PUERTO RICO PORTS AUTHORITY

X63 REGIONAL AIRPORT / HURRICANE MARIA DISASTER RELIEF (DR-4339-PR)
PROJECT #85447 / MPPA057 HUMACAO REGIONAL AIRPORT
DR. HERMENEGILDO ORTIZ QUIÑONEZ AIRPORT, HUMACAO, PR

BID NO. 1-56

ADDENDUM NO. 4

TO ALL BIDDERS:

This addendum forms part of the Project Manual for Bid No. 1-56. Acknowledge receipt of this Addendum in the space provided on the bid proposal form. Failure to do so may subject Bidder to disqualification.

A. GENERAL – RESPONSE TO REQUESTS FOR FURTHER INFORMATION (RFI's) SUBMITTED BY BIDDERS

1. Enclosed find a copy of the Letter from LOA Ingenieros CSP, the architectural and engineering contractor for this project, with ALL the answers and/or clarifications to various Requests for Further Information (RFI) submitted by Bidders for Bid 1-56. These revisions are dated October 22, 2025, for the Humacao Regional Airport project, Dr. Hermenegildo Ortiz Quiñonez (X63), Humacao, PR. See Attachment 1.
2. It is important to state that the PROPOSAL FORM for this Bid was revised and updated. The Proposal Form included in this Addendum No. 4 replaces in its entirety the one submitted with the original Project Manual. Please replace the document accordingly.

END OF ADDENDUM NO. 4

RIP

Romel Pedraza, PE
Assistant Executive Director
Planning, Engineering, Construction
& Environmental Affairs

October 22, 2025
San Juan, PR

ADDENDUM NO. 4

Attachment 1

October 22, 2025

Mr. Romel Pedraza-Claudio, PE
Assistant Executive Director for
Planning, Engineering and Construction
Attention: Mr. Roberto Rivera Medina
Engineering Bureau
Puerto Rico Ports Authority
64 Lindbergh Street
San Juan, Puerto Rico 00907

200400090

PUERTO RICO PORTS AUTHORITY (000-UEYUL-00)
ARCHITECTURAL AND ENGINEERING DESIGN SERVICES
HURRICANE MARÍA DISASTER RECOVERY-SECTOR 7

RE: PROJECT #85447/MPPA057-HUMACAO REGIONAL AIRPORT (HUC)
RESPONSE TO RFIs

Dear Mr. Rivera:

We are submitting for your action the documents listed in the attachment. Please notify proposers.

Should you have any questions or need further information, you may me contact me at lortiz@loaingenieros.com or mobile 787-382-7782.

Cordially,

Ladislao Ortiz, M., PE
LOA Ingenieros, CSP

LO/JL

Enclosures (3)

c: E. Miranda-Gvelop
W. Amaro-Gvelop

PUERTO RICO PORTS AUTHORITY (000-UEYUL-00)
ARCHITECTURAL AND ENGINEERING DESIGN SERVICES
HURRICANE MARÍA DISASTER RECOVERY-SECTOR 7
PROJECT #85447/MPPA057-HUMACAO REGIONAL AIRPORT (HUC)

BID NO. 1-56 REVISED BIDDING DOCUMENTS (22-OCT-2025)

DOCUMENT	No. of Pages
1. Response to Questions	6
2. Instruction to Bidders, Page IB-12	1
3. Technical Specification, Section 074113.16 - Standing-Seam Metal Roof Panels	8
4. Proposal Form	24
5. Revised Plans	13

END OF DOCUMENT

BID- 1.56
FOR
CONSTRUCTION SERVICES
TO RECOVERY PROJECTS
UNDER THE
FEMA PUBLIC ASSISTANCE PROGRAM FOR DISASTER
DR-4339-PR (Humacao Regional Airport (HUC) Humacao)

Answers to Questions and Requests for Clarifications				
No.	**Question**	**Proposer**	**Submission Date**	**Answer**
1	Específicamente el documento identificado como "DBE/ACDBE Certification of Good Faith Efforts entiendo que ese documento tal vez aplicaría para el contratista agraciado ya que contiene las palabras "I am" y "contractor selected for the PRPA project listed below"	Enviro-Tab, Inc.	10/1/25	Although its wording is for a selected contractor, the form shall be completed.
2	Favor confirmar si el contrato es lump sum por la totalidad del trabajo, o si será por "unit price" según desglosado en el breakdown.	GVG Builders	10/8/25	Yes, the total project cost is lump sum. However, the funds provider requires the PRPA to itemize the project cost in pay items.
3	Para las facilidades temporeras solicitadas, asumimos que la APPR costeara el costo de las utilidades de ambos vagones. Favor confirmar.	GVG Builders	10/8/25	No, unless otherwise instructed by PRPA. Refer to technical specifications, Section 015000-Temporary Facilities and Controls.
4	Favor proveer planos estructurales para los trabajos de concretos de los edificios. De no estar disponibles, y para poder tener uniformidad en las propuestas de los contratistas, favor de indicar cuantas yardas de concreto se deberán asumir para cada estructura.	GVG Builders	10/8/25	Refer to Instruction Bidders, Article 16-Project Special Instructions, Section 16.2. The architectural drawings show dimensions to estimate concrete volumes.
5	Favor confirmar quien será responsable por el pago de costos de conexión, vía libre, y otros de las utilidades (Luma, AAA, etc.). De ser el contratista, sugerimos se establezca un allowance para esto.	GVG Builders	10/8/25	The PRPA has allocated money for Luma utility. PRASA utilities shall not be affected by the project. Refer to Instruction Bidders, Article 16-Project Special Instructions, Section 16.1 for Luma money allocation.
6	Favor proveer diseño y detalles para la remoción y reinstalación del Airfield Lights Voltage Regulator, además de su relocalización temporera y final.	GVG Builders	10/8/25	This item has been deleted from the scope of construction. The airfield lights voltage regulator will remain in place.
7	En la hoja C006 habla de re-localizar el Airfield Lights Voltage Regulator, pero la 1D-1.1 habla de demoler/remover. Por favor aclarar. De relocalizar favor de proveer detalles de los trabajos en específico y planos para esto. Además, las hojas ES-1.0 y 1E1.1 hablan de que se reemplazará el equipo completamente lo cual no concuerda. De reemplazarse favor proveer más detalles del nuevo equipo a cotizar.	GVG Builders	10/8/25	Sheet 1D-1.1 has been deleted from the set. The Airfield Lights Voltage Regulator will not be relocated. Contractor shall replace existing Airfield Light Voltage Regulator with new Airfield Lights Voltage Regulator, Model L-829, 15kW output, 20-amp output class, 240VAC 60Hz input voltage.
8	¿Las ventanas serán con celocitas en cristal o aluminio?	GVG Builders	10/8/25	The material of the louver windows is confirmed to be aluminum.

9	Hoja 1D1.1 habla de demoler los pozos sépticos existentes, pero la C005 habla de demolerlos, favor confirmar cual aplica.	GVG Builders	10/8/25	The same questions are addressed for both sheets. Clarify question. However, sheet 1D-1.1 has been deleted from the set of plans.
10	¿El nuevo Hanger Door para el hangar 2 será manual o eléctrico?	GVG Builders	10/8/25	It will be mechanical (manual).
11	En el hangar #3 existe una puerta a remover? O la nueva puerta solicitada en la 3/3A2.1 es en un hueco existente donde no hay puerta?	GVG Builders	10/8/25	In Hangar #3, the existing door will be maintained. The notes currently shown on the drawings correspond to the doors of Hangar #2. This will be corrected in the drawings. An alternate door option was proposed for Hangar #2, and this will be included in the revised notes.
12	¿Encontramos discrepancias entre el Lighting Schedule en las hojas arquitectónicas y las eléctricas, cual domina?	GVG Builders	10/8/25	Refer to General Notes 16 and 17 in sheet GR-003.
13	En el artículo 16.3 del Project Manual habla de un baño nuevo para el hangar H2. De ser requerido favor proveer detalles para el mismo.	GVG Builders	10/8/25	Bathroom and plumbing services (i.e., water sewage) have been deleted from scope. Refer to Instruction to Bidders, revised page IB-12 attached.
14	Favor confirmar que APPR ya tiene permisos para construcción, y el contratista sólo levantará el permiso de construcción según APPR lo tenga ya aprobado. Además, favor confirmar que el contratista sólo proveerá los diseños estructurales según indicados.	GVG Builders	10/8/25	No, it does not. Contractor will provide signed and sealed structural designs in conformity with PR Building Codes-2018 and the Joint Regulation requirements including Special Electronic Stamps as appropriate. The PRPA will file for the construction permit upon receipt of Specialist Certification, EDE (Special Digital Stamps) and proof of CIAPR/CAAPR membership with engineer or architect valid certificate.
15	¿Cuánto es el tiempo de diseño y construcción? ¿El tiempo de permisos será tomado en consideración dentro de este tiempo o será aparte? De ser incluido en este tiempo, favor confirmar cuántos días serían separados para el proceso de permisos.	GVG Builders	10/8/25	Time will remain unchanged.
16	El plano no marca pavement markings excepto en el estacionamiento. Pero el bid form tiene 925 lm. Por favor aclarar.	GVG Builders	10/8/25	Sheets C-004 and C-007 have been revised showing limit of pavement markings.

17	Muchas de las partidas y cantidades en el proposal form no guardan proporción con lo mostrado en los planos. Por ejemplo, en aceras nosotros calculamos mucho más de 90 sm, en encintados mucho menos de 155 lm, en seeding tenemos mucho más de 540 sm, las lámparas no cuadran (si nos dejamos llevar por la hoja eléctrica), la partida de Accoustic Tiles esta repetida varias veces, la cantidad de railings es menor a la indicada, la partida de Wall Tile esta repetida, Baby Changing station hay 1 solo no 3 como indica el bid form, Soap Disp. hay solo 3 no 5, LED Mirror son 2 no 1, no entendemos a que se refiere la partida SS-1 Solid Surface (27 EA), el bid form tiene 1 televisor y un mobiliario que no aparece en los planos, las cantidades de concretos no concuerdan (ejemplo hay 156 cy para parapetos), Overflow Drains el plano solo indica 1, no entendemos a que se refiere la partida 91 Adjustments to Prepa, Postes de 45ft entendemos que hay solo 8 no 9, los PREPA Distribution Standards no necesariamente concuerdan/aplican al igual que la cantidad de cablería, el item 108 de Power Substation no se indica en los planos, no vemos partida para los trabajos en los hangares 2 (estabilización,	GVG Builders	10/8/25	Quantities were verified and Proposal Form updated.
18	We would like to formally request an extension of the proposal's submission deadline to allow additional time for our suppliers to provide the necessary quotes required to complete our submission.	SLSCO LTD (SLSCO, LLP)	10/10/25	Dates in Advertisement for Bid will remain unchanged.
19	In the set of construction drawings, there are no plumbing drawings. Please provide.	SLSCO LTD (SLSCO, LLP)	10/10/25	Plumbing plans for Terminal Building are included. Hangar 2 does not have plumbing Scope of Work.
20	In the set of construction drawings, there are no HVAC drawings. Please provide.	SLSCO LTD (SLSCO, LLP)	10/10/25	HVAC plans for Terminal Building are included.
21	In the set of construction drawings, there are no structural drawings. Please provide.	SLSCO LTD (SLSCO, LLP)	10/10/25	Refer to Instruction Bidders, Article 16-Project Special Instructions, Section 16.2.
22	In the set of construction drawings, the civil engineering drawings do not show the soils improvement design as described in the soils report and on sheet C-007 which recommends a mat foundation over a reinforced granular mattress for both new buildings. Please provide the soils improvement design of the foundations of both buildings	SLSCO LTD (SLSCO, LLP)	10/10/25	The soil improvements are shown in sections A and B for each structure in Sheet C-007 with the aggregate layers, thickness and type of reinforcement as recommended in the geotechnical report. The contractor shall submit to PRPA products and materials information for review and approval.

23	The architectural drawings show that the new Terminal Bldg. will be constructed using Structural Concrete Insulated Panels (SCIP) and a “Technical Manual & Installation Guide” for this system is provided in the project manual. However, some of the architectural plans (and all of the structural plans since they are currently nonexistent) lack details specific to this project. Please provide coordinated architectural and structural details necessary to build this project.	SLSCO LTD (SLSCO, LLP)	10/10/25	Refer to Instruction Bidders, Article 16-Project Special Instructions, Section 16.2.
24	Spec section 74113.16 (standing seam metal roof panels) to be used on the new hangar building has conflicting information concerning thickness of panel. Please verify gauge of roof panel and specify the desired roof panel.	SLSCO LTD (SLSCO, LLP)	10/10/25	The specified roof system for the new hangar building — including both the roof and the wall assemblies — shall consist of PAC-CLAD’s Precision Series HWP (High Wind Panel), or approved equal, fabricated from 22-gauge G-90 galvanized steel with a smooth finish, with clip installation and 16-inch on-center profile in Hemlock Green. This panel system has been selected for use across both roof and wall surfaces to ensure material consistency, architectural uniformity, and superior performance under the high wind load and weather exposure conditions of the project site.
24	We do not see the specification for the metal wall system (exterior wall) for the hangar building in the specifications or drawings. Please verify the desired wall panel and gauge.	SLSCO LTD (SLSCO, LLP)	10/10/25	Refer to Response No. 24, where it is confirmed that the roof and wall assemblies will be constructed using the same material.
25	Please clarify the structural HSS members used in the railing and guardrail design on sheet 1A-5.2. The specified HSS sizes of 1” x 4” and ½” x 3” are not standard dimensions.	SLSCO LTD (SLSCO, LLP)	10/10/25	Due to observations received during the bidding phase, it is specified that the handrails shall be fabricated from aluminum, using 6061/T1 rectangular tube profiles with a thickness of 1/8”, dimensions of 1” x 3” for general frame and 1” x 2” for vertical elements. The material and dimensions shall comply with applicable tolerances and standards to ensure structural strength and durability.
26	Please provide a specification section for the hangar doors shown on the plans (hangers 2 and 3). The only specification provided for specialty doors is for “Overhead Sectional Doors” which will be used at the terminal bldg.	SLSCO LTD (SLSCO, LLP)	10/10/25	Clarification Note: Please be advised that Hangar 3 is not included within the scope of the hangar door replacement work. As an alternative to the existing door at Hangar 2, the PowerLift Hydraulic Doors system is proposed, with dimensions of 42′ x 16, manufactured by PowerLift Door, or approved equal. The relevant sheet will be reviewed in detail to verify and clarify any potential confusion regarding the scope, ensuring that the documentation accurately reflects the buildings and elements included in the project.

27	Because of the curved roof at hangar 3, using an overhead sectional door is not practical. But for new building 2, can an alternate be an overhead sectional door in lieu of the folding panel doors as shown on sheet 2A-3.1?	SLSCO LTD (SLSCO, LLP)	10/10/25	The type of hangar shown (arch and gable) are for illustration of the options available locally that the contractor may opt. As well, the contractor may select other types of doors if it complies with the minimum opening dimensions and the Puerto Rico Building Codes-2018. The products shall be submitted to the PRPA for review and approval.
28	South Elevation on sheet 3A-2.1 indicates the new hangar doors. Please provide more information about how the doors will open, stack, etc. Please include overall dimensions of each door leaf as shown. Is the architect open to suggestions as per the hangar door	SLSCO LTD (SLSCO, LLP)	10/10/25	For this hangar #3, the existing doors shall remain. An alternative option for the hangar doors was added specifically for Hangar 2. These notes are under review and will be corrected and included in the appropriate location in the drawing sheets.
29	Please provide specifications for the signage that needs to be replaced or included in the design including the lettering on the Building's Front Facade.	SLSCO LTD (SLSCO, LLP)	10/10/25	Site signage is included in sheet C-009. The building's front signage shall consist of individual letters fabricated from painted aluminum, with the typeface Bahnschrift Light. The letters shall have a matte black finish and a height of 7 inches. Each letter shall be mounted 1 inch away from the wall, maintaining a uniform spacing to create a floating shadow effect. This mounting shall be achieved using spacers or stud-mounted pins with bushings. The fastening system must ensure long-term durability, resistance to corrosion (especially in coastal environments), and must be concealed or minimally visible from the front. The final installation shall align with the architectural intent and comply with local building codes and the applicable wind-load requirements.
30	The lighting schedule in the Architectural Drawings and the lighting schedule in the Electrical drawings don't match. Which Schedule should we use to quote?	SLSCO LTD (SLSCO, LLP)	10/10/25	Refer to General Notes 16 and 17 in sheet GR-003.
31	Please confirm if the Repairs for the Existing Hangars will include Paint and or Weatherproofing.	SLSCO LTD (SLSCO, LLP)	10/10/25	Repair work for the existing hangars shall include painting only; no weatherproofing measures are included as part of this scope.
32	Please provide hardware schedule for Doors.	SLSCO LTD (SLSCO, LLP)	10/10/25	Door hardware specifications have been added.
33	Could not find the electrical design for the Lightning Suppression System on the Roof of the Terminal Building. Please provide.	SLSCO LTD (SLSCO, LLP)	10/10/25	An allowance has been allocated for lightning protection.
34	Provide copy of electrical drawings endorsed by LUMA.	SLSCO LTD (SLSCO, LLP)	10/10/25	At the present, the project is under review by Luma.

35	Provide design for the Solar Panel mounting Brackets.	SLSCO LTD (SLSCO, LLP)	10/10/25	The PV system shall be considered as part of the structural design. Refer to Instruction Bidders, Article 16-Project Special Instructions, Section 16.2.
36	Since the terminal building is SCIP, will there be additional insulation required?	SLSCO LTD (SLSCO, LLP)	10/10/25	In addition to the SCIP system, no other type of insulation is required for the building.
37	The two hanger door manufacturers mentioned on the drawings are based in the UK. Since this job is “Buy American” will the contractor be allowed to purchase from them?	SLSCO LTD (SLSCO, LLP)	10/10/25	The products allowed for this project must strictly comply with the “Buy American” requirements. In accordance with this mandate, an alternate product is presented that meets the expected quality and performance standards. To replace the initially proposed product, the PowerLift Hydraulic Doors system is proposed, with dimensions of 42′ x 16, manufactured by PowerLift Door, or approved equal. Installation of the alternate product shall be carried out in accordance with the manufacturer’s recommendations, ensuring compliance with local building codes, safety requirements, and project specifications. Additionally, compatibility with existing systems shall be verified to ensure integrated and efficient operation.
38	Please provide the weight of the airplane that will be housed in New hangar 2.	SLSCO LTD (SLSCO, LLP)	10/10/25	Use FAA ADG I aircraft for design.

5	Financial Capacity	The Bidder demonstrated that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means sufficient to meet the construction cash flow requirements for a minimal amount of: $1,000,000.		
6	Past Performance	The Prime Contractor does not have any default, or unjustified delays in meeting completion date on previous projects. Failure to disclose information will result in rejection of the bids.		

ARTICLE 16 – PROJECT SPECIAL INSTRUCTIONS

16.1 A money allocation is available for Luma connection fees and other charges such as temporary service interruption (*vía libre*). The PRPA will reimburse to the contractor expenses incurred upon presentation of invoices issued by Luma. No profit or overhead under this pay item will be reimbursed.

16.2 The material proposed for the new terminal building is novel construction, of concrete and structural concrete insulated panels (SCIP) or similar product available by manufacturers and suppliers in Puerto Rico. The Proposer shall consider in its proposal the cost of structural design of this building by a licensed architect or licensed engineer in Puerto Rico. The geotechnical report for this project is available and is made part of this manual.

16.3 Hangar H-2 is pre-engineered and prefabricated galvanized steel roof & walls building similar to the suggested types shown in the drawings. The proposed building shall include a large door to fit a small aircraft with the dimensions shown in the plans and at least one (1) door for a person to access the building from the outside. In addition, this item shall consider the footing slab, lighting, electrical distribution; ~~one (1) bathroom with water closet and sink; domestic sewer connection to the existing septic tank and the plumbing of the bathroom for future water service.~~ The design of this building shall be certified by a licensed architect or licensed engineer in Puerto Rico.

16.4 The Proposer shall consider in the cost proposal the certifications of design documents (plans, specifications and specialist certification form) and the Special Digital Stamp (EDE in its Spanish acronym) from the *Colegio de Ingenieros y Agrimensores de Puerto Rico* items 16.1 and 16.2 in compliance with Puerto Rico Joint Regulation for the Evaluation and Issuance of Permits Related to Development, Land Use and Business Operations (Joint Regulation) and Puerto Rico Building Codes (2018 or latest issue). The PRPA will review that the design is in line with their intention on the type of building construction and that the design documents follow regulations and building codes. Upon completion reviewing of all documents, the PRPA will file for and will obtain the construction permit for the works.

SECTION 074113.16 - STANDING-SEAM METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Standing-seam metal roof panels.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.

C. Samples: For each type of metal panel indicated.

1.3 INFORMATIONAL SUBMITTALS

A. Product test reports.

B. Warranties: Sample of special warranties.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by the manufacturer.

B. UL-Certified, Portable Roll-Forming Equipment: UL-certified, portable roll-forming equipment capable of producing metal panels warranted by manufacturer to be the same as factory-formed products. Maintain UL certification of portable roll-forming equipment for duration of work.

1.6 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.

1. Warranty Period: **Two** years from date of Substantial Completion.

B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Finish Warranty Period: **20** years from date of Substantial Completion.

C. Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain weathertight, including leaks, within specified warranty period.

1. Warranty Period: **20** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CLADDING SYSTEM / STANDING SEAM AND RELATED MATERIALS

A. Cladding System / Standing Seam:
Basis of Design Product: Subject to compliance with requirements, provide **Pac-Clad** products that meet the following specifications:
1- PRECISION SERIES WALL PANELS HWP (or approved equal) metal roof field-seamed panels.

B. Insulation:
Basis of Design Product: Subject to compliance with requirements, provide **Prodex.** Products that meet the following specifications:
2- **AD5 Reflective Thermal Insultation** (or approved equal) – Aluminum foil. Polyethyelene foam and aluminum foil.

2.2 PERFORMANCE REQUIREMENTS

A. Energy Performance: Provide roof panels that are listed on the EPA/DOE's ENERGY STAR "Roof Product List" for **low**-slope roof products.

B. Energy Performance: Provide roof panels according to one of the following when tested according to CRRC-1:

1. Three-year, aged solar reflectance of not less than **0.55** and emissivity of not less than **0.75**.
2. Three-year, aged Solar Reflectance Index of not less than **64** when calculated according to ASTM E1980.

C. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E1592:

1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: **As indicated on Drawings**.

D. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) when tested according to ASTM E1680 **or ASTM E283** at the following test-pressure difference:

1. Test-Pressure Difference: **6.24 lbf/sq. ft. (300 Pa)**.

E. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E1646 **or ASTM E331** at the following test-pressure difference:

1. Test-Pressure Difference: **6.24 lbf/sq. ft. (300 Pa)**.

F. Hydrostatic-Head Resistance: No water penetration when tested according to ASTM E2140.

G. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.

1. Uplift Rating: **UL 90**.

H. FM Global Listing: Provide metal roof panels and component materials that comply with requirements in FM Global 4471 as part of a panel roofing system and that are listed in FM Global's "Approval Guide" for Class 1 or noncombustible construction, as applicable. Identify materials with FM Global markings.

1. Fire/Windstorm Classification: Class 1A-**120**.
2. Hail Resistance: **MH**.

I. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): **120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces**.

2.3 STANDING-SEAM / METAL ROOF PANELS

A. Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.

1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E1514.

B. The **Precision Series Wall Panels** are **concealed-fastener metal wall systems** engineered for high performance and refined architectural expression. Fabricated from **G90 galvanized steel**, the panels deliver outstanding structural rigidity, corrosion resistance, and long-term durability in both exterior and interior applications.

Designed for **horizontal or vertical installation**, the system features **factory-formed interlocking joints** that provide a continuous, uniform surface while allowing for controlled

thermal movement and superior weather resistance. Precision engineering ensures consistent panel alignment and tight joint tolerances.

Panels are available in **flat, ribbed, and reveal profiles** to accommodate a wide range of design aesthetics and functional requirements. Finishes include **Kynar 500®/Hylar 5000® PVDF coatings**, offering exceptional color retention and resistance to UV degradation, chalking, and fading.

C.

1. Basis of Design: **PRECISION SERIES WALL PANELS by Pac-Clad.**
2. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A653/A653M, G90 (Z275) coating designation. Prepainted by the coil-coating process to comply with ASTM A755/A755M.

    a. Nominal Thickness: **22 gauge**
    b. Exterior Finish: **Two-coat fluoropolymer**.
    c. Color: **As selected by Architect from manufacturer's full range**.

3. Clips: **Two-piece floating** to accommodate thermal movement.

    a. Material: **0.064-inch- (1.63-mm-)** nominal thickness, zinc-coated (galvanized) or aluminum-zinc alloy-coated steel sheet.

4. Joint Type: **Double folded**.
5. Panel Coverage: **16 inches (406 mm)**.
6. Panel Height: **7/8 inches (22 mm)**.

2.4 UNDERLAYMENT MATERIALS

Self-adhering, high-temperature underlayment may be applied only at eaves, valleys, and other areas vulnerable to leakage, with felt applied over the remainder of the roof; or underlayment may be applied over the entire roof area.

A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils (0.76 mm) thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.

1. Thermal Stability: Stable after testing at 240 deg F (116 deg C); ASTM D1970.
2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F (29 deg C); ASTM D1970.

If not using self-adhering, high-temperature underlayment over the entire roof area.

B. Felt Underlayment: ASTM D226/D226M, Type II (No. 30), asphalt-saturated organic felts.

Slip Sheets can be used to separate metal roof panels from underlayment if required by manufacturer.

C. Slip Sheet: Manufacturer's recommended slip sheet, of type required for application.

2.5 ROOF INSULATION

Shall consist of one (or more) reflective thermal insulation base layer(s) inserted between the substrate below and the standing seam metal roofing above. It shall be provided in the thicknesses and taper required to achieve an "R" value of 20 and complying with:

A. Reflective Thermal Insulation Layer:

Basis of Design Product: Subject to compliance with requirements, provide **Prodex** products that meet the following specifications (Other products may be submitted for approval):

1. Product: AD5 (or approved equal) – Aluminum foil. Polyethyelene foam and aluminum foil.
2.Thickness: 0.19" thickness, total thickness to meet specified insulation system thermal resistance 'R' value.
3. Dimensions: 4' x 4' boards, as per manufacturer's recommendations for system.
4. Meets or exceeds ASTM C1224 for corrosiveness, pliability, humidity resistance and operating temperatures.
5. Meets or exceeds ASTM C1338 for resistance to mold growth.

2.6 MISCELLANEOUS MATERIALS

A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, ASTM A653/A653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A792/A792M, Class AZ50 (Class AZM150) coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.

B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.

1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.

C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.

D. Gutters and Downspouts: Formed from same material as roof panels according to SMACNA's "Architectural Sheet Metal Manual." Finish to match **metal roof panels** and **roof fascia and rake trim**.

E. Roof Curbs: Fabricated from same material as roof panels, **0.048-inch (1.2-mm)** nominal thickness; with bottom of skirt profiled to match roof panel profiles and with welded top box and integral full-length cricket. Fabricate curb subframing of 0.060-inch- (1.52-mm-) nominal thickness, angle-, C-, or Z-shaped steel sheet. Fabricate curb and subframing to withstand indicated loads of size and height indicated. Finish roof curbs to match metal roof panels.

F. Panel Fasteners: Self-tapping screws designed to withstand design loads.

G. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.

1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
2. Joint Sealant: ASTM C920; as recommended in writing by metal panel manufacturer.
3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.7 FABRICATION

A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.

B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.

C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.

D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.

E. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

2.8 FINISHES

A. Panels and Accessories:

1. Two-Coat Fluoropolymer: [**AAMA 621**] [**AAMA 2605**]. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in both color coat and clear topcoat.
2. Concealed Finish: White or light-colored acrylic or polyester backer finish.

PART 3 - EXECUTION

3.1 PREPARATION

A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C754 and metal panel manufacturer's written recommendations.

3.2 INSTALLATION OF UNDERLAYMENT

A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated **below**, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 3-1/2 inches (90 mm). **Extend underlayment into gutter trough.** Roll laps with roller. Cover underlayment within 14 days.

1. Apply over the entire roof surface.

    a. Roof perimeter for a distance up from eaves of **36 inches (914 mm)** beyond interior wall line.
    b. Valleys, from lowest point to highest point, for a distance on each side of **18 inches (460 mm)**. Overlap ends of sheets not less than 6 inches (152 mm).
    c. Rake edges for a distance of **18 inches (460 mm)**.
    d. Hips and ridges for a distance on each side of **12 inches (305 mm)**.
    e. Roof-to-wall intersections for a distance from wall of **18 inches (460 mm)**.
    f. Around dormers, chimneys, skylights, and other penetrating elements for a distance from element of **18 inches (460 mm)**.

B. Felt Underlayment: Apply at locations indicated **below**, in shingle fashion to shed water, and with lapped joints of not less than 2 inches (50 mm).

1. Apply over the entire roof surface.

C. Slip Sheet: Apply slip sheet over underlayment before installing metal roof panels.

D. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

3.3 INSTALLATION OF STANDING SEAM METAL ROOF PANELS

A. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.

1. Install clips to supports with self-tapping fasteners.
2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
3. Seamed Joint: Crimp standing seams with manufacturer-approved, motorized seamer tool so clip, metal roof panel, and factory-applied sealant are completely engaged.
4. Watertight Installation:

    a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
    b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
    c. At panel splices, nest panels with minimum 6-inch (152-mm) end lap, sealed with sealant and fastened together by interlocking clamping plates.

B. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.

C. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

3.4 CLEANING AND PROTECTION

A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.

END OF SECTION 074113.16

GOVERNMENT OF PUERTO RICO
PUERTO RICO PORTS AUTHORITY

PUERTO RICO HURRICANE MARÍA DISASTER RELIEF (DR-4339-PR)
PROJECT #85447/MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

BID NO. 1-56

PROPOSAL

_____, 2025

Executive Director
Puerto Rico Ports Authority
PO Box 362829
San Juan, Puerto Rico 00936-2829

The undersigned (hereinafter called "Bidder") in compliance with your invitation for bids of the construction project, Puerto Rico Hurricane María Disaster Relief (DR-4339-PR), Project #85447/MPPA057 Humacao Regional Airport (HUC), Humacao, Puerto Rico, having examined the plans, specifications and related documents, the site of the proposed work, and being familiar with all the conditions surrounding the construction of the proposed project, including the availability of materials and labor, hereby proposes to furnish all labor, materials, equipment and supplies, and to construct the project in accordance with the Contract Documents, within the time set forth, and for the following lump sum:

_____ dollars ($_____.____).

The Bidder presents the breakdown below with approximate quantities for the purpose of the comparison of bids.

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
1	G-1.1	**MOBILIZATION (NOT TO EXCEED 10% OF TOTAL BID AMOUNT)** _____ _____ _____ *(Price in Words)*	LS	1		
2	G-1.2	**SAFETY, SECURITY, AND MAINTENANCE OF AIRPORT OPERATION** _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
3	G-1.3	**MUNICIPAL TAX AND PATENTS (SUM OF ITEMS 1-117 MULTIPLIED BY 0.06) WILL BE PAID AS PER INVOICE** _____ _____ _____ *(Price in Words)*	LS	1		
4	G-2.1	**CONSTRUCTION SURVEY** _____ _____ _____ *(Price in Words)*	LS	1		
5	G-2.2	**TEMPORARY AIR AND WATER POLLUTION, SOIL EROSION, AND SILTATION CONTROL** _____ _____ _____ *(Price in Words)*	LS	1		
6	G-2.3	**MAINTENANCE AND PROTECTION OF TRAFFIC** _____ _____ _____ *(Price in Words)*	LS	1		
7	C-1.1	**SITE CLEARING** (approx. 769 SqM) _____ _____ _____ *(Price in Words)*	LS	1		
8	C-1.2	**DEMOLITION** _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
9	C-1.3	**MAIN TERMINAL AND HANGAR 2 EARTH FILL AND EMBANKMENT STABILIZATION** _____ _____ _____ *(Price in Words)*	LS	1		
10	C-2.1	**AGGREGATE BASE COURSE** (approx. 9 CuM) _____ _____ _____ *(Price in Words)*	LS	1		
11	C-2.2	**LEAN CONCRETE BASE** (approx. 8 SqM) _____ _____ _____ *(Price in Words)*	LS	1		
12	C-2.3	**HOT PLANT-MIX BITUMINOUS PAVEMENT** (approx. 430 TON) _____ _____ _____ *(Price in Words)*	LS	1		
13	C-2.4	**FULL DEPTH REMOVAL OF BITUMINOUS PAVEMENT** (approx. 7 CuM) _____ _____ _____ *(Price in Words)*	LS	1		
14	C-2.5	**2" (0.05 MTS.) COLD MILLING OF BITUMINOUS CONCRETE PAVEMENT** (approx. 3,136 SqM) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
15	C-3.1	**CHAIN-LINK FENCE, TYPE-B** (approx. 32 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
16	C-3.2	**CHAIN-LINK GATE, TYPE-B, ONE LEAF, WIDTH= 6.0 FT.** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
17	C-3.2	**CHAIN-LINK GATE, TYPE-B, TWO LEAVES, WIDTH= 14.0 FT.** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
18	C-3.3	**CONCRETE SIDEWALK** (approx. 170 SqM) _____ _____ _____ *(Price in Words)*	LS	1		
19	C-3.4	**CONCRETE CURB, TYPE D** (approx. 155 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
20	C-3.5	**RECONSTRUCTION OF CONCRETE SHALLOW GUTTER** (approx. 22 LnM) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
21	C-3.7	**TACTILE WARNING SURFACING** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
22	C-4.1	**TOPSOIL** (approx. 17 CuM) _____ _____ _____ *(Price in Words)*	LS	1		
23	C-4.2	**SEEDING (HYDROSEEDING)** (approx. 540 SqM) _____ _____ _____ *(Price in Words)*	LS	1		
24	C-4.3	**SODDING (*ZOYSA MANILA*)** (approx. 85 SqM) _____ _____ _____ *(Price in Words)*	LS	1		
25	C-5.1	**TRAFFIC SIGNS** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
26	C-5.2	**THERMOPLASTIC PAVEMENT MARKINGS STRIPE, WHITE** approx. 925 LnM) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
27	C-5.3	**PAINTED PAVEMENT MARKINGS** (approx. 130 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
28	SCP-01	**EXTERIOR AND INTERIOR STRUCTURAL CONCRETE INSULATED PANELS (SCIP) WALLS** (approx. 86 CuY) _____ _____ _____ *(Price in Words)*	LS	1		
29	C-01	**CONCRETE WORKS** (approx. 86 CuY) _____ _____ _____ *(Price in Words)*	LS	1		
30	AL-01	**WINDOW W/ TYPE MARK 1** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
31	AL-02	**WINDOW W/ TYPE MARK 2** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
32	AL-03	**WINDOW W/ TYPE MARK 3** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
33	AL-04	**WINDOW W/ TYPE MARK 4** (approx. 6 EA) _____ _____ _____ *(Price in Words)*	LS	1		
34	AL-05	**DOOR W/ TYPE MARK 1** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
35	AL-06	**DOOR W/ TYPE MARK 2** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
36	AL-07	**DOOR W/ TYPE MARK 3** (approx. 4 EA) _____ _____ _____ *(Price in Words)*	LS	1		
37	AL-08	**DOOR W/ TYPE MARK 4** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
38	AL-09	**DOOR W/ TYPE MARK 5** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
39	AL-10	**DOOR W/ TYPE MARK 6** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
40	DS-01	**ALUMINUM THRESHOLD 6'- 3" x 4"** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
41	DS-02	**ALUMINUM THRESHOLD 3'- 4" x 7"** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
42	DS-03	**MARBLE SADDLE 3'-4"X 7"** (approx. 7 EA) _____ _____ _____ *(Price in Words)*	LS	1		
43	STL-01	**STEEL GUARDRAIL+HANDRAIL** (approx. 85b LF) _____ _____ _____ *(Price in Words)*	LS	1		
44	AC-01	**ACOUSTIC TILES** (approx. 214 SF) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
45	L-01	**LIGHTING FIXTURE MARK L-1** (approx. 10 EA) _____ _____ _____ *(Price in Words)*	LS	1		
46	L-02	**LIGHTING FIXTURE MARK L-2** (approx. 19 EA) _____ _____ _____ *(Price in Words)*	LS	1		
47	L-03	**LIGHTING FIXTURE MARK L-3** (approx. 16 EA) _____ _____ _____ *(Price in Words)*	LS	1		
48	L-04	**LIGHTING FIXTURE MARK L-4** (approx. 5 EA) _____ _____ _____ *(Price in Words)*	LS	1		
49	L-05	**EMERGENCY LIGHTING FIXTURE MARK EM-1** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
50	L-06	**EMERGENCY LIGHTING FIXTURE MARK EM-2** (approx. 4 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
51	L-08	**EXIT LIGHTING FIXTURE MARK EX-1** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
52	L-07	**CEILING FAN W/ TYPE MARK CF-1** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
53	SCP-01	**EXTERIOR AND INTERIOR SCIP WALLS** (approx. 92 CY) _____ _____ _____ *(Price in Words)*	LS	1		
54	P-01	**EXTERIOR AND INTERIOR PAINT** (approx. 10,709 SF) _____ _____ _____ *(Price in Words)*	LS	1		
55	GB-01	**GYPSUM WALLBOARD CEILING** (approx. 125 SF) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
56	WT-01	**WALL TILE W/ TYPE MARK WT-1** (approx. 630 SF) _____ _____ _____ *(Price in Words)*	LS	1		
57	P-01	**EXTERIOR AND INTERIOR PAINT** (approx. 10,709 SF) _____ _____ _____ *(Price in Words)*	LS	1		
58	AC-01	**ACCOUSTIC TILES** (approx. 214 SF) _____ _____ _____ *(Price in Words)*	LS	1		
59	GB-01	**GYPSUM WALLBOARD CEILING** (approx. 125 SF) _____ _____ _____ *(Price in Words)*	LS	1		
60	WT-01	**WALL TILE W/ TYPE MARK WT-1** (approx. 630 SF) _____ _____ _____ *(Price in Words)*	LS	1		
61	WB-01	**WALL BASE W/ TYPE MARK WB-1** (approx. 310 LF) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
62	RF-01	**FLOOR MOUNTED TOILET** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
63	RF-02	**UNDER MOUNTED SINK** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
64	RF-03	**SINK FAUCET** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
65	RF-04	**BOTTLE TRAP** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
66	RF-05	**36" GRAB BAR** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
67	RF-06	**42" GRAB BAR** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
68	RF-07	**TOILET TISSUE DISPENSER** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
69	RF-08	**BABY CHANGING STATION** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
70	RF-09	**FOAM SOAP DISPENSER** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
71	RF-10	**WASTE RECEPTACLE** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
72	RF-11	**AUTOMATIC HAND DRYER** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		
73	RF-12	**LED BACKLIT MIRROR** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
74	RF-13	**TILT MIRROR W/ STAINLESS STEEL FRAME** (approx. 1 EA) _____ _____ *(Price in Words)*	LS	1		
75	SS-1	**SOLID SURFACE-SINK** (approx. 3 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
76	OE-02	**AIRPORT WAITING CHAIRS 2 BENCHES W/ 3 CHAIRS** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
77	OE-03	**METAL MESH SCREEN FOR AC UNIT** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
78	SIGN-01	**EXTERIOR SIGNAGE W/AIRPORT NAME** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
79	SIGN-02	**INTERIOR RESTROOMS SIGNAGES** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
80	R-01	**6" ROOF SLAB** (approx. 50 CY) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
81	R-02	**ROOF PARAPETS** (approx. 156 CY) _____ _____ _____ *(Price in Words)*	LS	1		
82	R-03	**METAL FLASHINGS** (approx. 209 LF) _____ _____ _____ *(Price in Words)*	LS	1		
83	R-04	**TPO ROOFING MEMBRANE** (approx. 2,556 SF) _____ _____ _____ *(Price in Words)*	LS	1		
84	R-05	**WALKING PATH** (approx. 511 SF) _____ _____ _____ *(Price in Words)*	LS	1		
85	R-06	**2" SCUPPER DRAINGE** (approx. 4 EA) _____ _____ _____ *(Price in Words)*	LS	1		
86	R-07	**OVERFLOW SCUPPER** (approx. 5 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
87	R-07	**LADDER FOR ROOF ACCESS** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
88	R-08	**ROOF HATCH** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
89	ES-01	**ADJUSTMENT OF PREPA/LUMA FACILITIES** _____ _____ _____ *(Price in Words)*	LS	1		
90	ES-02	**CONCRETE POLES, H4, 45 FT.** (approx. 9 EA) _____ _____ _____ *(Price in Words)*	LS	1		
91	ES-03	**CONCRETE POLES, H4, 40 FT.** (approx. 5 EA) _____ _____ _____ *(Price in Words)*	LS	1		
92	ES-04	**PREPA/LUMA DISTRIBUTION STANDARDS, CP-A6** (approx. 8 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
93	ES-05	**PREPA/LUMA DISTRIBUTION STANDARDS, E-1-2-3** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
94	ES-05	**PREPA/LUMA DISTRIBUTION STANDARDS, E-1-2-3** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
95	ES-06	**PREPA/LUMA DISTRIBUTION STANDARDS, F-1-3** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
96	ES-07	**PREPA/LUMA DISTRIBUTION STANDARDS, F-1-3** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
97	ES-08	**PREPA/LUMA DISTRIBUTION STANDARDS, K-5** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
98	ES-09	**PREPA/LUMA DISTRIBUTION STANDARDS, K-6** (approx. 8 EA) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
99	ES-10	**PREPA/LUMA DISTRIBUTION STANDARDS, K-7-2** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
100	ES-11	**PREPA/LUMA DISTRIBUTION STANDARDS, STL-10** (approx. 19 EA) _____ _____ _____ *(Price in Words)*	LS	1		
101	ES-12	**CONDUCTOR, #4/0 AWG, CU, XHHW-2, 600V** (approx. 111 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
102	ES-13	**CONDUCTOR, #4/0 AWG, CU, XHHW-2, 600V** (approx. 111 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
103	ES-14	**CONDUCTOR, #3/0 AWG, CU, XHHW-2, 600V** (approx. 126 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
104	ES-15	**CONDUCTOR, #6 AWG, CU, XHHW-2, 600V** (approx. 42 LnM) _____ _____ _____ *(Price in Words)*	LS	1		

Bid Item	Item No.	Item Description & Unit Price Bid In Words	Unit	Est. Quant.	Unit Price	Total Amount Per Item
105	ES-13	**CONDUIT, 3 IN. DIA, PVC SCH 40** (approx. 395 LnM) _____ _____ _____ *(Price in Words)*	LS	1		
106	ES-14	**POWER SUBSTATION, 37.5KVA, 1PH, 240/120V** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
107	ES-15	**REMOVAL OF LUMA EXISTING FACIL.** _____ _____ _____ *(Price in Words)*	LS	1		
108	ES-16	**30 KVA/240V EMERGENCY DIESEL GENERATOR W/ATS, BAT. CHGR. AND SUBBASE FUEL TANK** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
109	ES-18	**LUMA CONNECTION ALLOWANCE (**approx. 1 EA) ********** *NOT TO EXCEED* TEN THOUSAND DOLLARS ********** *(Price in Words)*	LS	1	$10,000.00	$10,000.00
110	1E-01	**MAIN TERMINAL BUILDING ELECTRICAL WORKS WITH DISTRIBUTION PANEL, METER SOCKET BOX AND LUMA CONN.** _____ _____ _____ *(Price in Words)*	LS	1		

111	1E-02	**MAIN TERMINAL PHOTOVOLTAIC PANELS SYSTEM, 22KW WITH INVERTER** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
112	1E-03	**MAIN TERMINAL BATTERY STORAGE, 13.5KWH** (approx. 2 EA) _____ _____ _____ *(Price in Words)*	LS	1		
113	1E-04	**MAIN TERMINAL BUILDING FIRE ALARM SYSTEM** (approx. 1 EA) _____ _____ _____ *(Price in Words)*	LS	1		
114	1E-04	**MAIN TERMINAL BUILDING TELECOMM. COUNDUITS AND ACCESSORIES** _____ _____ _____ *(Price in Words)*	LS	1		
115	2E-01	**HANGAR 2 ELECTRICAL WORKS W/DISTRIBUTION PANEL AND METER SOCKET BOX PEDESTAL** _____ _____ _____ *(Price in Words)*	LS	1		
116	2E-02	**AIRFIELD LIGHTS EQUIPMENT REPLACEMENT ALLOWANCE (**approx. 1 EA) ************* *NOT TO EXCEED* FIFTEEN THOUSAND DOLLARS ********************** *(Price in Words)*	LS	1	$15,000.00	$15,000.00

117	2E-03	**FURNISHING AND INSTALLING LIGHTNING PROTECTION SYSTEM** (approx. 1 EA) ********** *NOT TO EXCEED* TWENTY THOUSAND DOLLARS ********** *(Price in Words)*	LS	1	$20,000.00	$20,000.00

TOTAL BASE BID……. *(Shall include the SUM of all partial pricing, from item No. 1 to item No. 117, inclusive.)* **Write TOTAL BASE BID amount in words:** _____ _____ *(In case of discrepancy the amount shown in words shall govern.)*	$ _____

It is understood that the above total price is for the entire work as required by the Drawings and Technical Specifications, that the price include all labor, equipment, materials, taxes, bailing, incidental work, overhead, profit, insurance, etc. to cover the finished work of the several kinds called for under the Contract, of which this Proposal is part. If a portion of the work shown in the drawings does not have specific line item, include the costs in the most related item.
The Contractor (Bidder) irrevocably accepts that the contract cost in the base Proposal includes any and all overhead cost (job site, project fixed overhead, field office and extended main office overhead) and any profit that the Contractor may incur for up to forty-five (45) calendar days of delays caused by any act of the Owner. The Contractor waives any type of claim for the overhead incurred during that period.

Bidder hereby agrees to commence works under this contract on a date to be specified in written "Notice to Proceed" of PRPA and to fully complete all works within **three hundred sixty (360) consecutive calendar days** after written "Notice to Proceed" of the Puerto Rico Ports Authority.

Time for substantial completion shall be **two hundred sixty (260) consecutive calendar days** subject to any extension of time that may be granted, in accordance with Article 9.1.4 of the Uniform General Conditions. Date of substantial completion will be certificated by the Owner, when in the opinion of the Owner all Work is completed. Merely the eventual use or partial utilization of the areas by the Owner does not constitute substantial completion. Substantial completion will occur when the Owner's representative has certified that all components of the works including mechanical, electrical, plumbing, fire suppression, security and data systems are fully functional, and have been tested and accepted.

Bidder further agrees to pay as liquidated damages for the amount established in section 9.5 of the Uniform General Conditions base on the Bid Price for each calendar day that the project construction, included in the combination accepted by the owner, remains uncompleted after the time frame from the date of the order to proceed with the construction for each calendar thereafter as hereinafter provided in Section 9.4.1 of the Uniform General Conditions.

The cost bellow will be the project fixed overhead or field office cost to be reimbursed to the Contractor by the Owner due to time extensions, delays, or interruptions to the work caused by any act of the Owner in excess of thirty (30) calendar days, as per Uniform General Condition 9.3 Delays and Extension of Time.

Item	Description	Units	Unit Price
1a	****FIELD OFFICE / MAIN OFFICE EXTENDED OVERHEAD CAUSED BY DELAYS AND EXTENSION OF TIME BY THE OWNER As per Uniform General Condition 9.3 Delays and Extension of Time.**	Per Day	$ _____ *(Write Price in Words)* _____ _____

**Under no circumstance will the amount of Adjustment for Extended Overhead caused by delays and extension of time by the Owner will exceed the amount of liquidated damages as per section 9.5 of the Uniform General Conditions, Damages and amount calculated per Eichleay formula in accordance to Uniform General Condition 15.1.1.1.7.

The Bidder agrees that this bid shall be valid and may not be withdrawn for a period of one hundred eighty (180) calendar days after the scheduled closing time for receiving bids. Upon receipt of written notice of the acceptance of this bid, the Bidder will execute the formal contract included in the Contract Documents within ten (10) working days and deliver the required insurance and bonds specified in the General Conditions.
The Bidder acknowledges receipt of the following addenda:

Addendum No. _____ dated _____
Addendum No. _____ dated _____
Addendum No. _____ dated _____
Addendum No. _____ dated _____
Addendum No. _____ dated _____
Addendum No. _____ dated _____
Addendum No. _____ dated _____

The Bidder understands that the Puerto Rico Ports Authority reserves the right to reject any or all bids and to waive any informalities in the bidding process.

EQUAL OPPORTUNITY REPORT STATEMENT

(Complete the following statement by checking the appropriate boxes. Failure to complete these

boxes may be grounds for rejection of bid):

1. The Bidder has / / has not / / developed and has on file at each establishment affirmative action programs pursuant to 41 CFR 60-1.40 and 41 CFR 60-2.

2. The Bidder has / / has not / / participated in any previous contract or subcontract subject to the equal opportunity clause prescribed by Executive Order 11246, as amended.

3. The Bidder has / / has not / / filed with the Joint Reporting Committee the annual compliance report on Standard Form 100 (EE-1 Report).
4. The Bidder does / / does not / / employ fifty (50) or more employees.

CERTIFICATION OF NONSEGREGATED FACILITIES

By the submission of this bid, the Bidder, offer or, applicant, or subcontractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments and that he will not permit his employees to perform their services at any location under his control, where segregated facilities are maintained.

The Bidder, offer or, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specified time periods):

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR CERTIFICATIONS OF NONSEGREGATED FACILITIES

A certification of Non-segregated Facilities must be submitted prior to the award of a subcontract exceeding $10,000.00 which is not exempt from the provisions of the Equal Opportunity clause.

The certifications may be submitted either for each subcontract or for all subcontractors during a period (i.e., quarterly, semiannually, or annually).

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

The bid bond (five percent (5%) of the bid amount) will become property of the Puerto Rico Ports Authority in the event that the contract and bonds are not executed within the time set forth.

Respectfully submitted:

Name of Bidder
*(Corporation, Partnership, or Individual)

By:

Name of Authorized Officer

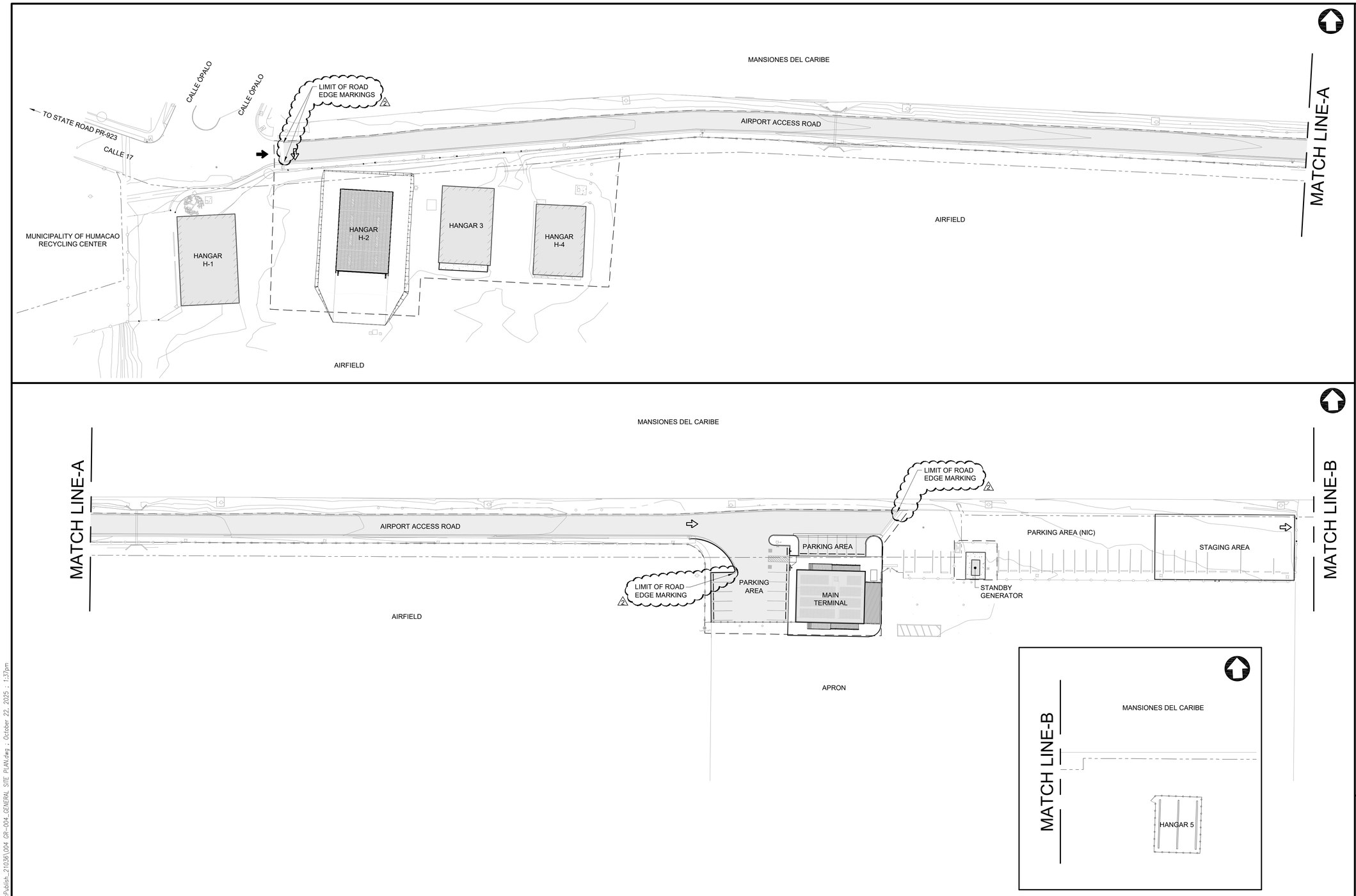
Address

Signature of Authorized Officer

Tel. No.:

Cell No.:

*(Seal – if bid is by a corporation)



LEGEND:

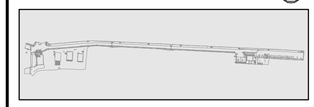
- PROPERTY LINE
- LIMIT OF PROJECT
- AIRPORT ENTRANCE
- CONSTRUCTION ACCESS

GRAPHIC SCALE

10 5 0 10 20

SCALE 1:500

KEY MAP



PUERTO RICO PORTS AUTHORITY ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN, ESQ. DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.
2	22-OCT-25	BID No. 1-56/REV. PER RFI	L.O.

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

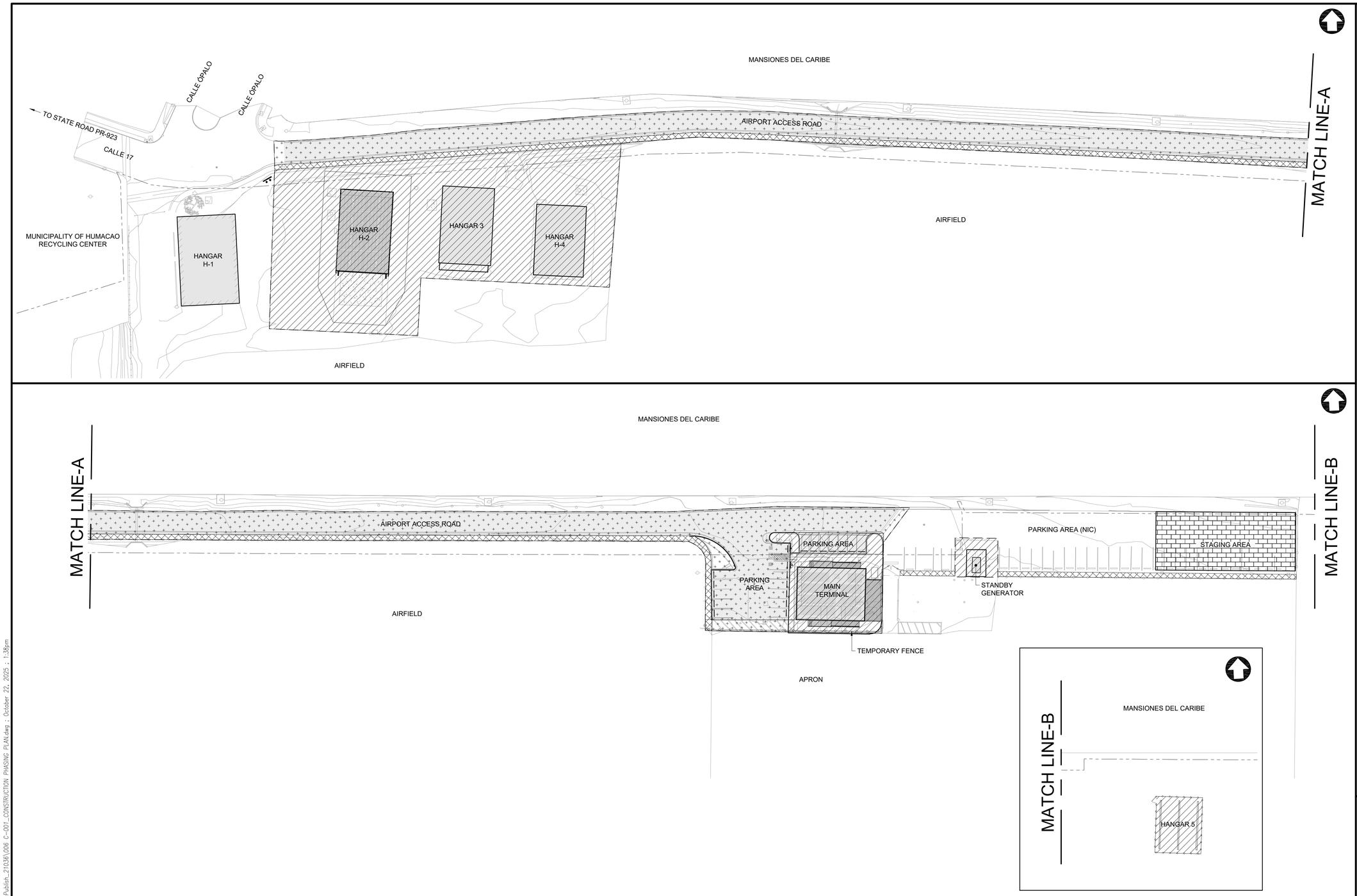
MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

GENERAL SITE PLAN

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:500 H V

SHEET NO.
GR-004

C:\Users\ladis\AppData\Local\Temp\AcPublish_21036\004 GR-004_GENERAL SITE PLAN.dwg ; October 22, 2025 ; 1:37pm



LEGEND:

- PROPERTY LINE
- LIMIT OF PROJECT
- TEMPORARY FENCE
- STAGING AREA (120FTX45FT)
- PHASE I
- PHASE II
- PHASE III
- PROJECT / PERMIT SIGN

NOTES:

1. THE SEQUENCE OF CONSTRUCTION ACTIVITIES ARE SUGGESTED. THE CONTRACTOR MAY VARY SEQUENCE UPON APPROVAL OF THE ENGINEER. PHASE I WILL ALWAYS INCLUDE MOBILIZATION AND PROJECT SETUP.
2. INSTALL PROJECT AND PERMIT SIGNS AT AIRPORT ENTRANCE AS SHOWN IN PLAN. COORDINATE EXACT LOCATION WITH ENGINEER.
3. COORDINATE LOCATION OF STAGING AREA WITH ENGINEER.

GENERAL CONSTRUCTION ACTIVITIES:

1. INSTALLING OF PROJECT AND PERMIT SIGNS.
2. INSTALLING OF SOIL EROSION AND SEDIMENT CONTROL MEASURES.
3. DEMOLITION IN ACCORDANCE WITH EACH PHASE ACTIVITIES.
4. INSTALLING OF TEMPORARY CONSTRUCTION FENCE.

PHASE I ACTIVITIES:

1. SITE WORK AND CONSTRUCTION OF NEW HANGAR H-2 AND NEW MAIN TERMINAL BUILDING.
2. REPAIRING WORKS OF HANGAR 3 AND HANGAR H-4.
3. CONSTRUCTION OF NEW CONCRETE PEDESTAL AND INSTALLATION OF NEW STANDBY POWER GENERATOR.
4. CONSTRUCTION OF NEW CONCRETE PEDESTAL FOR AIRFIELD LIGHTS VOLTAGE REGULATOR AND MIGRATION OF SYSTEM.
5. INSTALLING OF SECURITY PERIMETER FENCE FOR HANGAR 5 AREA.

PHASE II ACTIVITIES:

1. REPLACING OF LIGHT POLES AND POWER POLES WITH NEW.

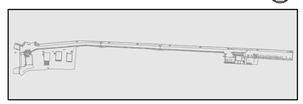
PHASE III ACTIVITIES:

1. INSTALLING OF TEMPORARY TRAFFIC CONTROL DEVICES.
2. CONSTRUCTING OF NEW CONCRETE SHALLOW GUTTER.
3. MILLING AND PLACING OF NEW BITUMINOUS PAVEMENT.
4. PAINTING OF NEW PAVEMENT MARKINGS.
5. INSTALLING OF NEW WHEEL STOPS.
6. INSTALLING OF NEW SITE SIGNAGE.

GRAPHIC SCALE

10 5 0 10 20

SCALE 1:500



KEY MAP

PUERTO RICO PORTS AUTHORITY ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN, ESQ. DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

CONSTRUCTION PHASING PLAN

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:500 H V
SHEET NO.	C-001

MANSIONES DEL CARIBE

MATCH LINE C-003

EXIST. STORM
SEWER CROSSING

AIRPORT ACCESS ROAD

MATCH LINE-A

AIRFIELD

MATCH LINE-A

MAIN
TERMINAL

STANDBY
GENERATOR

STAGING AREA

MATCH LINE-B

AIRFIELD

MATCH LINE-B

MANSIONES DEL CARIBE

HANGAR 5

LEGEND:

- TRUCK WHEELS WASHING DEVICE
- TRUCK WHEELS WASHING BASIN
- STRAW WATTLES
- PROPERTY LINE
- LIMIT OF PROJECT
- APPROXIMATE STREET CROWN (HIGH POINT)
- EXIST. ELEVATION CONTOUR LINE
- ##.## EXIST. GROUND ELEVATION
- CONSTRUCTION ACCESS
- RUNOFF WATER FLOW
- DIRECTIONS OF STORM WATER FLOW

5 0 5 10

GRAPHIC SCALE, SCALE 1:250

KEY MAP

PUERTO RICO PORTS AUTHORITY ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T: XXXXXXXXX CHIEF OF STUDIES AND DESIGNS	DATE
RCM'D: ROMEL PEDRAZA, PE ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN	DATE
APP'D: NORBERTO J. NEGRÓN, ESQ. EXECUTIVE DIRECTOR	DATE

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.

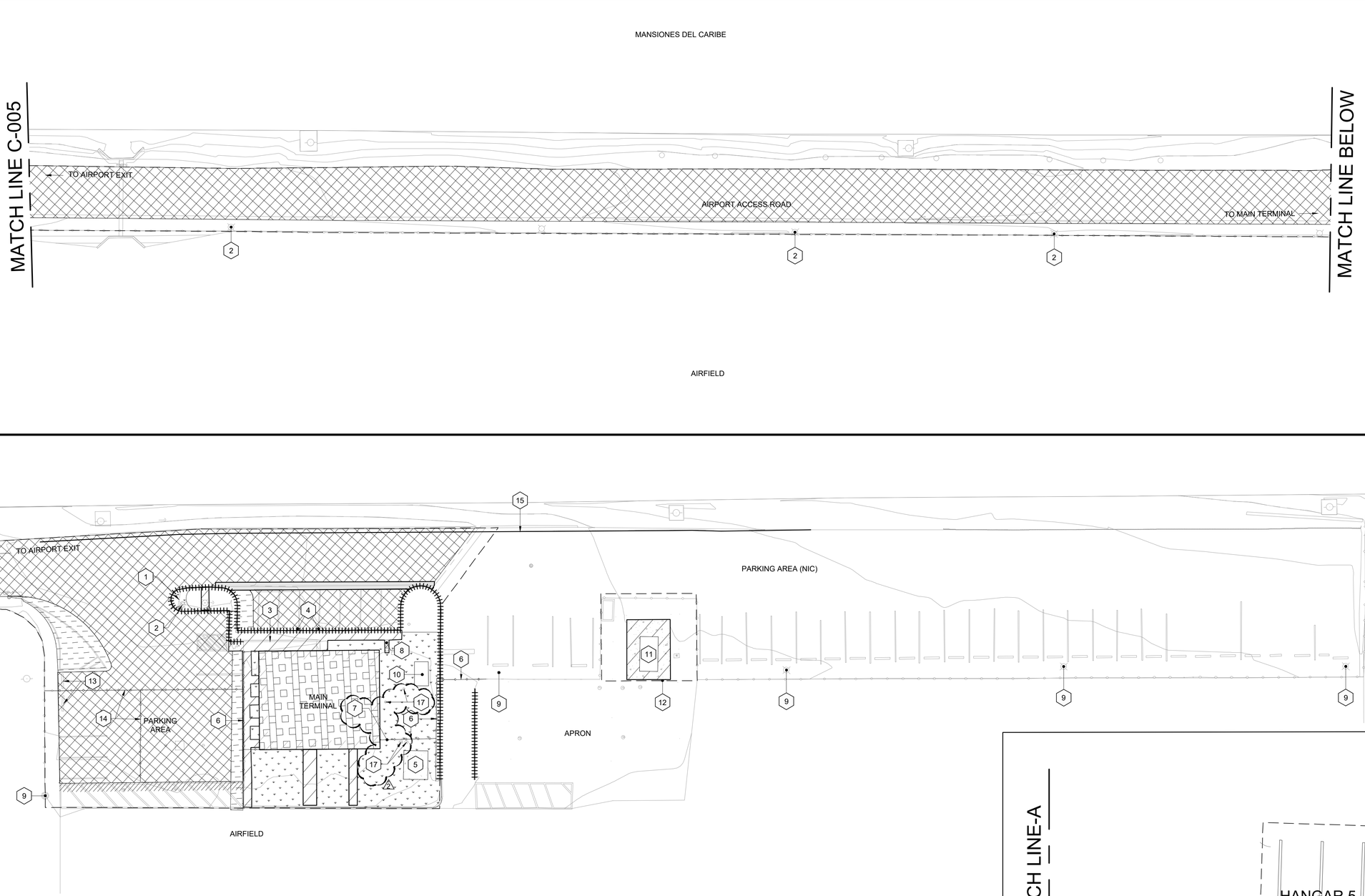
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

SOIL EROSION AND SEDIMENT CONTROL PLAN

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:250 H V
SHEET NO.	C-004

C:\Users\lodis\AppData\Local\Temp\AcPublish_21036\DWG C-003 TO C-004_CES.dwg ; October 22, 2025 ; 2:10pm



LEGEND:

- 2" COLD MILLING OF BITUMINOUS CONCRETE PAVEMENT, SPEC. 403
- EXIST. CONC. SLAB TO BE REMOVED (APPROX. THICKNESS=6 INCHES)
- EXIST. BUILDING TO BE REMOVED
- EXIST. PLANTER TO BE REMOVED
- FULL DEPTH REMOVAL OF BITUMINOUS CONCRETE, SPEC. 402
- EXIST. CONC. CURB TO BE REMOVED
- PROPERTY LINE
- LIMIT OF PROJECT
- LIMIT OF PAVEMENT REHABILITATION
- EXIST. SHALLOW CONC. GUTTER TO BE RECONSTRUCTED.

SCOPE OF WORK:

1. AIRPORT SIGN TO BE REMOVED.
2. POWER / LIGHT POLE TO BE REMOVED (SEE ELECTRICAL AND LIGHT PLANS).
3. ALUMINUM RAILING TO BE REMOVED.
4. FLAG POLES AND BASE TO BE REMOVED.
5. WATER CISTERN AND REMAINING EQUIPMENT TO BE REMOVED.
6. CHAIN LINK FENCE TO BE REMOVED (SEE CONSTRUCTION PHASING PLAN FOR TEMPORARY FENCE).
7. SQUARE GALV. STEEL POLE AND BASE TO BE REMOVED. COORDINATE REMOVAL WITH PREPA.
8. WATER METER SLAB TO REMAIN. PROTECT BOX DURING DEMOLITION. (2)
9. EXIST. LIGHT POLE TO BE REPLACED WITH NEW. (SEE LIGHTING PLAN).
10. REMOVE AIRFIELD LIGHTS VOLTAGE REGULATOR AND RELOCATED TEMPORARILY, REFER TO AIRFIELD ELECTRICAL DWGS.
11. EXIST. STANDBY GENERATOR TO BE REMOVED AND DISPOSED OF.
12. REMOVE EXIST. WIND CONE, MAST AND BASE.
13. REMOVE CONC. WHEEL STOP.
14. EXIST. CHAIN LINK FENCE TO BE REMOVED AND RELOCATED (SEE CONSTRUCTION PHASING PLAN).
15. EXIST. GUARDRAIL TO BE REMOVED.
16. REMOVE SEPTIC TANK SYSTEM AND FILL. SEE NOTE 10.
17. EXIST. CLEAN OUTS TO BE REMOVED. (2)

5 0 5 10

GRAPHIC SCALE, SCALE 1:250

KEY MAP

SAN JUAN, PUERTO RICO ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ PUERTO RICO PORTS AUTHORITY

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T: XXXXXXXXX, CHIEF OF STUDIES AND DESIGNS — DATE

RCM'D: ROMEL PEDRAZA, PE, ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN — DATE

APP'D: NORBERTO J. NEGRÓN, ESQ., EXECUTIVE DIRECTOR — DATE

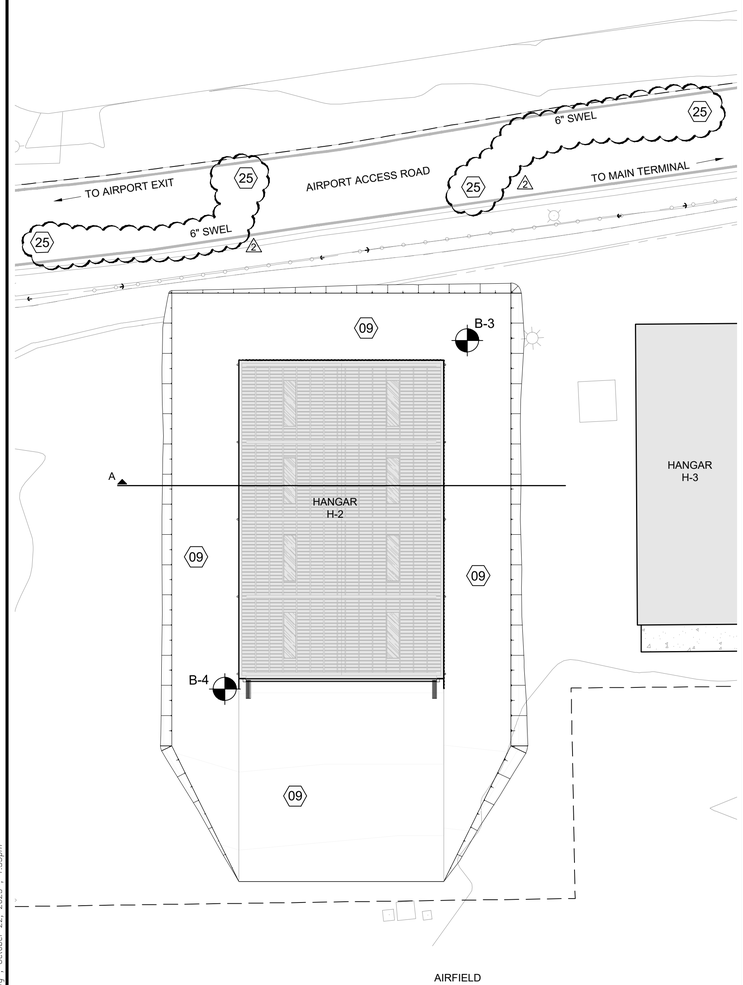
NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.
2	22-OCT-25	BID 1-56/DWG REVISED	L.O.

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

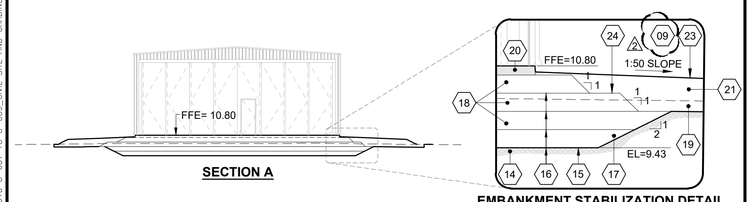
MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

SITE DEMOLITION PLAN

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:250 H V
SHEET NO.	C-006



AIRFIELD

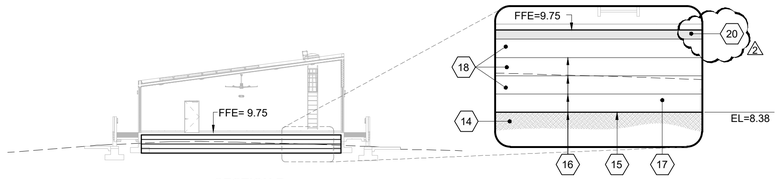


SECTION A

EMBANKMENT STABILIZATION DETAIL

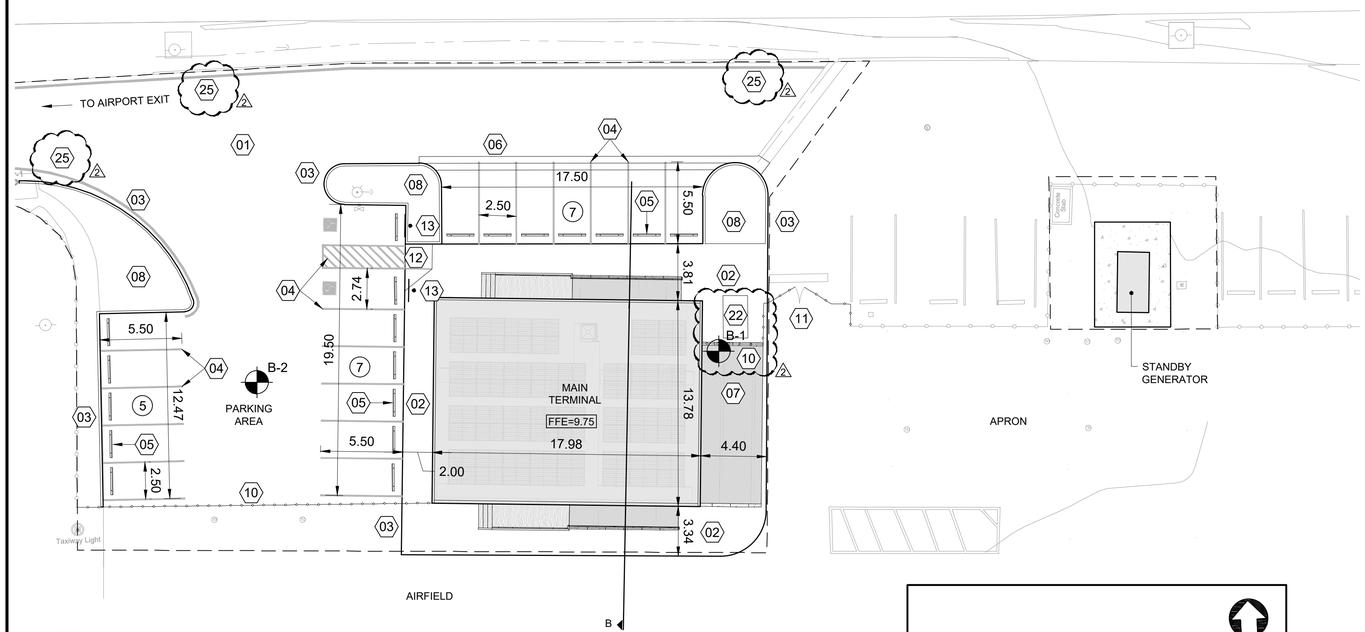
HANGAR H-2

SCALE 1:200



SECTION B

EMBANKMENT STABILIZATION DETAIL

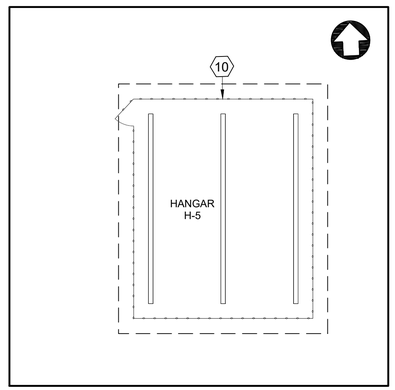


AIRFIELD

B

NOTES:

1. THE REPORT FOR THE GEOTECHNICAL INVESTIGATION FOR THE PROPOSED IMPROVEMENTS TO HUMACAO REGIONAL AIRPORT (HUC) AT MARGINAL OESTE STREET, NORTHEAST OF STATE ROAD PR-923 IN RIO ABAJO WARD OF THE MUNICIPALITY OF HUMACAO, PUERTO RICO PREPARED BY DESPIAU ASSOCIATES IS APPLICABLE TO THIS PROJECT.
2. THE DESIGN OF EARTH FILL AND EMBANKMENT STABILIZATION IN THIS DRAWING IS FOR A MAT TYPE FOUNDATION AS RECOMMENDED IN THE GEOTECHNICAL INVESTIGATION REPORT. THE CONTRACTOR MAY
3. GROUNDWATER MAY BE PRESENT AT EXCAVATION DURING HIGH RAIN SEASONS.
4. EARTH FILL AND EMBANKMENT STABILIZATION FOR MAIN TERMINAL AND HANGAR 2 IS ONE PAY ITEM. THIS PAY ITEM INCLUDES EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL, DEWATERING, GROUND SCARIFYING AND COMPACTION, CRUSHED STONE FILLING AND COMPACTION, INSTALLING OF GEOSYNTHETIC MATS, GEOGRIDS AND FABRICS AND, PLACING AND COMPACTING OTHER FILL MATERIAL AS SHOWN IN THESE PLANS.
5. NEW FOUNDATION SLABS SHALL SIT OVER A STABILIZED EARTH FILL NOT LESS THAN 1.22 MTS. (4 FT.) AND NOT LESS THAN THREE (3) STABILIZATION LAYERS. REFER TO GEOTECHNICAL INVESTIGATION REPORT.



MAIN TERMINAL BUILDING AND STANDBY GENERATOR

SCALE 1:200

KEY NOTES:

01. NEW BITUMINOUS CONCRETE PAVEMENT, REFER TO PAVEMENT REHABILITATION PLAN.
02. NEW CONCRETE SIDEWALK. FOR DETAIL, REFER TO SHEET C-009.
03. NEW CONCRETE CURB. FOR DETAIL, REFER TO SHEET C-009.
04. NEW 4" WIDE PAVEMENT STRIPING (@ 45° 2'-0" O.C. WHEN NECESSARY) USING HIGHWAY MARKING PAINT - YELLOW (2 COATS). SPEC. 639.
05. NEW CONCRETE WHEEL STOP (8" W X 5" H X 6'-0" L) ANCHORED TO PAVING WITH TWO (2) 1'-6" LONG #4 REBAR. FOR DETAIL, REFER TO SHEET C-009.
06. NEW CONCRETE SHALLOW GUTTER. FOR DETAIL, REFER TO SHEET C-009.
07. NEW CONCRETE RAMP. REFER TO ARCHITECTURAL.
08. NEW PLANTER, SPEC. 628.
09. SEEDING, SPEC. 627.
10. NEW CHAIN LINK FENCE, SPEC. 607. FOR DETAIL, REFER TO SHEET C-009.
11. NEW CHAIN LINK GATE, SPEC. 607. FOR DETAIL, REFER TO SHEET C-009.
12. NEW HANDICAP RAMP. FOR DETAIL, REFER TO SHEET C-009.
13. NEW ACCESSIBLE PARKING SIGN.
14. 0.250 (10 IN.) SCARIFIED SURFACE AND COMPACTED @95% MIN. MPD
15. HEAVY DUTY STABILIZATION FABRIC
16. GEOGRID REINFORCEMENT
17. 0.305 (1 FT.) CRUSHED STONE (ASSHTO STONE #1 COMPACTED 83% OF ITS MAXIMUM BULK DENSITY TEST)
18. 0.305 (1 FT.) CRUSHED (AASHTO STONE #67 COMPACTED 83% OF ITS MAXIMUM BULK DENSITY TEST)
19. 0.203 (8 IN.) GROUND DEMUCKING
20. FOUNDATION SLAB (SEE NOTE 5)
21. COMPACTED FILL MATERIAL (AASHTO A-2-4 @95% MIN. MPD)
22. EXIST. AIRFIELD LIGHTS CABINET TO REMAIN
23. 0.10 (4 IN.) TOPSOIL
24. NON-WOVEN SEPARATION FABRIC (PRHTA SPEC. 712-7)
25. THERMOPLASTIC PAVEMENT MARKINGS STRIPE,WHITE.

LEGEND:

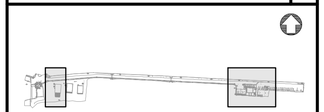
B-# BORING LOCATION

MPD MODIFIED PROCTOR DRY DENSITY

SWEL SINGLE WHITE EDGE LINE

5 0 5 10

GRAPHIC SCALE, SCALE 1:200



KEY MAP

DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO

PUERTO RICO PORTS AUTHORITY

ENGINEER:

LOA

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T: XXXXXXXX CHIEF OF STUDIES AND DESIGNS		DATE
RCM'D: ROMEL PEDRAZA, PE ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN		DATE
APP'D: NORBERTO J. NEGRÓN, ESQ. EXECUTIVE DIRECTOR		DATE

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.
2	22-OCT-25	BID No. 1-56/REV. PER RFI	L.O.

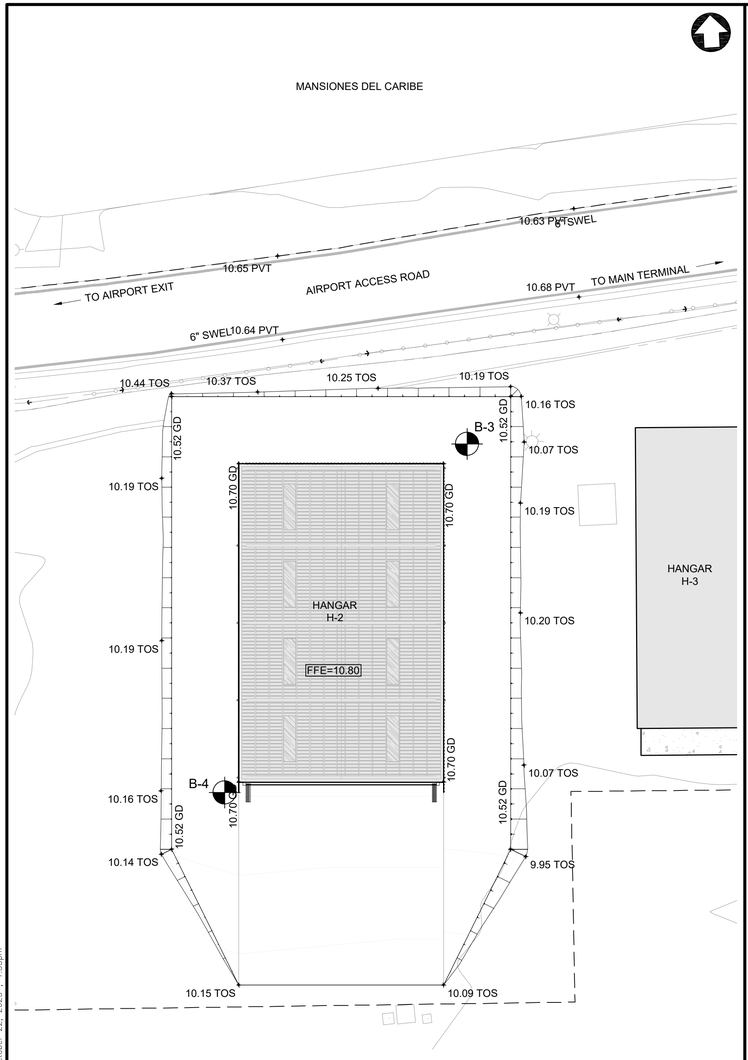
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

CIVIL SITE PLAN

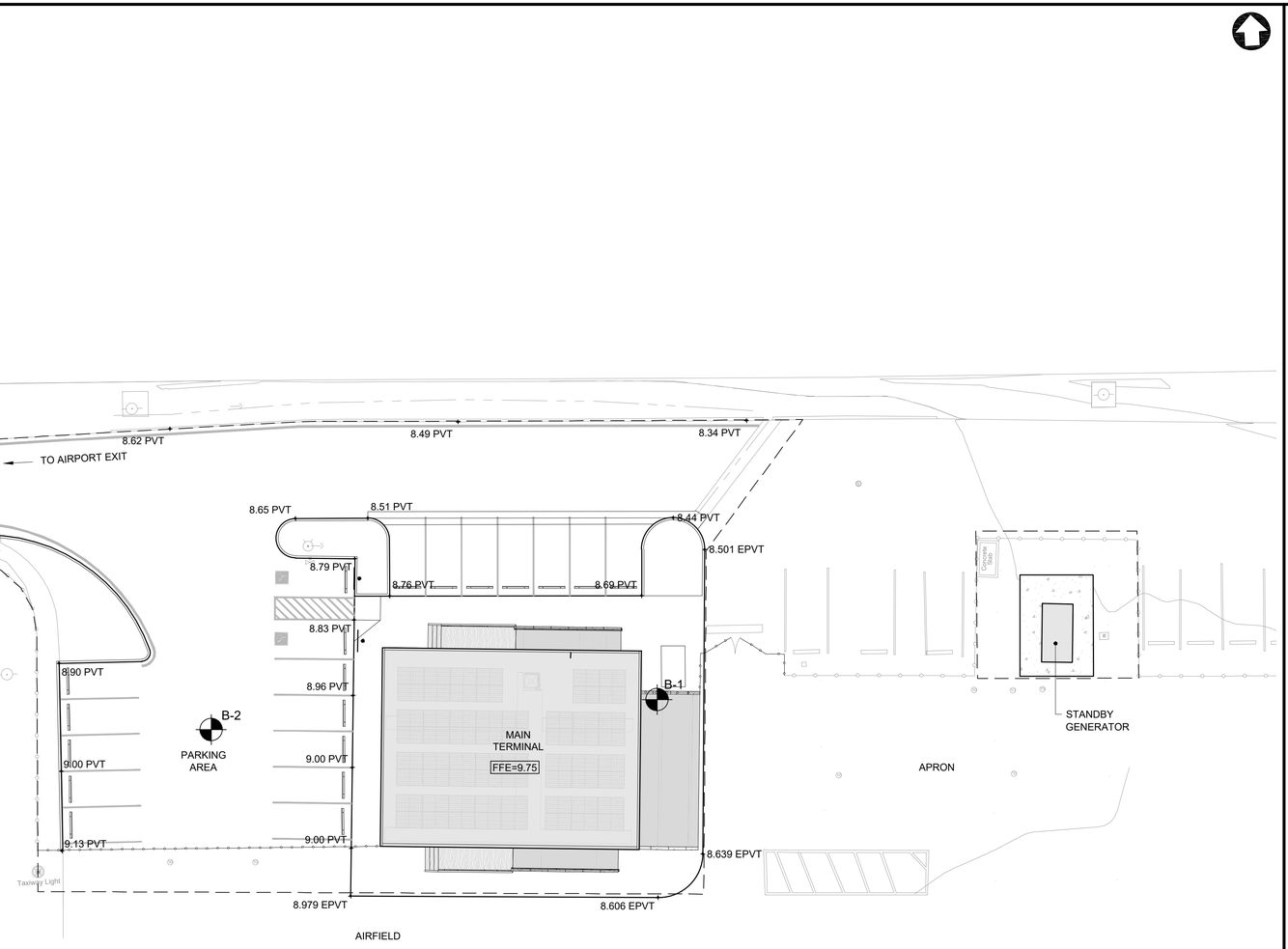
PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:200 H V
SHEET NO.	C-007

C:\Users\lodis\Vpp0ato\Local\Temp\AcPublish_21036\010 C-007 TO C-009_CIVIL SITE AND GRADING PLAN.dwg ; October 22, 2025 ; 1:35pm



HANGAR H-2

SCALE 1:200



MAIN TERMINAL BUILDING AND STANDBY GENERATOR

SCALE 1:200

LEGEND:

GD	FINISH GRADE
SW	SIDEWALK
TOS	TOE OF SLOPE
PVT	PAVEMENT
FFE	FINISHED FLOOR ELEVATION
EPVT	EXISTING PAVEMENT

PROPERTY LINE

LIMIT OF PROJECT

LIMIT OF PAVEMENT REHABILITATION

5 0 5 10

GRAPHIC SCALE, SCALE 1:200

KEY MAP

SAN JUAN, PUERTO RICO ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ PUERTO RICO PORTS AUTHORITY

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX — DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE — DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN, ESQ. — DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.

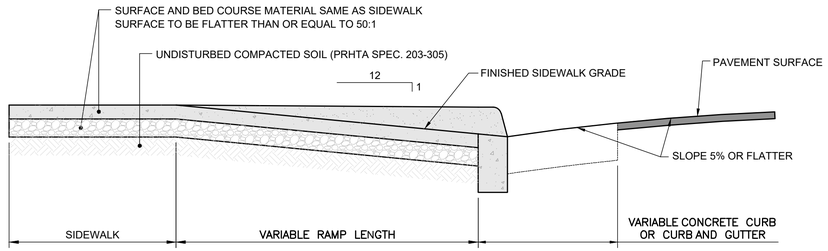
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

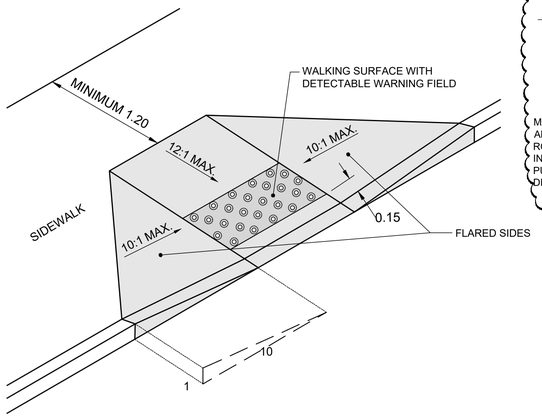
GRADING PLAN

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:250 H V
SHEET NO.	C-008

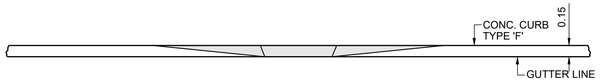
C:\Users\ladis\AppData\Local\Temp\AcPublish_21036\010 C-007 TO C-009_CIVIL SITE AND GRADING PLAN.dwg - October 22, 2025 - 1:35pm



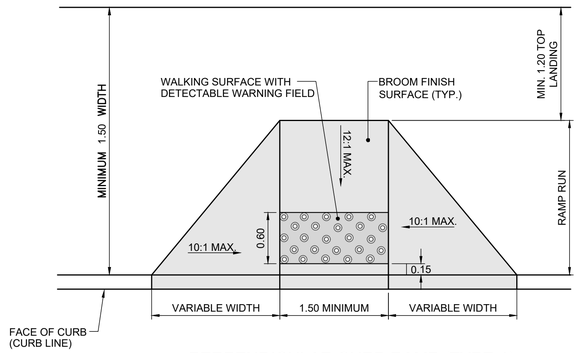
RAMP - TYPICAL SECTION



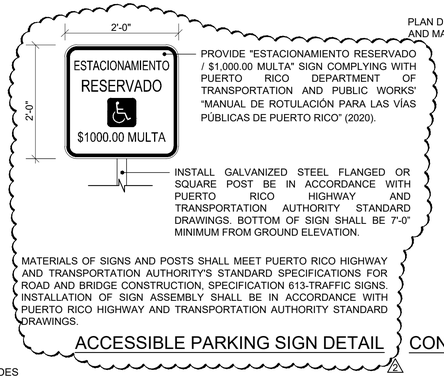
RAMP - ISOMETRIC



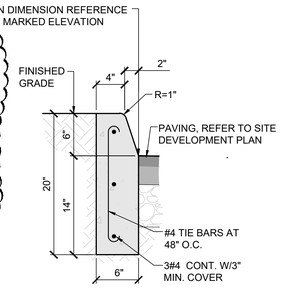
ELEVATION



PERPENDICULAR CURB RAMP (TYPE-1)

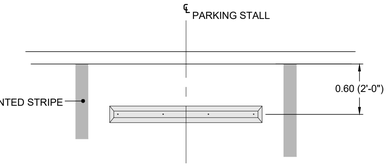


ACCESSIBLE PARKING SIGN DETAIL

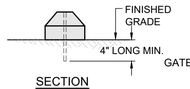


NOTE: PORTLAND CONCRETE CEMENT (PCC) SHALL BE CLASS A.

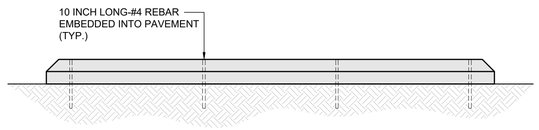
CONCRETE CURB TYPE "D" DETAIL



LOCATION

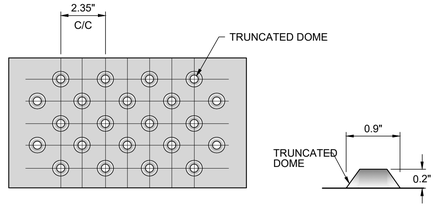


SECTION

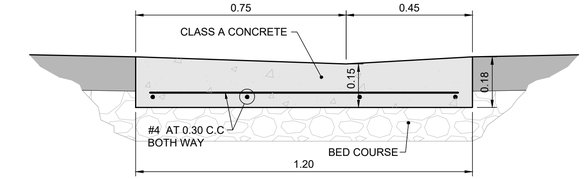


ELEVATION

WHEEL STOP INSTALLATION DETAIL

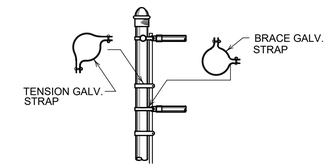


DETECTABLE WARNING FIELD WITH TRUNCATED DOMES



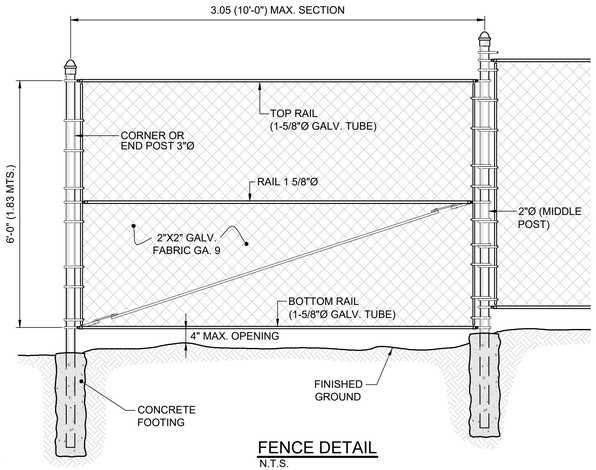
SHALLOW CONCRETE GUTTER DETAIL

NOT TO SCALE



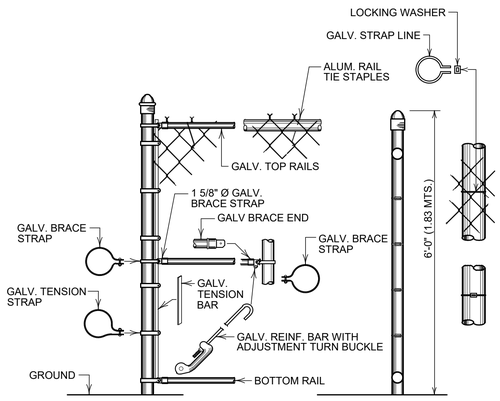
CORNER POST DETAIL

NOTE: CORNER POST WILL BE GALV.



FENCE DETAIL

N.T.S.

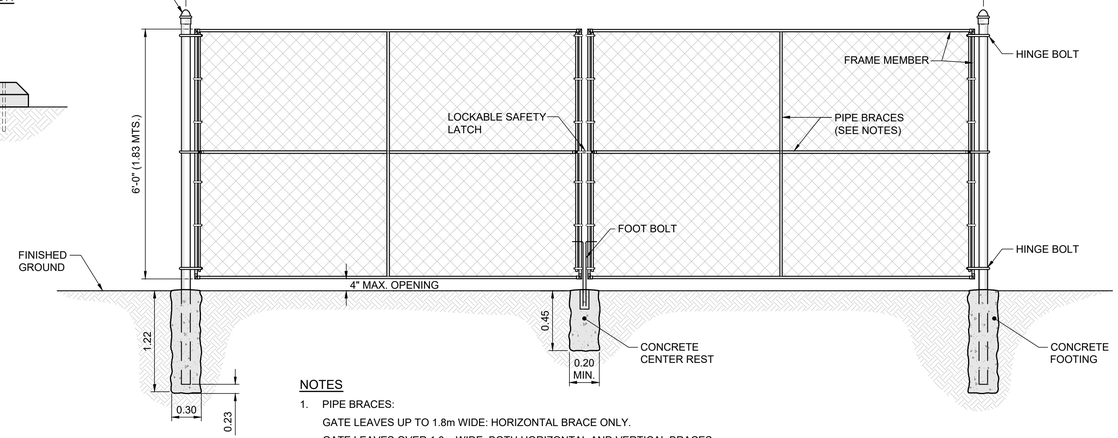


END POST DETAIL

NOTE: END POST WILL BE GALV. 3" O.D. 5.81 #/FT.

MIDDLE POST DETAIL

NOTE: MIDDLE POST WILL BE GALV. 2" O.D. 2.72 #/FT.



NOTES

1. PIPE BRACES:
   GATE LEAVES UP TO 1.8m WIDE: HORIZONTAL BRACE ONLY.
   GATE LEAVES OVER 1.8m WIDE: BOTH HORIZONTAL AND VERTICAL BRACES.
2. ALL DIMENSIONS IN METERS UNLESS OTHERWISE NOTED.

CHAIN LINK FENCE DOUBLE GATE DETAIL

N.T.S.

DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO ■ PUERTO RICO PORTS AUTHORITY

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

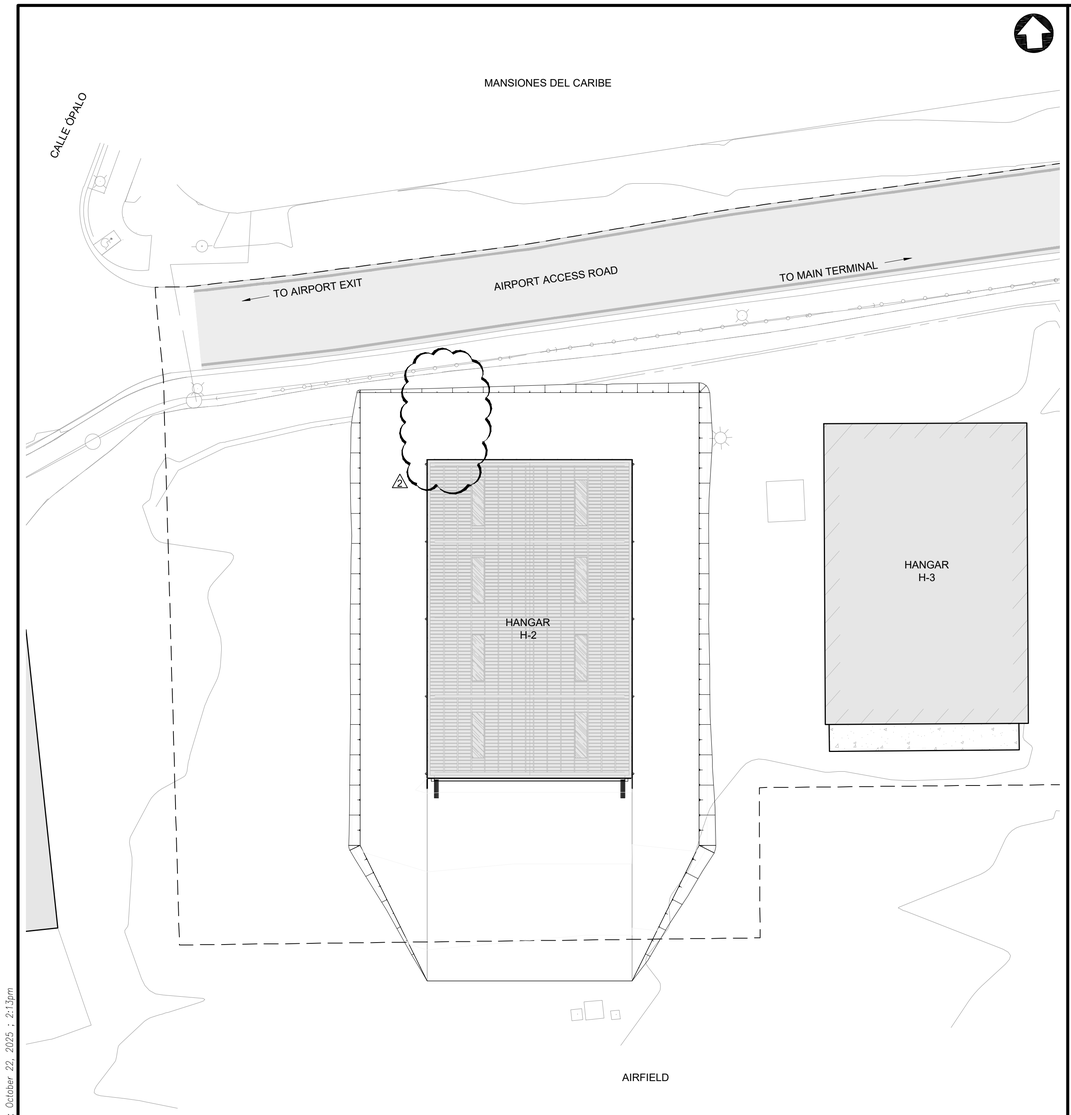
APP'D:
NORBERTO J. NEGRÓN, ESQ. DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.
2	22-OCT-25	BID No. 1-56/REV. PER RFI	L.O.

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY
MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

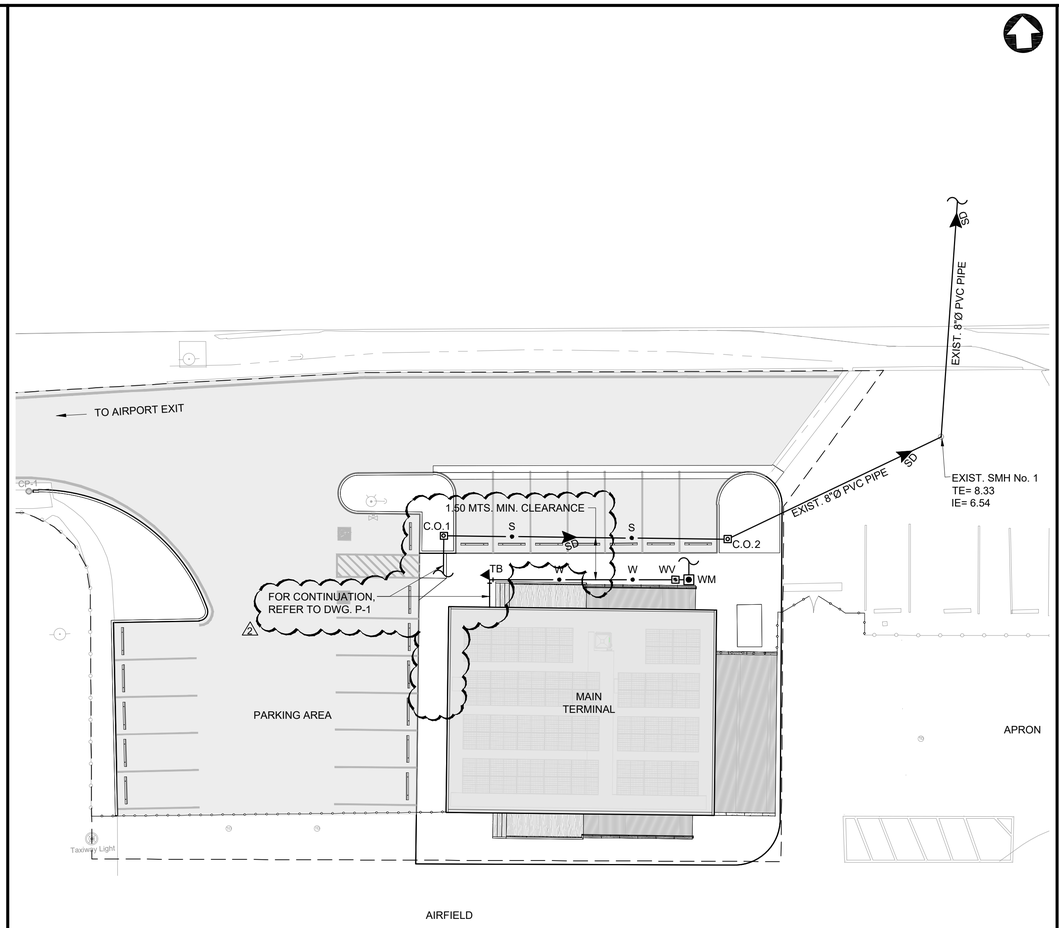
CIVIL SITE DETAILS

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:250 H V
SHEET NO.	C-009



HANGAR H-2

SCALE 1:200



MAIN TERMINAL BUILDING

SCALE 1:200

LEGEND:

- EXIST. SANITARY SEWER LINE
- PROPERTY LINE
- LIMIT OF PROJECT
- W — NEW 1-1/4"Ø Cu TYPE K WATER LINE
- S — NEW 4"Ø PVC SDR 35 SEWER LINE
- TB — THRUST BLOCK
- WM — EXIST. WATER METER
- WV — NEW BALL VALVE
- C.O. # — NEW CLEAN OUT
- SD — FLOW DIRECTION

PROJECT NOTES:

1. FITTINGS FOR COPPER TUBING SHALL BE ACCORDING TO SPECIFICATION 221113, NSF CERTIFIED. PROVIDE NPT UNIONS AT VALVE ENDS.
2. USE HDPE OR PLASTIC MATERIAL FOR VALVE BOX. BOX SIZE TO BE SELECTED AS REQUIRED PER PIPE FITTINGS SIZE AND CONFIGURATION.
3. EXISTING WATER METER TO REMAIN IN PLACE. PROTECT METER BOX FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
4. WHEN DISCONNECTING WATER AND SANITARY SEWER SERVICES, CAP IMMEDIATELY TO AVOID DEBRIS CLOGGING THE LINES.
5. NEW WATER LINE TO MATCH SIZE OF MAIN TERMINAL WATER METER SIZE.
6. PROTECT EXISTING SANITARY SEWER CLEAN OUT (CO 4) FROM DAMAGE DURING CONSTRUCTION ACTIVITIES. RESET TOP TO 6 INCHES (0.15 MTS) ABOVE FINISHED GRADE WITH NEW MATERIALS.

5 0 5 10

GRAPHIC SCALE, SCALE 1:200

KEY MAP

SAN JUAN, PUERTO RICO ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ PUERTO RICO PORTS AUTHORITY

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN, ESQ. DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.
2	22-OCT-25	BID 1-56/REVISED PER PLUMBING PLANS	L.O.

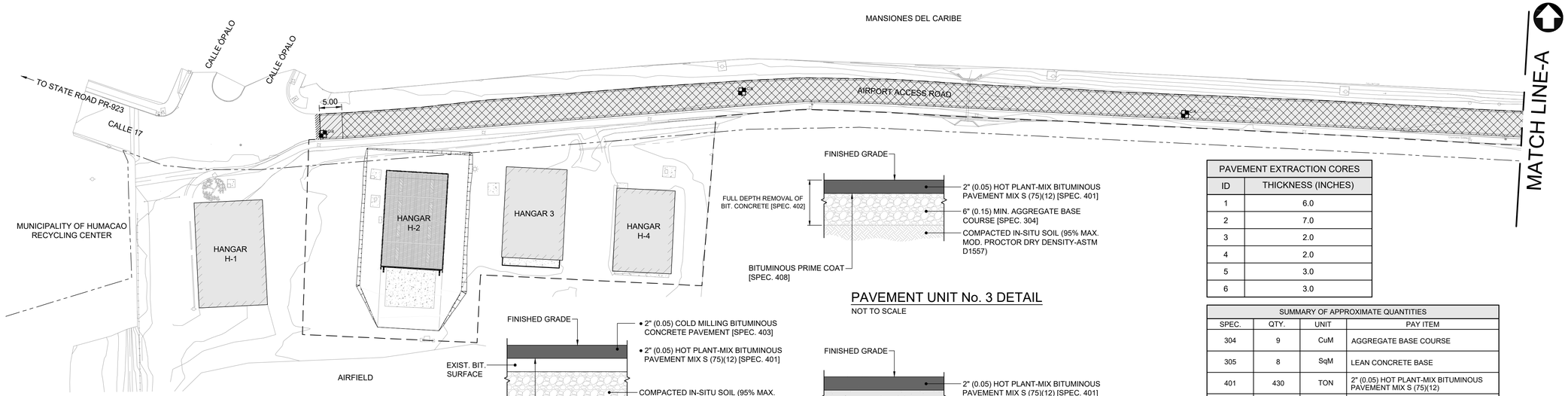
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

SITE PLUMBING PLAN
WATER SERVICE AND SANITARY SEWER

PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:200 H V
SHEET NO.	C-010

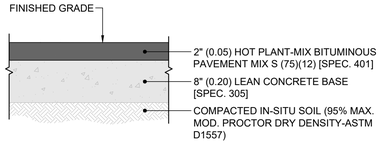
C:\Users\ladis\AppData\Local\Temp\AcPublish_21036\011 C-010 TO C-011_SITE PLUMBING PLAN.dwg ; October 22, 2025 ; 2:13pm



PAVEMENT UNIT No. 3 DETAIL
NOT TO SCALE

PAVEMENT EXTRACTION CORES	
ID	THICKNESS (INCHES)
1	6.0
2	7.0
3	2.0
4	2.0
5	3.0
6	3.0

PAVEMENT UNIT No. 1 DETAIL
NOT TO SCALE



PAVEMENT UNIT No. 2 DETAIL
NOT TO SCALE

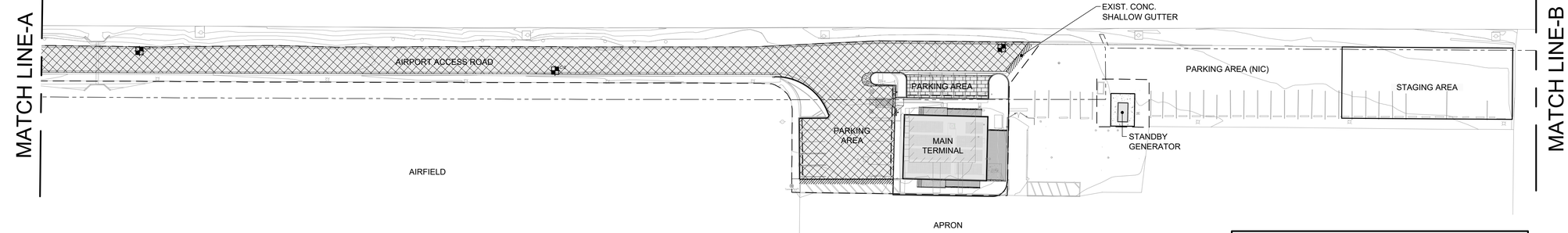
SUMMARY OF APPROXIMATE QUANTITIES			
SPEC.	QTY.	UNIT	PAY ITEM
304	9	CuM	AGGREGATE BASE COURSE
305	8	SqM	LEAN CONCRETE BASE
401	430	TON	2" (0.05) HOT PLANT-MIX BITUMINOUS PAVEMENT MIX S (75)(12)
402	7	CuM	FULL DEPTH REMOVAL OF BITUMINOUS PAVEMENT
403	3,136	SqM	2" (0.05) COLD MILLING BITUMINOUS CONCRETE PAVEMENT
407	3,165	SqM	BITUMINOUS TACK COAT
408	96	SqM	BITUMINOUS PRIME COAT

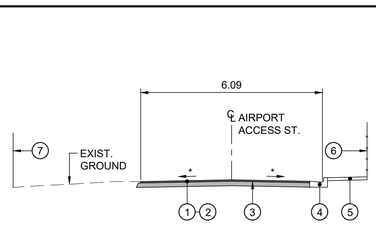
LEGEND:

- PROPERTY LINE
- LIMIT OF PROJECT
- LIMIT OF PAVEMENT REHABILITATION
- PAVEMENT TRANSITION
- PAVEMENT UNIT No. 1
- PAVEMENT UNIT No. 2
- PAVEMENT UNIT No. 3
- C-# PAVEMENT EXTRACTION CORE

NOTES:

1. THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) AND SUBSEQUENT REVISIONS ARE USED IN THIS PROJECT FOR PAVEMENT RESTORATION WORKS. THE FOLLOWING PRHTA-SSRBC ARE REFERENCED AND APPLICABLE TO THE PROJECT.
   a. SPECIFICATION 304 - AGGREGATE BASE COURSE
   b. SPECIFICATION 305 - LEAN CONCRETE BASE
   c. SPECIFICATION 401 - HOT PLANT-MIX BITUMINOUS PAVEMENT
   d. SPECIFICATION 402 - REHABILITATION OF BITUMINOUS CONCRETE PAVEMENT
   e. SPECIFICATION 403 - COLD MILLING OF BITUMINOUS CONCRETE PAVEMENT
   f. SPECIFICATION 407 - BITUMINOUS TACK COAT
   g. SPECIFICATION 408 - BITUMINOUS PRIME COAT
2. WHEN MILLING PAVEMENT AT OR NEAR MANHOLE COVERS, CLEANOUTS, SLABS, GUTTERS OR ANY OTHER STRUCTURE, EXTREME CARE SHALL BE TAKEN TO NOT DAMAGE SURFACE AND EDGES.
3. IN THE EVENT THAT HOLES ARE FORMED DURING MILLING, THESE SHALL BE FILLED WITH BITUMINOUS CONCRETE PRIOR PLACING NEW PAVEMENT.
4. APPLY BITUMINOUS TACK COAT OR BITUMINOUS PRIME COAT AT RATE OF 0.29 GALS. PER SQUARE METER. APPLYING OF BITUMINOUS COATS IS SUBSIDIARY TO HOT PLANT-MIX BITUMINOUS PAVEMENT.
5. SUBMIT HOT PLANT-MIX DESIGN APPROVED BY PRHTA PRIOR PLACING BITUMINOUS PAVEMENT.

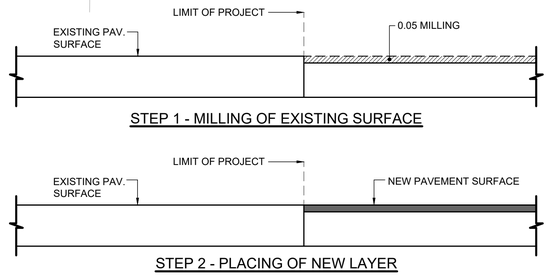




LEGEND:

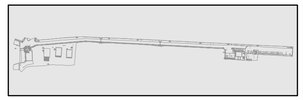
1. 2" COLD MILLING BITUMINOUS CONCRETE PAVEMENT
2. 2" HOT PLANT-MIX BITUMINOUS PAVEMENT MIX S (75)(12)
3. BITUMINOUS TACK COAT
4. EXIST. CONCRETE CURB AND GUTTER
5. EXIST. CONCRETE SIDEWALK
6. EXIST. CHAIN LINK FENCE
7. EXIST. CONCRETE RETAINING WALL
* EXIST. TRANSVERSE SLOPE (TO REMAIN UNCHANGED)

AIRPORT ACCESS STREET TYPICAL SECTION
SCALE 1:100



BITUMINOUS PAVEMENT TRANSITION AT LIMITS OF PROJECT
NOT TO SCALE

GRAPHIC SCALE
10 5 0 10 20
SCALE 1:500



KEY MAP

PUERTO RICO PORTS AUTHORITY ■ DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION ■ SAN JUAN, PUERTO RICO

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

AUTORIDAD DE LOS PUERTOS
GOBIERNO DE PUERTO RICO

SBM'T:
XXXXXXXXX DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE DATE
ACTING ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN, ESQ. DATE
EXECUTIVE DIRECTOR

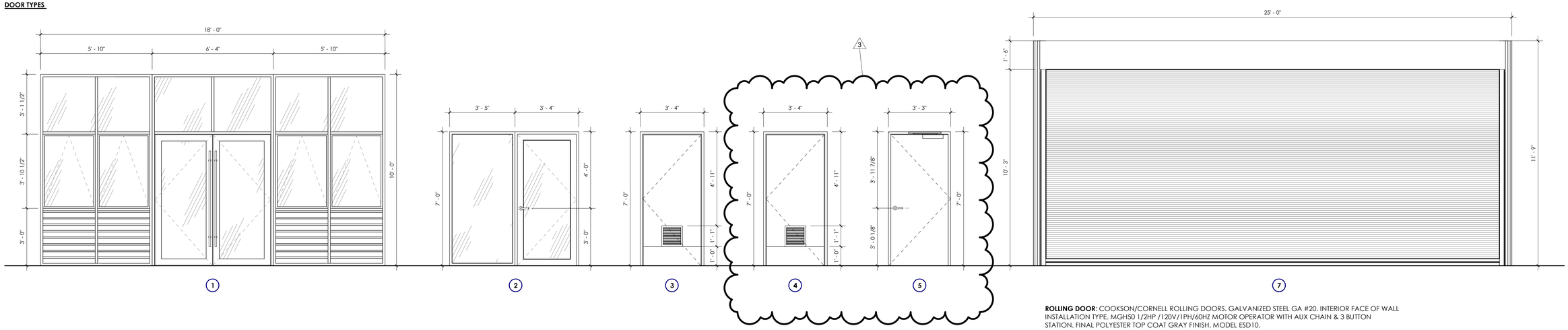
NO.	DATE	ISSUE DESCRIPTION	BY
1	05-SEP-25	ISSUE FOR BID	L.O.

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY
MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

PAVEMENT REHABILITATION PLAN

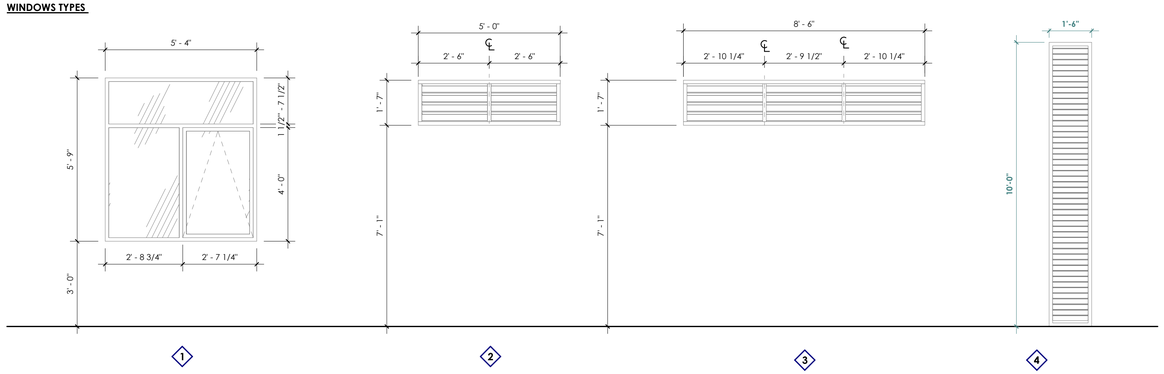
PRPA PROJ NO:	XXXXXXX
DRAWN BY:	JL
DESIGNED BY:	LO/JL
CHECKED BY:	LO
DATE:	October 22, 2025
SCALE:	1:500 H V
SHEET NO.	C-012

DOOR TYPES



ROLLING DOOR: COOKSON/CORNELL ROLLING DOORS, GALVANIZED STEEL GA #20. INTERIOR FACE OF WALL INSTALLATION TYPE. MGH50 1/2HP /120V/1PH/60HZ MOTOR OPERATOR WITH AUX CHAIN & 3 BUTTON STATION. FINAL POLYESTER TOP COAT GRAY FINISH. MODEL ESD10.

WINDOWS TYPES



DOOR SCHEDULE

Type Mark	Count	Model	Comments	Height	Width	Operation	Description
1	2			10' - 0"	18' - 0"	RLH/RRH	
2	1			7' - 0"	6' - 9"	RLH/RRH	
3	4			7' - 0"	3' - 4"	LH	HOLLOW METAL DOOR WITH STEEL FRAME, LOUVER AND STAINLESS-STEEL KICK PLATE.
4	1			7' - 0"	3' - 4"	RH	HOLLOW METAL DOOR WITH STEEL FRAME, LOUVER AND STAINLESS-STEEL KICK PLATE.
5	2			7' - 0"	3' - 3"	RRH	
7	1	ESD20	COOKSON/CORNELL ROLLING DOORS	11' - 9"	25' - 0"	ROLLUP	BUILT TO ORDER METAL SLATTED ROLLING DOORS PROVIDE SECURITY AGAINST ENTRY AND/OR WEATHER PROTECTION.

Grand total: 11

WINDOW SCHEDULE

Type Mark	Count	Height	Width	Material	Description
1	1	5' - 9"	5' - 4"		
2	2	1' - 8 3/4"	10' - 7 5/8"		
3	1	1' - 8 3/4"	10' - 7 5/8"		
4	6	6' - 6"	15' - 0"		

Grand total: 10

HARDWARE SCHEDULE

HARDWARE SET 1				
DOOR TYPE: #3, #4				
3 ea	HINGES	4.5 X 4.5 -BAA 5BB1 4.5 X 4.5 US	US32D	IVES
1 ea	CYLINDRICAL LOCKSET	ND40	US26D	SCHLAGE
1 ea	DOOR CLOSER	REGULAR ARM-4040XP REG 689 STD SRT		LCN
3 ea	SILENCERS	SR64		IVES
1 ea	FLOOR DOORSTOP	FS13	US26D	IVES
HARDWARE SET 2				
DOOR TYPE: #5				
3 ea	HINGES	4.5 X 4.5 -BAA 5BB1 4.5 X 4.5 US	US32D	IVES
1 ea	EXIT DEVICE W/ FUNCTION	L-DT 25 R SERIES	US26D	FALCON
1 ea	DOOR CLOSER	REGULAR ARM-4040XP REG 689 STD SRT		LCN
3 ea	SILENCERS	SR64		IVES

3

RCMDO ARQUITECTOS PSC
316 DE DIEGO AVENUE, SUITE 201
SAN JUAN, PR 00909

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

PORTS AUTHORITY
GOVERNMENT OF PUERTO RICO

SBM'T:
XXXXXXXXX
CHIEF OF STUDIES AND DESIGNS — DATE

RCM'D:
ROMEL PEDRAZA, PE
ASST. EXEC. DIR. ENG., CONST. & PLAN — DATE

APP'D:
NORBERTO J. NEGRÓN DÍAZ, ESQ.
EXECUTIVE DIRECTOR — DATE

NO.	DATE	ISSUE DESCRIPTION	BY
3	10.22.2025	ISSUE FOR BIDDING	

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

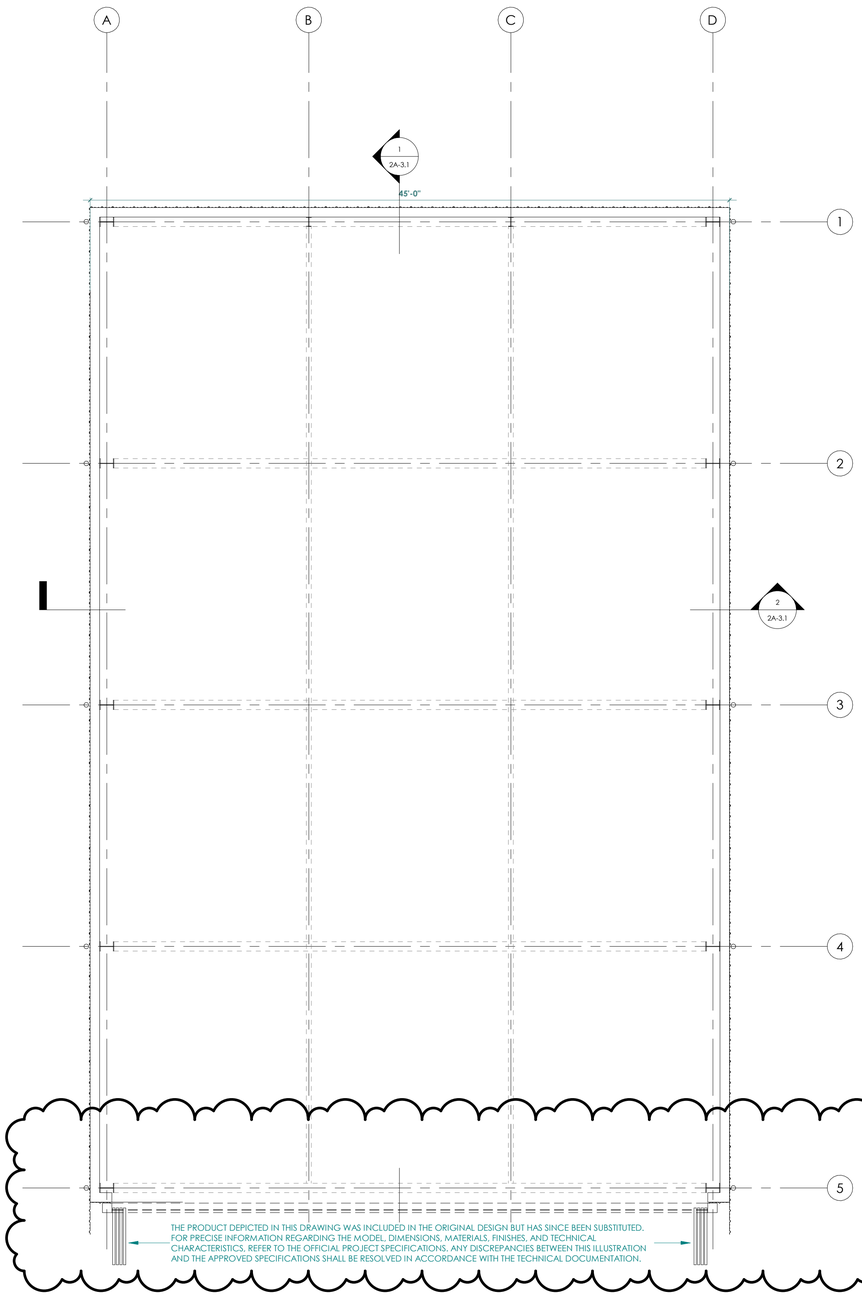
MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

DOORS & WINDOWS SCHEDULE

PRPA PROJ NO:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
DATE:
SCALE: H V
SHEET NO.

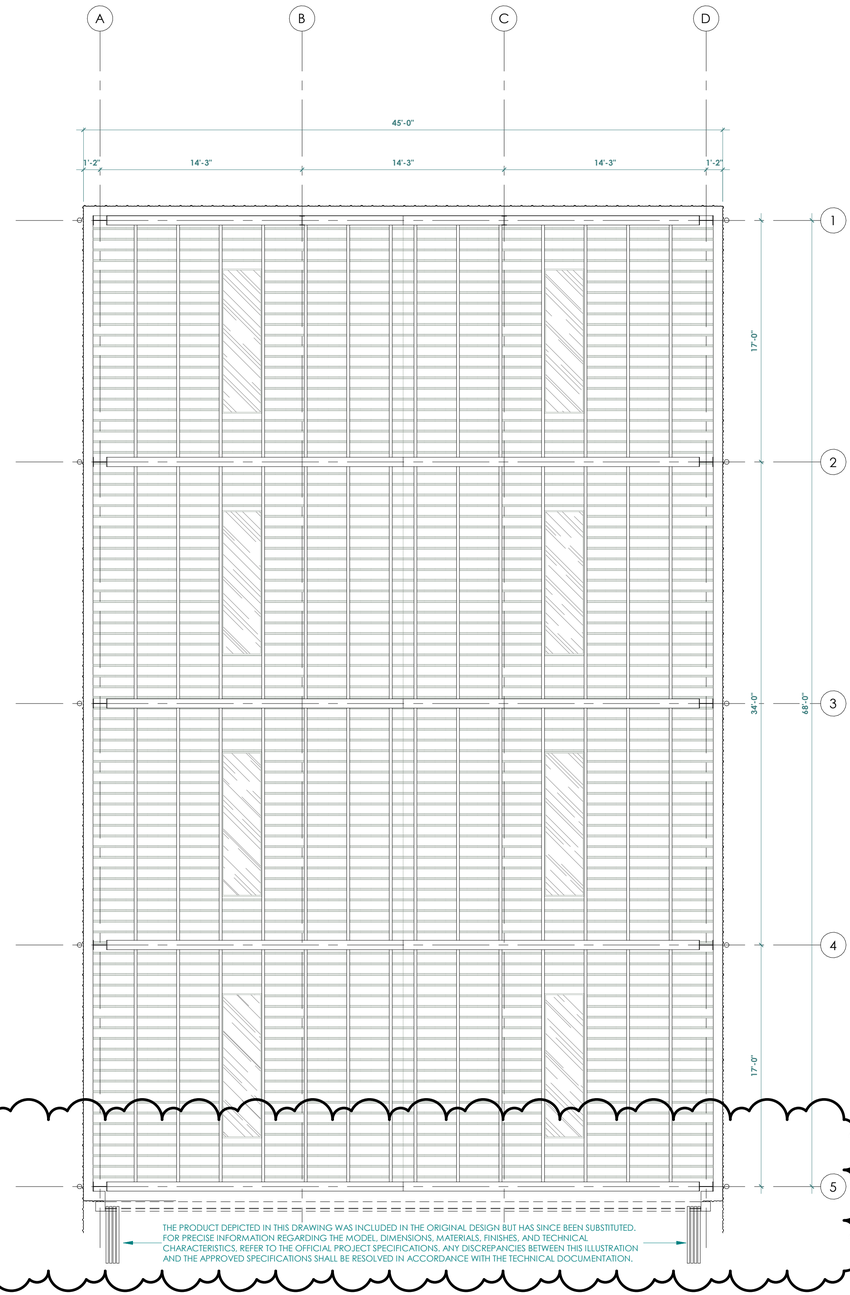
1A-6.1

PUERTO RICO PORTS AUTHORITY | DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION — SAN JUAN, PUERTO RICO



1 2A-1.1 **H2-FLOOR PLAN**

SCALE: 3/16" = 1'-0"



2 2A-1.1 **H2-REFLECTED CEILING**

SCALE: 3/16" = 1'-0"

3

ALTERNATE DOOR
HAGAR #2 DOOR:

SECTION: POWERLIFT HYDRAULIC DOORS
PRODUCT: POWERLIFT HYDRAULIC DOORS, 42' X 16', MANUFACTURED BY POWERLIFT DOOR, OR APPROVED EQUAL

1. GENERAL:
THE HYDRAULIC DOOR SYSTEM SHALL BE DESIGNED FOR INDUSTRIAL HANGAR APPLICATIONS, PROVIDING RELIABLE OPERATION, DURABILITY, AND LONG-TERM PERFORMANCE. THE SYSTEM SHALL BE SUITABLE FOR FREQUENT USE IN LARGE OPENINGS AND COMPATIBLE WITH EXISTING STRUCTURAL CONDITIONS.

2. PRODUCT DESCRIPTION:

TYPE: HYDRAULIC-OPERATED VERTICAL LIFT DOOR

DIMENSIONS: 42' (WIDTH) X 16' (HEIGHT)

MANUFACTURER: POWERLIFT DOOR, OR APPROVED EQUAL

MATERIAL: HEAVY-DUTY STEEL PANELS WITH CORROSION-RESISTANT FINISH SUITABLE FOR EXTERIOR EXPOSURE

OPERATION: HYDRAULIC LIFTING MECHANISM WITH INTEGRATED SAFETY FEATURES

FINISH: MANUFACTURER STANDARD OR AS APPROVED BY PROJECT SPECIFICATIONS

3. PERFORMANCE REQUIREMENTS:

DOORS SHALL OPERATE SMOOTHLY UNDER FULL LOAD CONDITIONS.

HYDRAULIC SYSTEM SHALL INCLUDE OVERLOAD PROTECTION AND FAIL-SAFE MECHANISMS.

DESIGNED TO WITHSTAND WIND LOADS, ENVIRONMENTAL EXPOSURE, AND REPEATED OPERATION IN COMPLIANCE WITH APPLICABLE BUILDING CODES.

MINIMUM DESIGN LIFE OF 20 YEARS WITH REGULAR MAINTENANCE.

4. INSTALLATION:

INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SHOP DRAWINGS.

ENSURE PROPER ALIGNMENT, SMOOTH OPERATION, AND INTEGRATION WITH EXISTING STRUCTURAL OPENINGS.

PROVIDE ALL NECESSARY ANCHORS, FASTENERS, AND HYDRAULIC CONNECTIONS.

5. TESTING & COMMISSIONING:

DOORS SHALL BE TESTED FOR FULL-CYCLE OPERATION PRIOR TO PROJECT CLOSEOUT.

HYDRAULIC SYSTEM AND SAFETY FEATURES SHALL BE INSPECTED AND CERTIFIED BY THE MANUFACTURER OR AUTHORIZED REPRESENTATIVE.

DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION | SAN JUAN, PUERTO RICO

PUERTO RICO PORTS AUTHORITY

RCMDO ARQUITECTOS PSC
316 DE DIEGO AVENUE, SUITE 201
SAN JUAN, PR 00909

ENGINEER:
LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

PORTS AUTHORITY
GOVERNMENT OF PUERTO RICO

SBMT'D: _____ DATE
XXXXXXXXX
CHIEF OF STUDIES AND DESIGNS

RCM'D: _____ DATE
ROMEL PEDRAZA, PE
ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D: _____ DATE
NORBERTO J. NEGRÓN DÍAZ, ESQ.
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
3	10.22.2025	ISSUE FOR BIDDING	

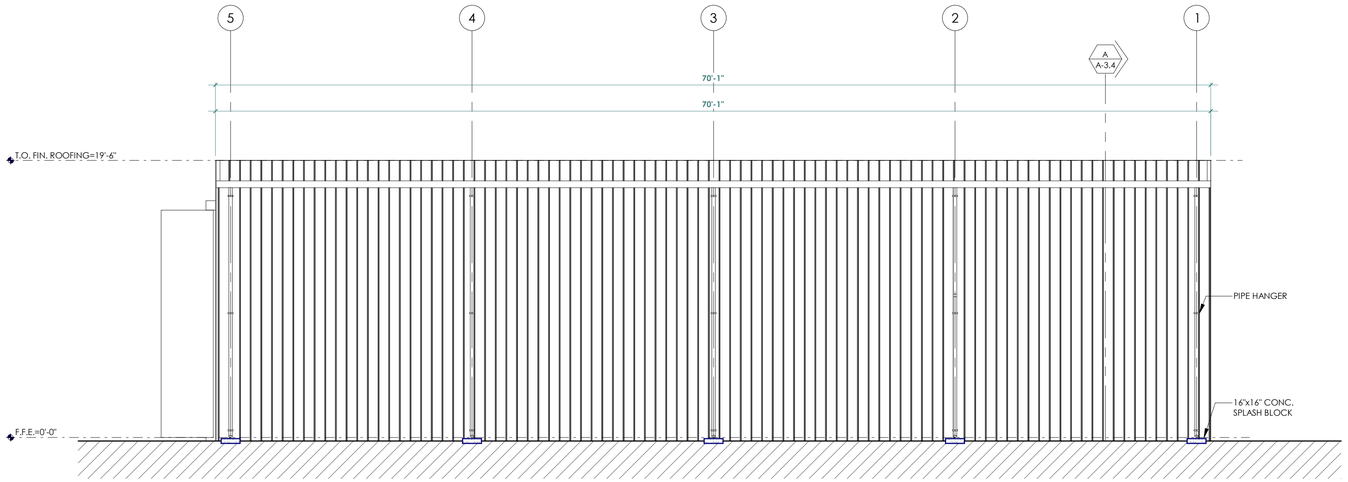
DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

HANGAR 2 - FLOOR PLAN

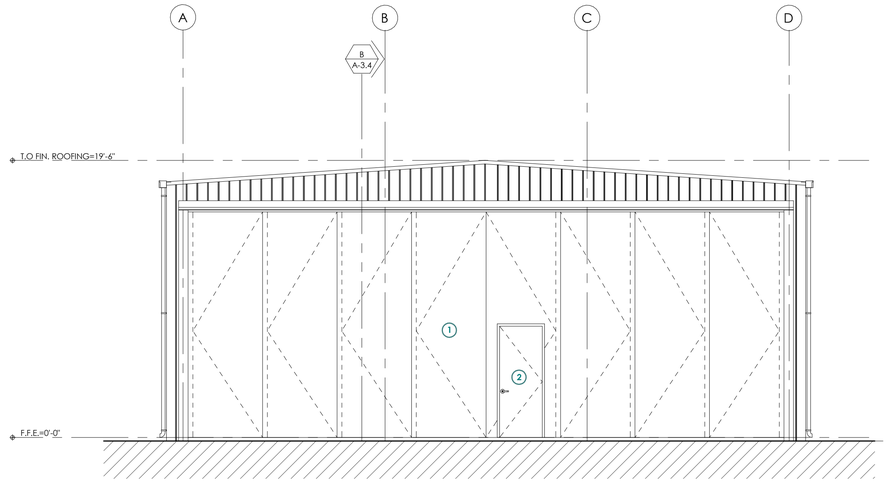
PRPA PROJ NO:	
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	
DATE:	
SCALE:	H V
SHEET NO.	

2A-1.1



1 2A-2.1 **H2-EAST ELEVATION**

SCALE: 3/16" = 1'-0"

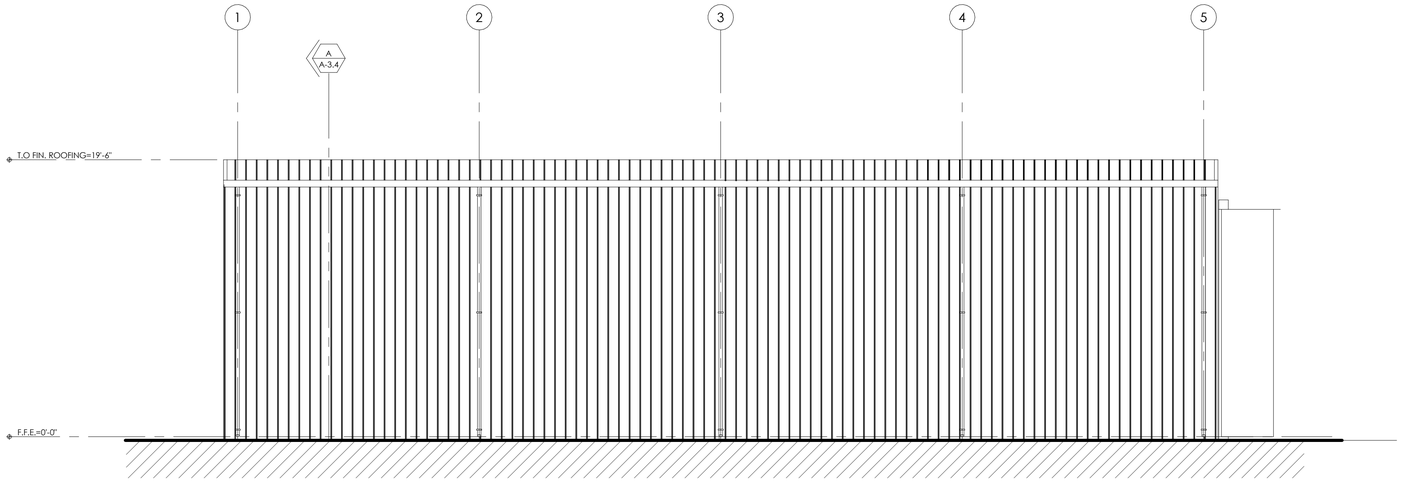


3 2A-2.1 **H2-SOUTH ELEVATION**

SCALE: 3/16" = 1'-0"

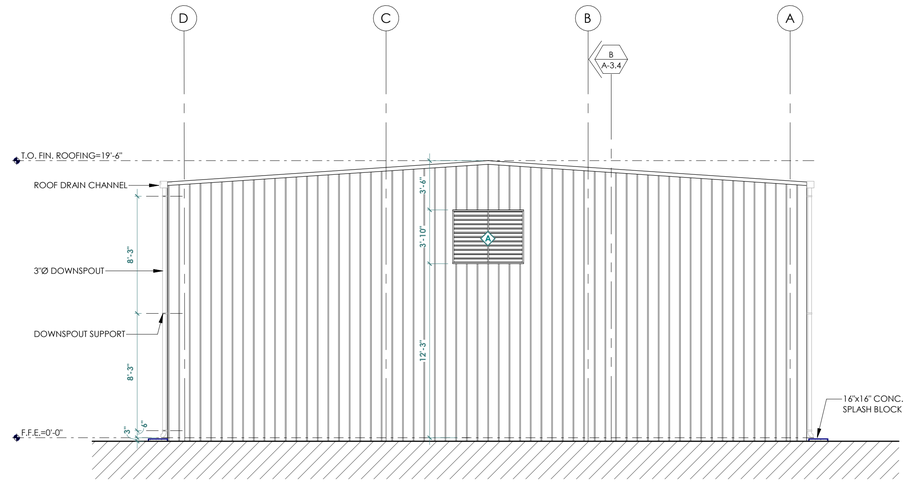
THE PRODUCT SHOWN IN THIS DRAWING IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY AND SHOULD NOT BE CONSIDERED A DEFINITIVE REPRESENTATION. FOR ACCURATE INFORMATION REGARDING DIMENSIONS, MATERIALS, FINISHES, AND OTHER TECHNICAL CHARACTERISTICS, REFERENCE SHOULD BE MADE TO THE PRODUCT SPECIFIED IN THE OFFICIAL PROJECT DOCUMENTS. ANY DISCREPANCIES BETWEEN THIS ILLUSTRATION AND THE OFFICIAL SPECIFICATIONS SHALL BE RESOLVED IN ACCORDANCE WITH THE TECHNICAL DOCUMENTATION.

3



2 2A-2.1 **H2-WEST ELEVATION**

SCALE: 3/16" = 1'-0"



4 2A-2.1 **H2-NORTH ELEVATION**

SCALE: 3/16" = 1'-0"

PUERTO RICO PORTS AUTHORITY – DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION – SAN JUAN, PUERTO RICO

RCMDO ARQUITECTOS PSC
316 DE DIEGO AVENUE, SUITE 201
SAN JUAN, PR 00909

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

PORTS AUTHORITY
GOVERNMENT OF PUERTO RICO

SBM'T: XXXXXXXXX CHIEF OF STUDIES AND DESIGNS		DATE
RCM'D: ROMEL PEDRAZA, PE ASST. EXEC. DIR. ENG., CONST. & PLAN		DATE
APP'D: NORBERTO J. NEGRÓN DÍAZ, ESQ. EXECUTIVE DIRECTOR		DATE

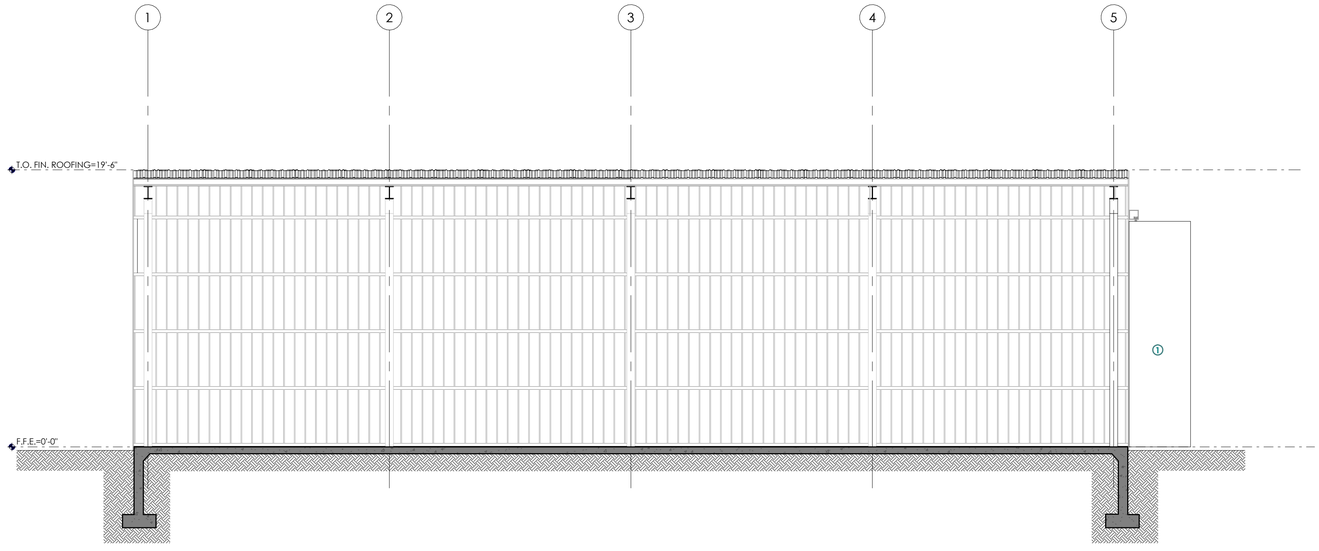
NO.	DATE	ISSUE DESCRIPTION	BY
3	10.22.2025	ISSUE FOR BIDDING	

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

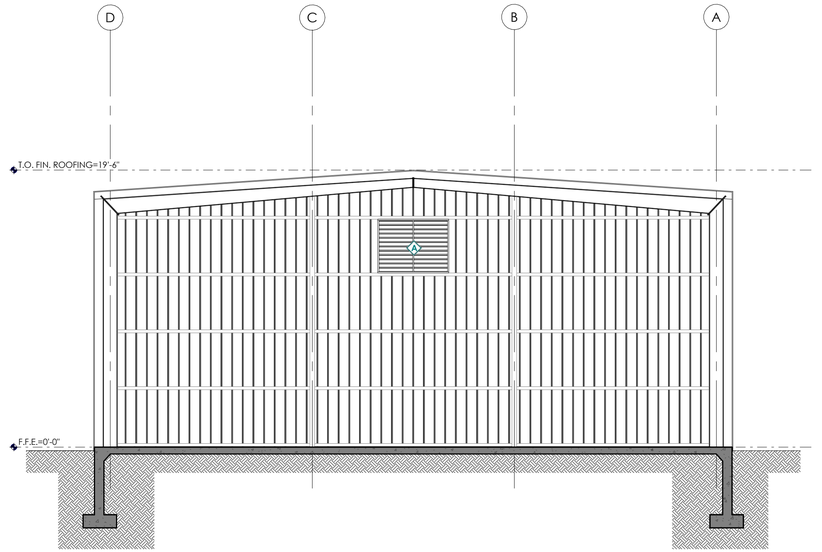
HANGAR 2 - EXTERIOR ELEVATIONS

PRPA PROJ NO:	
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	
DATE:	
SCALE:	H V
SHEET NO.	2A-2.1



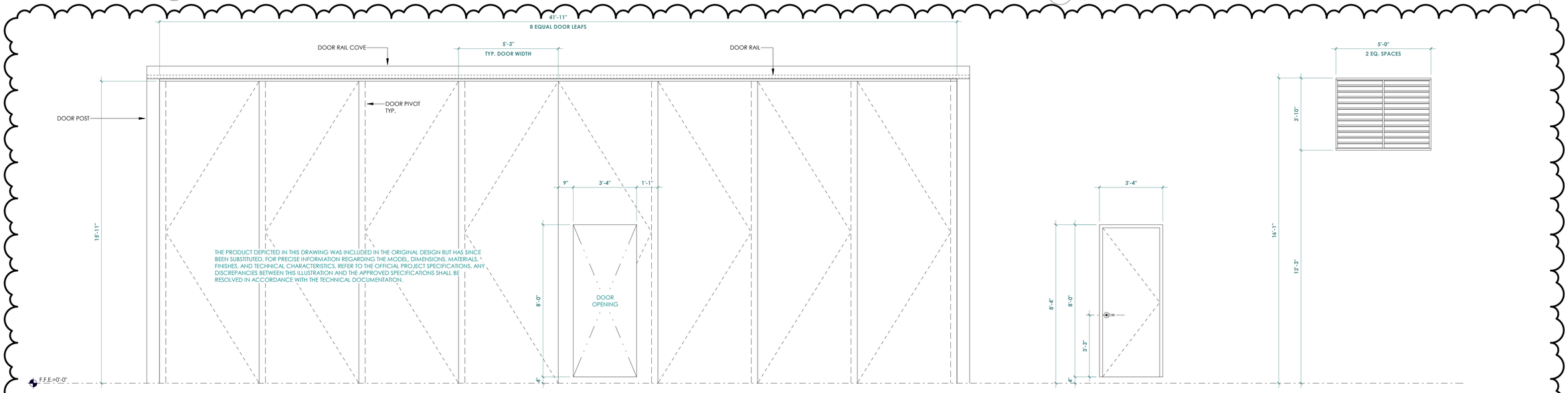
1 2A-3.1 H2-SECTION A

SCALE: 3/16" = 1'-0"



2 2A-3.1 H2-SECTION B

SCALE: 3/16" = 1'-0"



3 2A-3.1 DOORS AND WINDOW TYPES

SCALE: 3/8" = 1'-0"

HOLLOW METAL HANGAR DOOR ①

HOLLOW METAL DOOR ②

FIXED LOUVER Ⓐ

DOOR SCHEDULE

TYPE	DOOR OPENING		OPERATION	FRAME	LEAF (S)	MATERIAL	DOOR HARDWARE	# OF UNITS TO BE INSTALLED	COMENTS
	WIDTH	HEIGHT							
1	41'-11"	15'-11"	PROJECTED	METAL	1	METAL		1	WITH OPENING FOR PEDESTRIAN EXIT
2	3'-4"	8'-0"	RHR	METAL	1	METAL		1	

WINDOW SCHEDULE

TYPE	WINDOW OPENING		# OF UNITS	HEIGHT FROM A.F.F.	FRAME MULLIONS	MATERIALS	TYPE	FINISHING	COMMENTS
	WIDTH	HEIGHT							
A	5'-0"	3'-10"	1	12'-3"	WHITE COLOR	ALUMINUM	FIXED LOUVER	ALUMINUM	2 EQUAL SPACES

DIRECTORATE OF PLANNING ENGINEERING AND CONSTRUCTION – SAN JUAN, PUERTO RICO

PUERTO RICO PORTS AUTHORITY

RCMDO ARQUITECTOS PSC
316 DE DIEGO AVENUE, SUITE 201
SAN JUAN, PR 00909

ENGINEER:

LADISLAO ORTIZ & ASOCIADOS INGENIEROS, CSP
334 AVE. AMERICO MIRANDA,
SAN JUAN, PUERTO RICO 00927-0122
T: 787.767.7337 F: 787.767.7636

PORTS AUTHORITY
GOVERNMENT OF PUERTO RICO

SBMT':
XXXXXXXXX — DATE
CHIEF OF STUDIES AND DESIGNS

RCM'D:
ROMEL PEDRAZA, PE — DATE
ASST. EXEC. DIR. ENG., CONST. & PLAN

APP'D:
NORBERTO J. NEGRÓN DÍAZ, ESQ. — DATE
EXECUTIVE DIRECTOR

NO.	DATE	ISSUE DESCRIPTION	BY
1	9.4.2025	ISSUE FOR BIDDING	
3	10.22.2025	ISSUE FOR BIDDING	

DR-4339-PR HURRICANE MARIA DISASTER RECOVERY

MPPA057 HUMACAO REGIONAL AIRPORT (HUC)
HUMACAO, PUERTO RICO

HANGAR 2 - GENERAL SECTIONS AND DOOR & WINDOW TYPES & SCHEDULES

PRPA PROJ NO:	
DRAWN BY:	
DESIGNED BY:	
CHECKED BY:	
DATE:	
SCALE:	H V
SHEET NO.	2A-3.1