U.S. Department of Housing and Urban Development
451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5 Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón (PR-CRP-000847)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

State/Local Identifier: Puerto Rico/Cabo Rojo

Preparer: Genevieve Kaiser, Senior Environmental Planner/GIS Specialist, Tetra Tech, Inc.

Certifying Officer Name and Title:
Aldo A. Rivera Vázquez- Director- Permits and Environmental Compliance Division
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Javier Mercado-Barrera: Permits and Environmental Compliance Specialist
Priscilla Toro-Rivera - Environmental Compliance Specialist

Grant Recipient (if different than Responsible Entity)**:** Municipal Government of Cabo Rojo

Consultant (if applicable)**:** Tetra Tech, Inc.

Direct Comments to: Puerto Rico Department of Housing (environmentcdbg@vivienda.pr.gov)

Project Location: Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street (State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 006222
Lambert Coordinates (Datum NAD 83) Lat:18.02495959, Lon: -67.17316662
Cadastre No. 380-013-010-01

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**

The Municipality of Cabo Rojo proposes the development of a project under the concept of public installations, with the purpose of rehabilitating the Boquerón town area located from PR-101 km. 18.6 to km. 19.7. See Attachment A- Figures 1 and 2 for specific project location.

The proposed work includes:

- Repaving of four (4) municipal streets: Hermógenes Pou Street, Barbosa Street, Severiano Carlos Street, and Gil Bouyet Street, and two (2) state roads, José de Diego Street and Luis Muñoz Rivera Street (both segments of State Road PR-101), and rehabilitation of its sidewalks and curbs. The anticipated excavation depth for this activity is approximately 1'-6".
- Replacement, rehabilitation, and installation of new luminaries and poles, including but not limited to evaluating the functionality of the public lighting luminaire, straightening of posts, replacement of damaged posts, and installation of missing posts. The anticipated maximum excavation depth for this activity is approximately 6'-0".
- Installation of the Boquerón emblematic letter sign at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Installation of a memorial plaque geometry at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Installation of a circular Boquerón sign on a squared concrete platform at the entrance of Poblado Boquerón. The anticipated excavation depth for this activity is up to 3'-0".
- Landscape restoration, enhancement, new tree planters, and greening of selected spaces. The anticipated excavation depth for this activity is approximately 3'-0".
- Elimination of architectural barriers that affect disabled people, in compliance with ADA law, with applicable signs, and painting.
- Demolition of 300 square feet of concrete pavement and 15,236 square feet of plastic floor surface. These areas will be resurfaced with concrete at an anticipated maximum excavation depth for this activity of 18" at sidewalks and curbs.

The proposed activities are located within the footprint, they aim to rehabilitate the existing ones and do not exceed 20% of the improvements.

For more specific details of the project see Attachment G- Design Plans.

Level of Environmental Review Determination:

The proposed projects is Categorically Excluded per 24 CFR 58.35(a) (3) (iii), and subject to §58.5: (1) Acquisition, repair, improvement, reconstruction, or rehabilitation of public facilities and improvements (other than buildings) when the facilities and improvements are in place and will be retained in the same use without change in size or capacity of more than 20 percent (e.g., replacement of water or sewer lines, reconstruction of curbs and sidewalks, repaving of streets)

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001	CDBG-DR	$11,938,162,230
B-18-DP-72-0001		
B-19-DP-78-0002		
B-18-DE-72-0001		

Estimated Total HUD Funded Amount: $766,152.63

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**: $766,152.63**

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	The project is not located within an Accident Potential Zone (APZ) or Runway Protection Zone/Clear Zone (RPZ/CZ). The project will not affect any airports and is in compliance with HUD airport hazard regulations. No additional evaluation is required. The project site is located 84,107 feet from the nearest civilian airport, Eugenio María de Hostos de Mayagüez Airport (MAZ) in Mayagüez, PR. The nearest military airport/heliport is located at Fort Buchanan at 388,085 feet from the project site. (See Attachment A-Figure 3) The project is in compliance with Airport Hazards requirements as per 24 CFR Part 51 Subpart D. Source: Federal Aviation Administration (FAA) Airports and Heliports
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The project meets the requirements for coastal barrier resources. The project is not located in a coastal barrier coastal resource area. This project would not affect a CBRS unit. The distance from the project to the nearest CBRS zone is 214 Ft. (See Attachment A-Figure 4) The project is in compliance with Coastal Barrier Resources Act, as amended by the

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		Coastal Barrier Improvement Act of 1990 [16 USC 3501]. Source: https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☒ No ☐	The project site is located within the FEMA-designated AE zone, a flood hazard area. Flood insurance would be obtained and maintained for all insurable elements. Therefore, the project is in compliance with the Flood disaster Protection Act of 1973 and Flood Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]. (See Attachment A- Figure 5) Source: Flood Insurance Rate Map 72000C1545J. Effective Date: 11/18/2009
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The proposed project site is not located within an air quality non-attainment area. (See Attachment C- Contamination and Toxic Substances) The closest air quality non-attainment areas are: 1. Lead Nonattainment Area in the municipality of Arecibo is approximately 33 miles east of the project site. 2. The Ponce SO_2 Nonattainment Area is approximately 63 miles southeast of the project site. 3. San Juan-Guaynabo SO_2 Nonattainment Area is approximately 81 miles east–northeast of the project site. 4. A PM_{10} Maintenance Area is located approximately 80 miles north- northeast of the project site. The project is in compliance with Clean Air as amended, particularly section 176(c) &

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		(d); 40 CFR Parts 6, 51, 93 requirements. Source: https://nepassisttool.epa.gov/nepassist/nepamap.aspx
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☒ No ☐	The Puerto Rico Planning Board is the agency in charge of the implementation of the Coastal Management Program in Puerto Rico. The scope of application or jurisdiction of the Coastal Zone Management Program is defined as: a one kilometer (1 km) strip inland, as well as additional distances necessary to include key coastal natural systems. The marine component of the coastal zone extends three (3) nautical leagues (9 nautical miles or 10.35 statute miles), the ocean floor below them, as well as all the islands and keys within the territorial waters. The proposed project is located within the coastal zone. The proposed action will not directly, indirectly, or cumulatively affect any natural resources, land uses, or water uses in the coastal zone. (See Attachment A- Figure 6 and Attachment B- Coastal Zone Management). The Puerto Rico Planning Board in a meeting held March 6, 2024; emitted a Federal Consistency Certification with the Puerto Rico Coastal Zone Management Program (PRCZMP), for the project to be financed with federal assistance with CDBG funds. A coastal consistency determination was granted by the Planning Board on March 21, 2024. (See Attachment B- Coastal Zone Management). The proposed project is in compliance with the Coastal Zone Management Act, sections 307(c) & (d).

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		Source: Coastal Consistency Determination with the Puerto Rico Coastal Zone Management Program granted by the Planning Board
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	According to EPA NEPAssist, no known hazardous materials, contamination, toxic chemicals, gases, or radioactive substances are on the project site. NEPAssist also found no superfund or brownfield sites at the project site. Two sites were found within the 0.5-mile radius of the project: RCRA site "Modern Man Dry Cleaners" and NPDES site "Las Casitas de Boquerón". The RCRA site is reported to have no violations in the last three years, and the NPDES site is reported to have no violations of the Clean Water Act in the last three years. Based on the nature of the project site and proposed activities, compliance history, and distance, these facilities would have no effect on the project. (See NEPA Assist Map and ECHO site reports included in Attachment C-Contamination and Toxic Substances). A Lead Based Paint (LBP) survey conducted on May 24, 2024, found three (3) positive components: one (1) fire hydrant and two (2) metal poles with LBP. LBP abatement will be performed by a DNRE certified contractor prior to any work at the project site. Removed paint will be disposed at an DNRE/EPA approved final disposal facility. (See report included in Attachment C-Contamination and Toxic Substances). An Asbestos Containing Materials (ACM) Inspection conducted on May 23, 2024, included visual assessment, sampling and physical assessments of suspect ACM materials to identify materials that contain

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		asbestos fibers above allowable levels that could cause harm to construction personnel and workers. The ACM report dated May 25, 2024, indicated that suspect asbestos containing materials were not found during this inspection. HUD issued Notice CPD-23-103 on January 11, 2024, regarding Departmental Policy for Addressing Radon in the Environmental Review Process. The Notice intends to clarify that radon must be considered in the Environmental Review analysis for all HUD funded projects. The project does not involve occupancy within enclosed buildings; therefore, radon is not a consideration for this project. There would be no increase in risk associated with the proposed project. Therefore, this topic complies with the regulation. A site visit was performed by William Melendez, PE, on January 5, 2024. The inspection identified no environmental hazards associated with the project site. Source: https://nepassisttool.epa.gov/nepassist/nepamap.aspx Lead Based Paint Inspection Report, conducted May 23, 2024, by Innovate Corp.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☒ No ☐	A review of US Fish and Wildlife Service (IPAc Website Database for the proposed project provided a resource list of endangered species that might potentially be affected by the proposed project. These are: • Puerto Rican Boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) Endangered. • Hawksbill Sea Turtle (*Eretmochelys imbricata*) Endangered.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		• Leatherback Sea Turtle (*Dermochelys coriacea*) Endangered. • Loggerhead Sea Turtle (*Caretta carretta*) Threatened. • West Indian Manatee (*Trichechus manatus*) Threatened. • Green Sea Turtle (*Chelonia mydas*) Threatened. • Olive Ridley Sea Turtle (*Lepidochelys olivacea*) Threatened. • Cobana Negra (*Stahlia monosperma*) Threatened. No critical habitats exist for the referenced species within the project area. Informal consultation conducted with US Fish and Wildlife Service (USFWS) was initiated with a letter dated June 27, 2023, indicating that the project would have no effect (NE) on the Puerto Rican boa and be not likely to adversely affect (NLAA) the other listed species. On August 29, 2023, USFWS acknowledged receipt of the NE determination for the PR boa, indicating that formal or informal section 7 consultation with USFWS is not required, and UAFWS is not required to concur with the NE determination. The letter advised that sea turtle conservation measures include lighting restrictions or requirements, and the proposed street lighting does not comply with the required sea turtle friendly lighting design. The letter also stated that the project should also comply with Puerto Rico Law 218 of 2008, Control and Prevention of the Lighting Pollution of Puerto Rico and the PR EQB 2014 Regulation to Control and Prevent Light Contamination. On November 23,2023, PRDOH provided revised lighting

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		plans that addressed USFWS concerns. In a January 30, 2024, letter USFWS responded that the new design will minimize light pollution, sky glow and existing deficiencies. Since all work will be within the developed areas of Boquerón, USFWS does not foresee any adverse impacts to listed species with the use of this lighting design. (See Attachment D- Endangered Species). Source: US Fish & Life Service Information for Planning and Consultation IPAc Resource List and Biological Assessment conducted by Quantum Consulting Group, LLC, included in Attachment D.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The project will not result in an increase in the number of people exposed to hazardous operations by increasing residential density, converting the type of use of a use of a building to residential, or occupying a vacant. The project does not involve explosive or flammable materials or operations. A site visit was performed by William Melendez, PE, on January 5, 2024. The site visit identified no above ground storage tanks in the vicinity of the project site. Examination of the aerial views and street views shows no above ground storage tanks within one mile of the project site. (See Attachment A- Figure 7). The project is in compliance with Explosive and Flammable Hazards 24 CFR Part 51 Subpart C requirements. Source: USEPA NEPAssist https://nepassisttool.epa.gov/nepassist/nepamap.asp

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The project to be carried out is on urbanized land. The project will not require the conversion of agricultural land to non-agricultural uses. (See Attachment A- Figure 8) The project is in compliance with Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658 requirements. Source: Web Soil Survey (http://usda.gov)
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The proposed activity with dimensions of 8.94 acres is situated in combined zones, 5.36 acres in 100-yr floodplain zone AE, 2.43 acres in coastal zone A 100-yr floodplain, 0.17 acres in 100-yr floodplain zone VE, and 0.98 acres in zone X outside the 100-yr floodplain, according to Advisory Base Flood Elevation (ABFE) Panel No. 72000C0145J effective date April 13, 2018. (See Attachment A- Figure 9) The Municipality of Cabo Rojo has completed the Eight (8) Step Decision Making Process to comply with the floodplain management requirements of 24 CFR 55.20. The early notice was published in in newspaper "El Vocero" on December 12, 2023, and no comments were received. The final Notice and Public Explanation was published in newspaper "Primera Hora" on March 1, 2024, and no comments were received. It was determined that there is no practicable alternative for partially locating the project in the flood zone. (See Attachment E). Potential impacts to the floodplain will be limited due to construction occurring within the previously developed site. Potential adverse impacts from construction would be temporary and mitigated through

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		construction staging plans developed in partnership with the Cabo Rojo Municipality to minimize disturbance throughout the construction period and at the end of the project. The proposed project will be connected to the existing infrastructure systems to minimize adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora and fauna habitat in the floodplain. (See Attachment E). The project is in compliance with Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55 requirements. Source: Advisory Base Flood Elevation (ABFE) Panel No. 72000C0145J effective date April 13, 2018 Floodplain Management 8-Step Decision Making Process included in Attachment E
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	The project actions will not affect any historic properties within the undertaking's Area of Potential Effect. An initial Section 106 NHPA Effect Determination, was submitted by PRDOH to the State Historic Preservation Office (SHPO) on July 9, 2024. SHPO concurred with PRDOH's finding that the proposed project will have no adverse effect on historic properties for this undertaking, conditioned to archaeological monitoring during ground disturbing activities for the project, as stated in letter dated August 2, 2024. On February 19, 2025, the archaeological monitoring plan was submitted to SHPO, and on March 31, 2025, SHPO indicated that the plan is deemed acceptable. (See Attachment F- Historic

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		Preservation). The project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800. Source: SHPO Consultation and Section 106 NHPA Effect Determination, included in Attachment G
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	HUD guidance at 24 CFR Part 51 requires review of potential noise generators in the vicinity of a project site, including major roadways within 1,000 feet, railroads within 3,000 feet, and military or Federal Aviation Administration regulated airfields within 15 miles. According to the HUD Noise Guidebook, the acceptable day/night noise level (DNL) is 65 decibels (dB). The purpose of this review is to ascertain the impacts of existing noise sources in the area on new residents or other sensitive receptors. The project does not include an increase in residents, or introduction of other noise-sensitive uses. The project involves the rehabilitation of existing non-residential infrastructure for non-residential use. The project does not require further evaluation under HUD's noise regulation. Therefore, this project complies with the regulations. The project is in compliance with the Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	The project is not served by a US EPA designated sole-source aquifer, is not located within a sole source aquifer watershed, and would not affect a sole-source aquifer subject to the HUD EPA MOU. The closest sole source aquifer is in Florida

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		approximately 1200 miles (6,000,000 feet) from the project site. (See Attachment A- Figure 10). The project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149. Source: US EPA SSA Locations: United States Environmental Protection Agency Webapp Viewer https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	According to the National Wetlands Inventory Map, the proposed project is approximately 36 feet from an estuarine and marine wetland and approximately 122 feet from an estuarine and marine deepwater wetland. (See Attachment A- Figure 11). As described in the 8-Step Decision Making Process the project would not affect the nearby wetlands. An erosion and sedimentation control plan will be put in place to prevent impacts to nearby wetlands. See CES Plan details in Attachment G- Design Plans. The project is in compliance with Wetlands Protection requirements. Source: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	Puerto Rico has three rivers designated as wild & scenic. These rivers are Rio de la Mina, Rio Icacos and Rio Mameyes. There are no wild and scenic rivers located within the Municipality of Cabo Rojo, PR. The nearest wild river is approximately 92 miles (485,760 feet) in distance. (See Attachment

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
		A- Figure 12) The project meets Wild and Scenic Rivers requirements. Source: U.S. Forest Service (http://data.fs.usda.gov)
Environmental Justice Executive Order 12898	Yes ☐ No ☐	On January 21, 2025, President Donald Trump issued the Executive Order 14173, titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Field Inspection by: Wiliam Melendez, PE **Date: 1/5/2024**

Summary of Findings and Conclusions: The project consists of the rehabilitation of the proposed area with existing infrastructure located in an urbanized area. Mitigation activities will be required as described below.

PRSHPO found that the subject project, as proposed, would exert no adverse effect on historic properties within its area of potential effects, conditioned upon following the approved archaeological monitoring plan. The project cannot convert to exempt because of the no adverse effect finding versus a no historic properties affected finding.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Flood Insurance	Flood insurance would be obtained and maintained for all insurable elements.
Coastal Zone Management	A coastal consistency determination was granted by the Planning Board on March 21, 2024.
Contamination and Toxic Substances	The Lead Based Paint (LBP) survey conducted on May 24, 2024, found three (3) positive components: one (1) fire hydrant and two (2) metal poles with LBP. LBP abatement will be performed by a DNRE certified contractor prior to any work at the project site. Removed paint will be disposed at an DNRE/EPA approved final disposal facility.
Endangered Species	If a Puerto Rican Boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. If a boa needs to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa conservation measures guidelines and the July 27, 2023, amended programmatic biological opinion.

Floodplain Management	The Municipality of Cabo Rojo has completed the Eight (8) Step Decision Making Process to comply with the floodplain management requirements of 24 CFR 55.20. Potential impacts to the floodplain will be limited due to construction occurring within the previously developed site. Potential adverse impacts from construction would be temporary and mitigated through construction staging plans developed in partnership with the Cabo Rojo Municipality to minimize disturbance throughout the construction period and at the end of the project. The proposed project will be connected to the existing infrastructure systems to minimize adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora and fauna habitat in the floodplain.
Historic Preservation	Archaeological monitoring during ground disturbing activities will be conducted as described in the archaeological monitoring plan approved by SHPO on March 31, 2025.
Noise Abatement and Control	Implementation of Construction Noise Controls for heavy equipment and work schedule during working hours would reduce construction noise levels.
Wetlands Protection	An erosion and sedimentation control plan will be put in place to prevent impacts to nearby wetlands.

Determination:

☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project, OR

☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain "Authority to Use Grant Funds"** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds, OR

☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature: Genevieve Kaiser Date: 5/6/2025

Name/Title/Organization: Genevieve Kaiser, Senior Environmental Planner/GIS Specialist, Tetra Tech, Inc.

Responsible Entity Agency Official

Signature: _____ Date: 5/8/2025

Name/Title: Priscilla M. Toro Rivera/ Environmental Specialist

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

List of Attachments

Attachment A- Figures

Figure 1- Project Location-Topographic Quadrangle

Figure 2- Project Location- Aerial Photograph

Figure 3- Airport Map

Figure 4- Coastal Barriers Resources Map

Figure 5- FEMA Flood Insurance Rate Map

Figure 6- Coastal Zone Map

Figure 7- Explosive and Flammable Hazards Review Area Map

Figure 8- Farmland Soil Map

Figure 9- Advisory Base Flood Elevation Map

Figure 10- Sole Source Aquifers Map

Figure 11- Wetlands Map

Figure 12- Wild and Scenic Rivers Map

Attachment B- Coastal Zone Management

Attachment C- Contamination and Toxic Substances

Attachment D- Endangered Species

Attachment E- Floodplain Management

Attachment F- Historic Preservation

Attachment G- Design Plans

Attachment A

Figures

Figure 1- Topographic Location Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



Legend:

Site

Source: United States Geological Survey, Puerto Real, P.R. N1800-W6707.5/7.5 1966
Spatial Reference WGS 84

Figure 2- Site Location Aerial Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



Legend:

Site

0 0.1 0.2 mi

Source: Google Satellite
Spatial Reference WGS 84

Figure 3- Airport Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



Legend:

Airports
Distance
Project Location
Site

0 7.5 15 mi

source: https://adds-faa.opendata.arcgis.com/datasets/faa::airports-1/about
Image: Google Satellite
Spatial Reference: WGS 84

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

Figure 4- Coastal Barriers Resources Map
PR-CRP-000847
Rehabilitación y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



August 1, 2023

CBRS Buffer Zone

System Unit

CBRS Units

Otherwise Protected Area

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

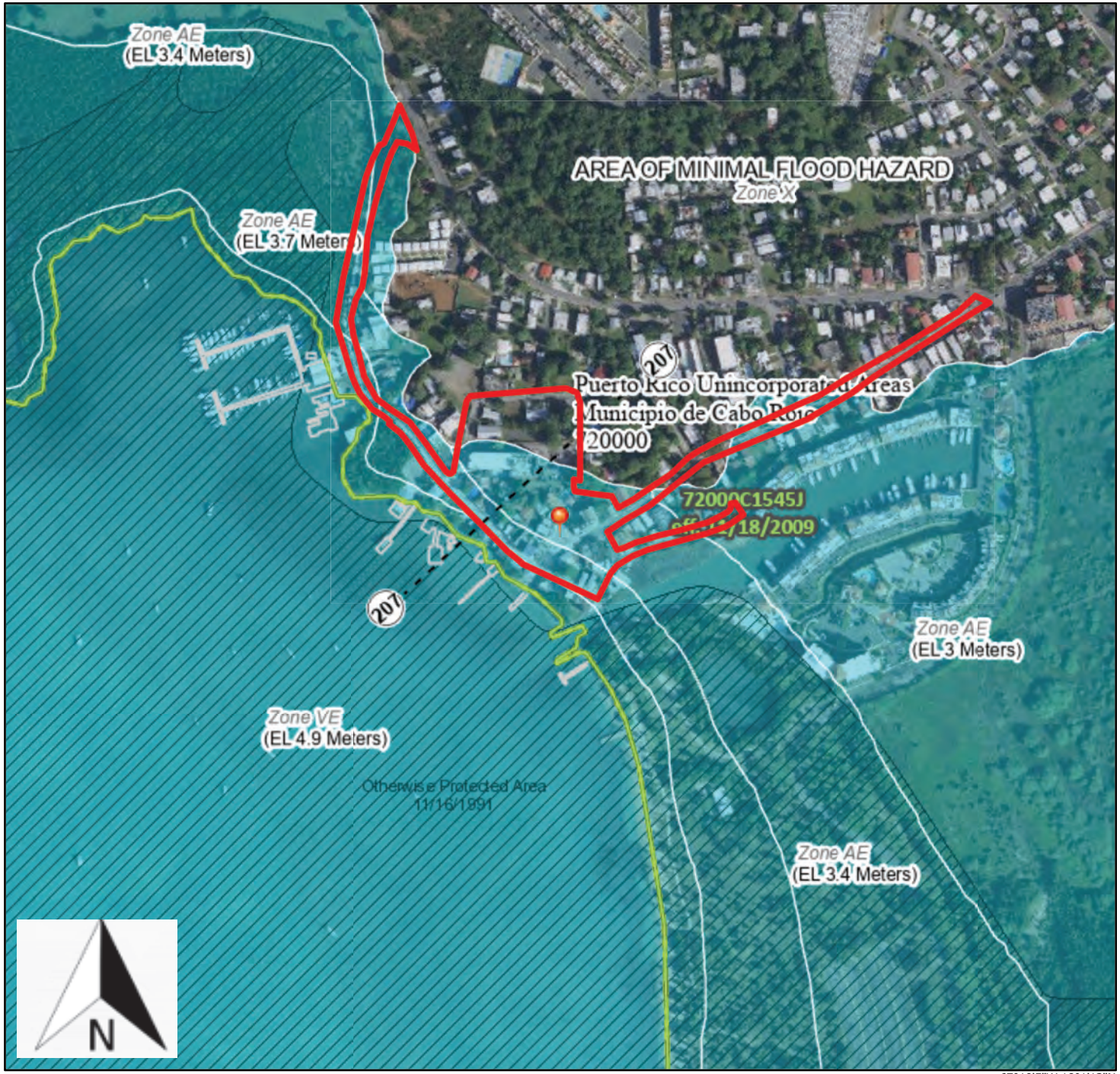
The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward

This page was produced by the CBRS Mapper

Figure 5- National Flood Hazard Layer FIRMette
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

67°10'42"W 18°1'47"N



67°10'5"W 18°1'13"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

Project Site Boundary

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/22/2023 at 9:16 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Figure 6- Coastal Zone Map
PR-CRP-000847
Rehabilitación y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

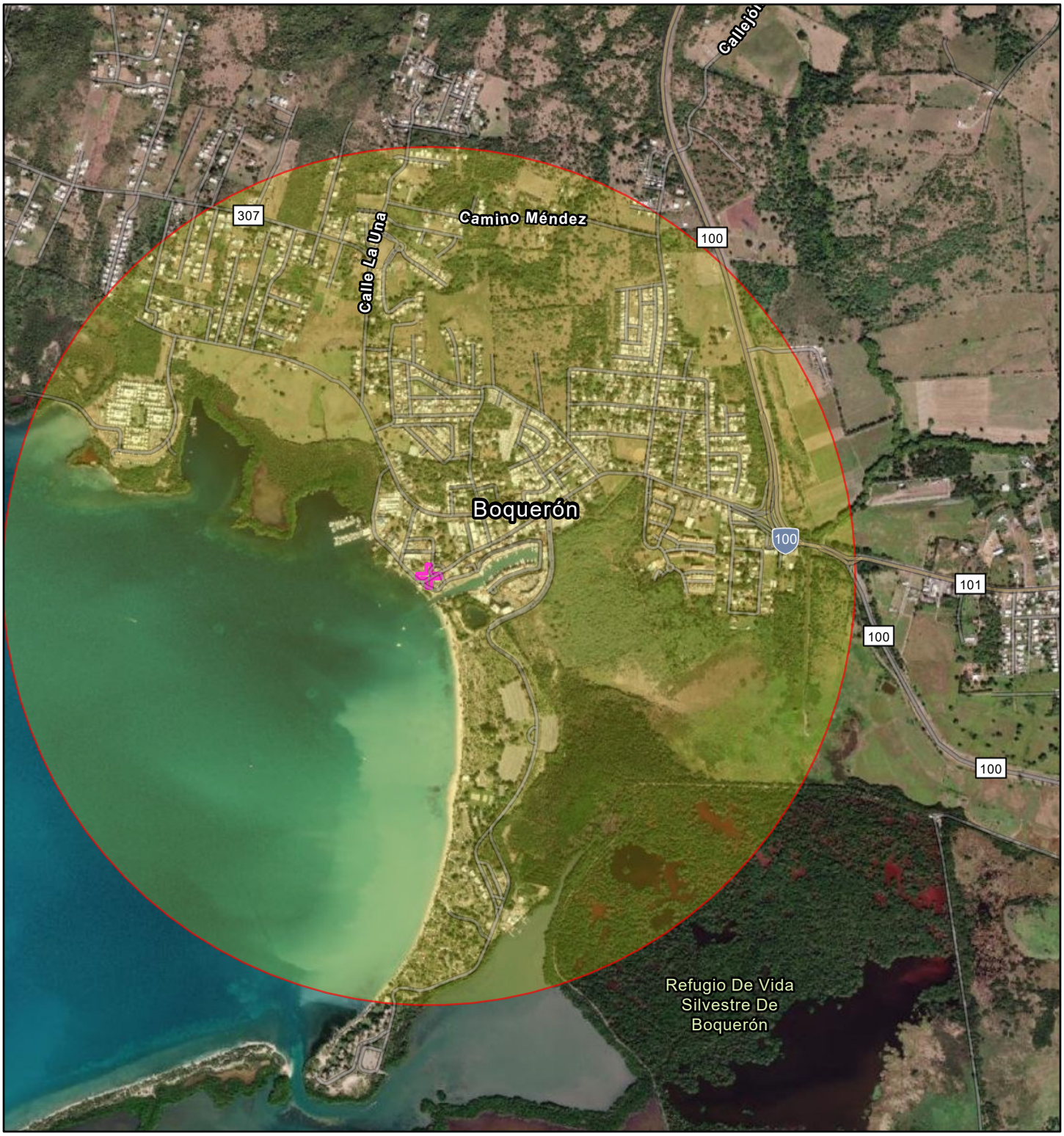


Legend:

- Project Location
- Coastal Zone Conservation

Source: Coastal Zone Conservation Areas (Shapefile) PR.GOV GIS Database (Effective Date: 2010)
Spatial Reference: WGS 84
Image: Google Satellite

Figure 7- Explosive and Flammable Hazards Review Area Map



April 8, 2025

1:22,000

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

1-Mile Project Buffer

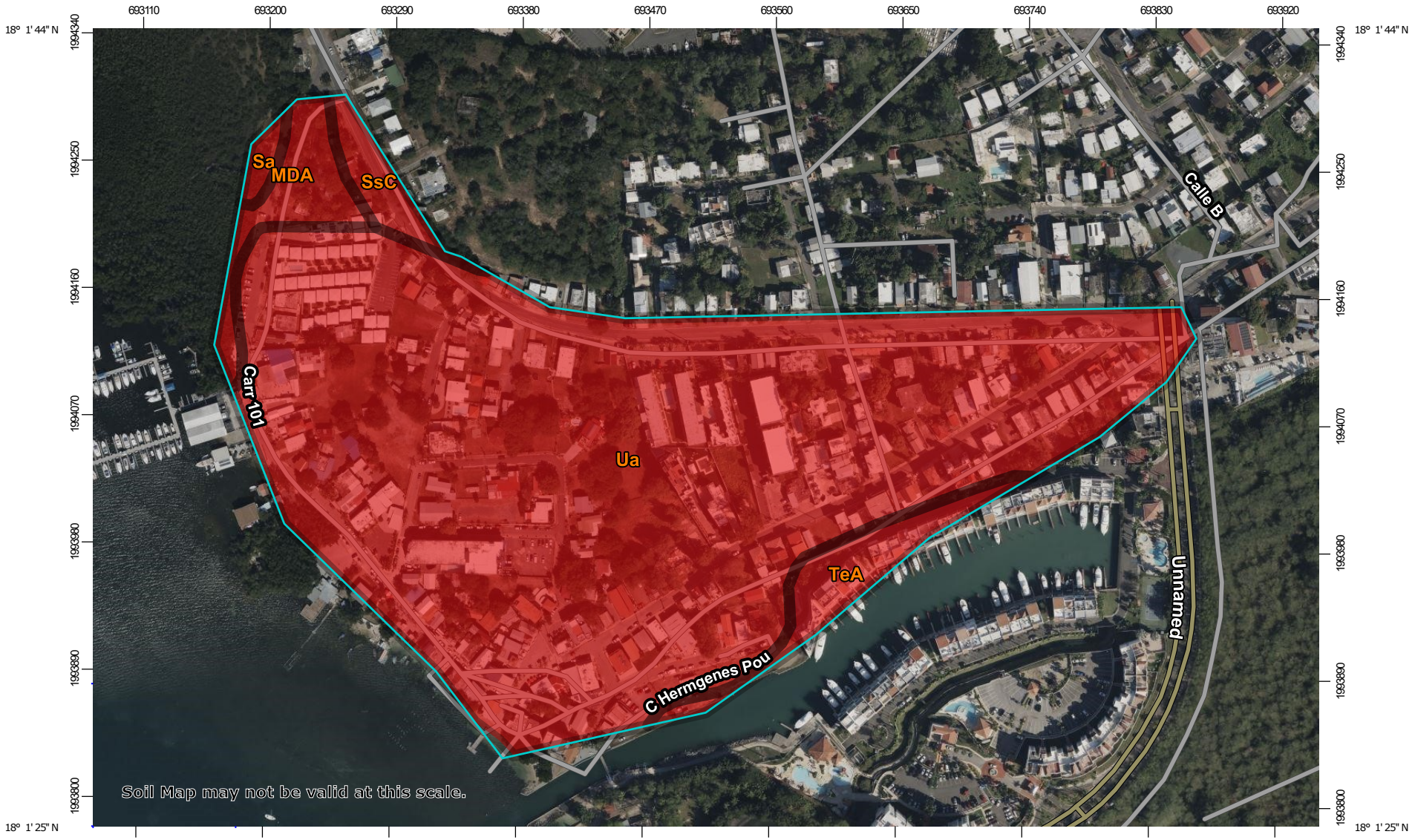
Rehabilitacion y Embellecimiento del Poblado Boqueron PR-CRP-000847

Figure 7- Explosive and Flammable Hazards Review Area Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Kadaster Netherlands, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS
https://nepassisttool.epa.gov/nepassist/nepamap.aspx

Figure 8-Farmland Soil Map
PR-CRP-000847
Rehabilitación y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street
(State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

Farmland Classification—San German Area, Southwestern Puerto Rico



Map Scale: 1:3,990 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

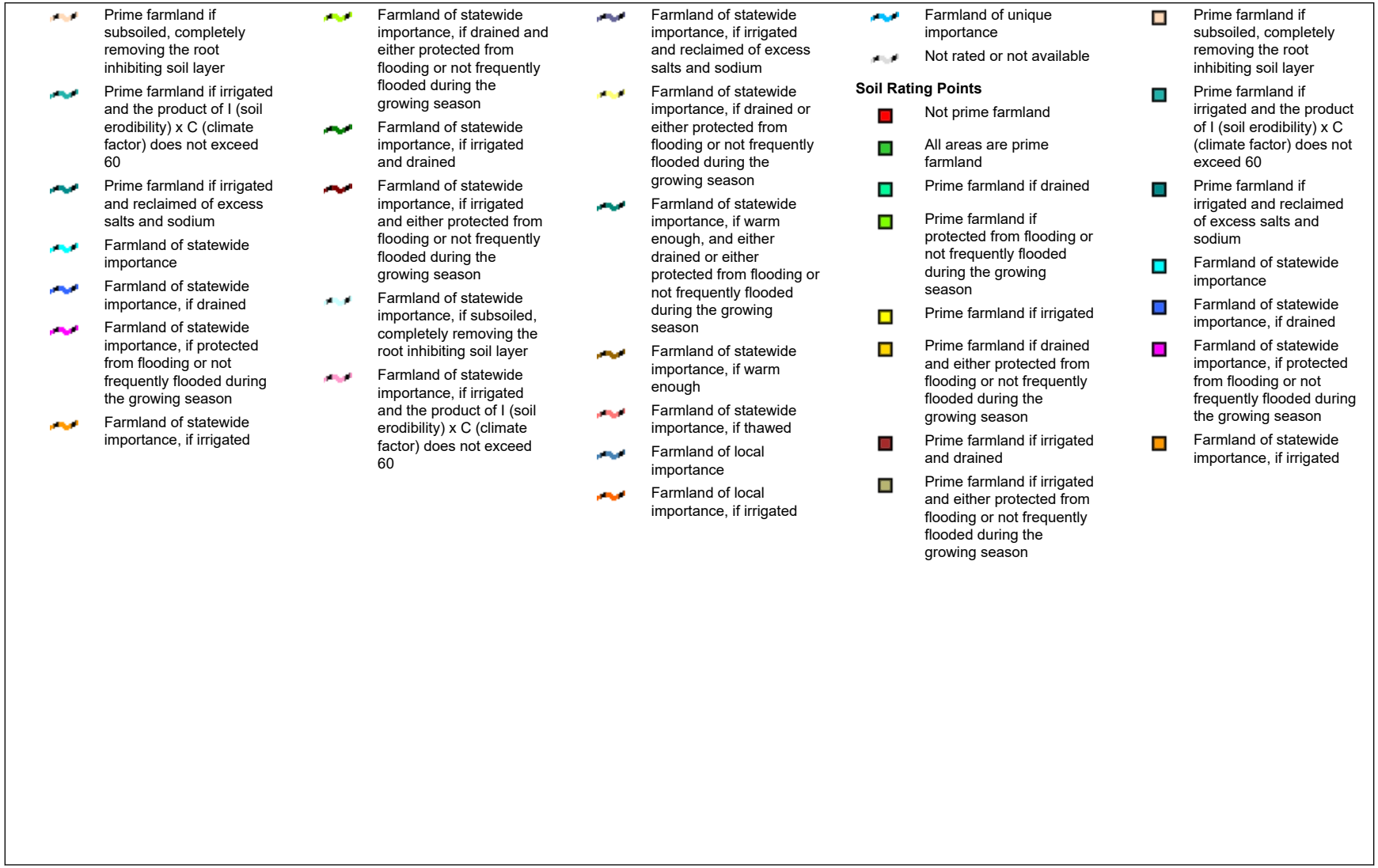
Soils

Soil Rating Polygons

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of statewide importance, if drained
- Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated
- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated
- Farmland of unique importance
- Not rated or not available

Soil Rating Lines

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season


Prime farmland if subsoiled, completely removing the root inhibiting soil layer
Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Prime farmland if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance
Farmland of statewide importance, if drained
Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated
Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated and drained
Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if warm enough
Farmland of statewide importance, if thawed
Farmland of local importance
Farmland of local importance, if irrigated
Farmland of unique importance
Not rated or not available
Soil Rating Points
Not prime farmland
All areas are prime farmland
Prime farmland if drained
Prime farmland if protected from flooding or not frequently flooded during the growing season
Prime farmland if irrigated
Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Prime farmland if irrigated and drained
Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
Prime farmland if subsoiled, completely removing the root inhibiting soil layer
Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Prime farmland if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance
Farmland of statewide importance, if drained
Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated

- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated
- Farmland of unique importance
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico
Survey Area Data: Version 16, Sep 10, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
MDA	Manglillo, Boqueron and Serrano soils, very frequently flooded	Not prime farmland	1.5	3.9%
Sa	Salt flats, ponded	Not prime farmland	0.3	0.7%
SsC	Sosa sandy loam, 5 to 12 percent slopes	Not prime farmland	0.8	2.1%
TeA	Teresa clay, 0 to 1 percent slopes	Not prime farmland	1.6	4.1%
Ua	Urban land	Not prime farmland	34.7	89.1%
Totals for Area of Interest			**38.9**	**100.0%**

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

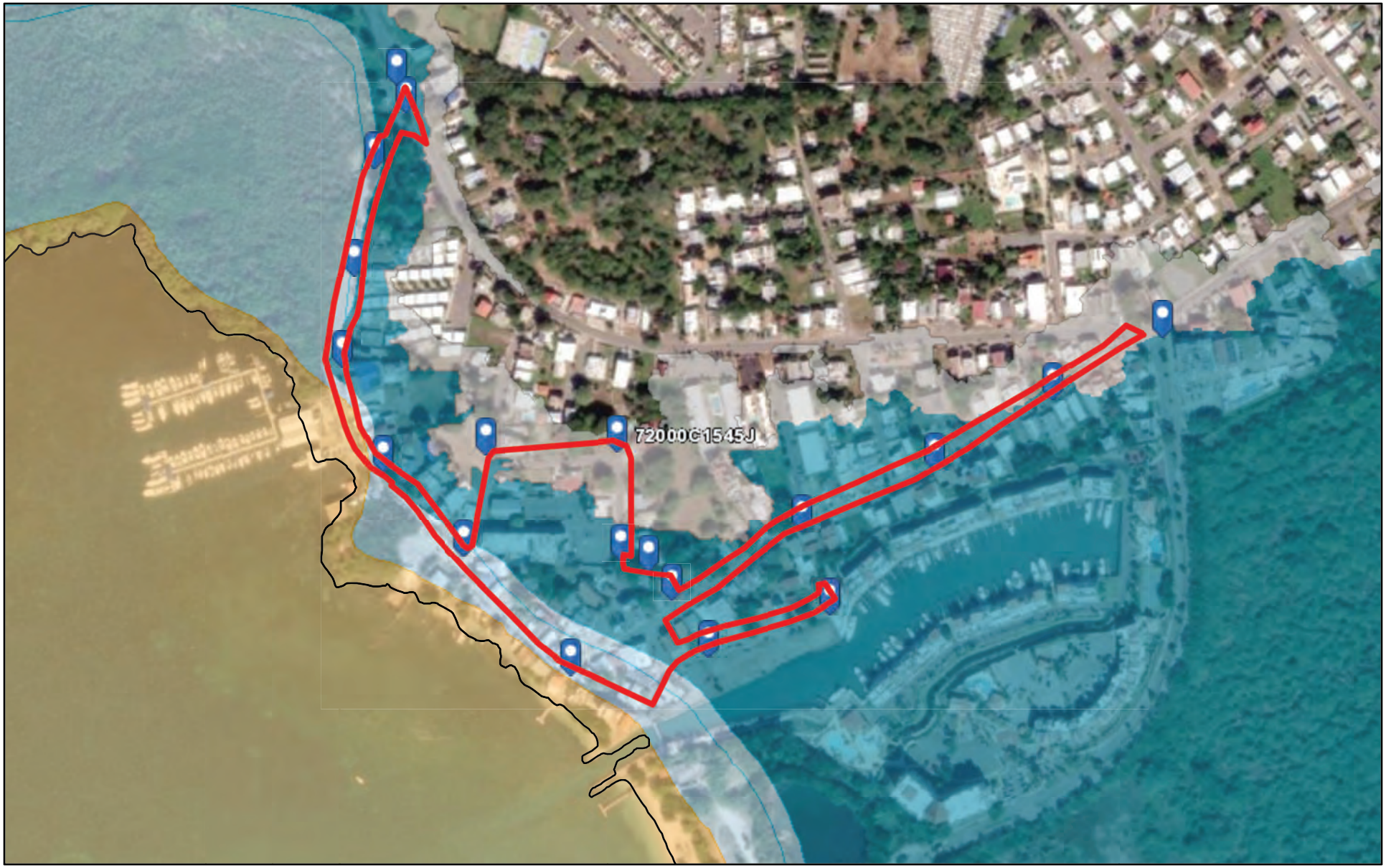
Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

Figure 9- Advisory Base Flood Elevation Map
PR-CRP-000847
Rehabilitación y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street
(State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

Mapa Niveles de Inundación Base Recomendados



10/26/2023, 9:09:29 PM

Municipios Limite
1 PCT Cauce Mayor
Panel

Zona Inundable
A
AE
AO
A Costera
VE

Project Site Points
Project Site Boundary

1:4,514

0 0.04 0.07 0.14 mi
0 0.05 0.1 0.2 km

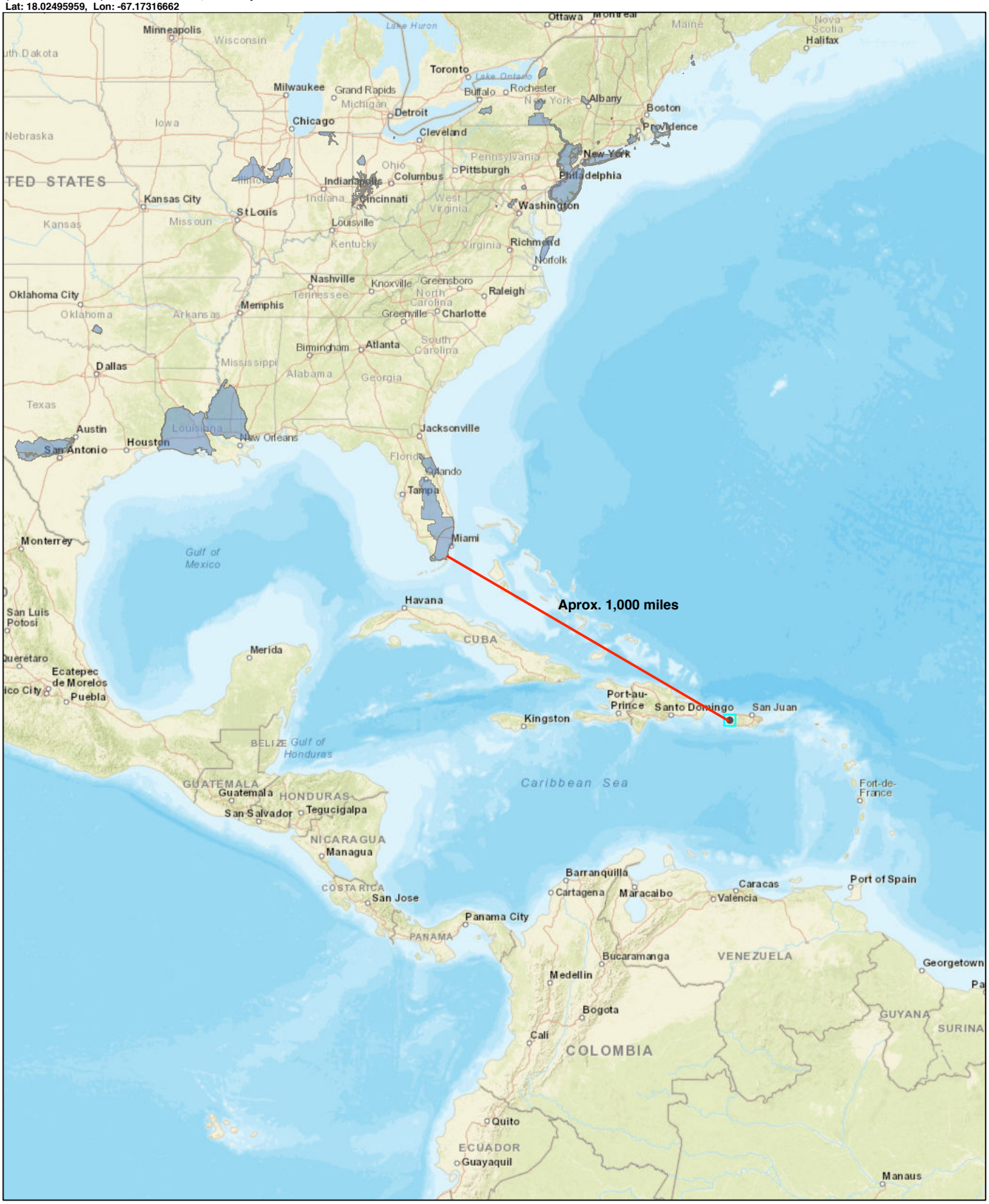
PRPB; FEMA, Maxar

Junta de Planificación, FEMA

Maxar | PRPB; FEMA | Junta de Planificación. Programa de Sistema de Información Geográfica |

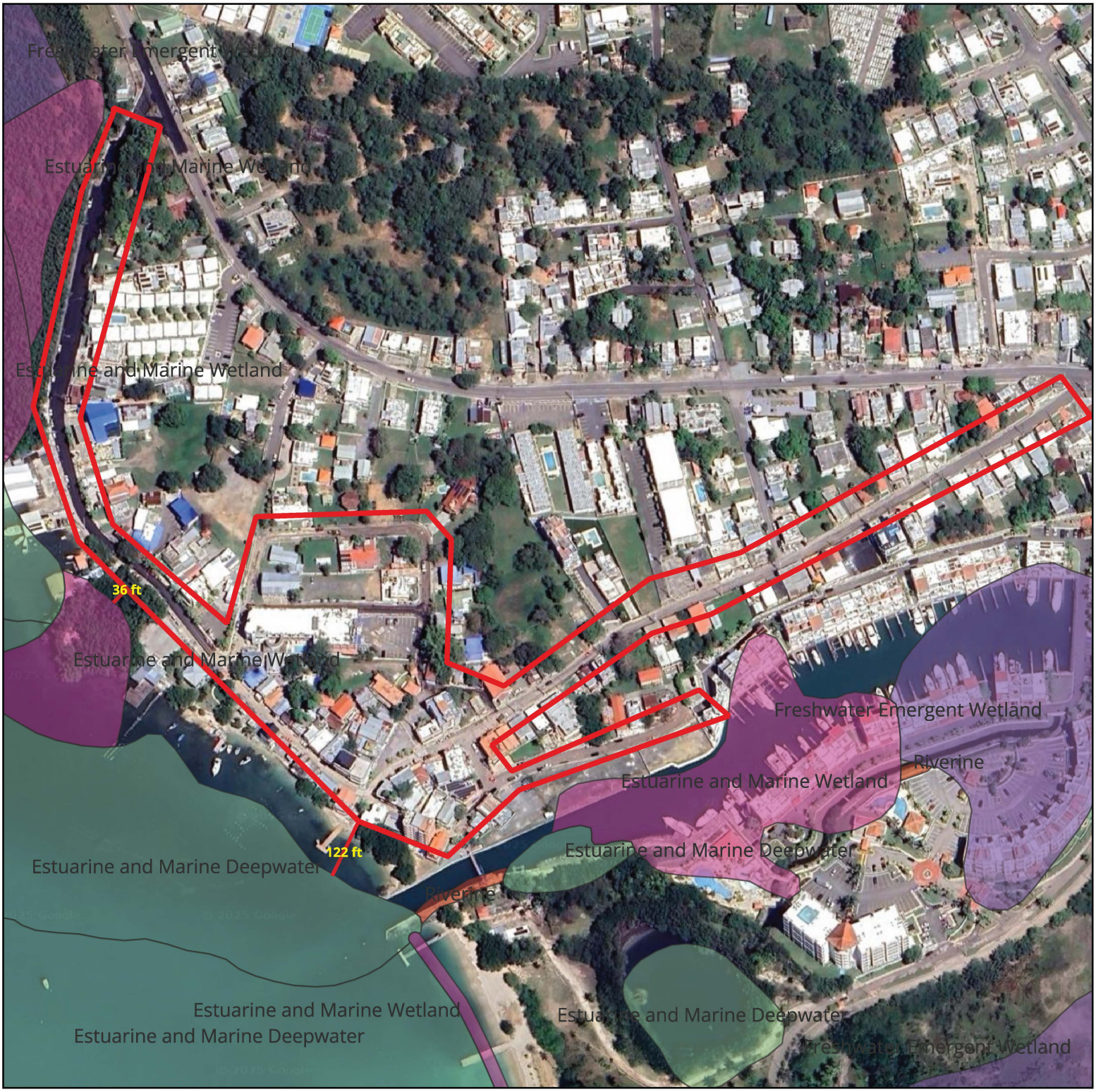
PR-CRP-000847
Rehabilitación y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street
(State Road- PR-101) Km. 18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662

Figure 10- Sole Source Aquifers Map



Source:
United States Environmental Protection Agency Webapp Viewer
https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b

Figure 11- Wetlands Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Street
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



Legend:

- Site
- Wetlands
  - Estuarine and Marine Deepwater
  - Estuarine and Marine Wetland
  - Freshwater Emergent Wetland
  - Freshwater Forested/Shrub Wetland
  - Freshwater Pond
  - Lake
  - Riverine

0 100 200 ft

Source: U.S.Fish and Wildlife Service,National Wetlands Inventory 2019 (https://www.fws.gov/wetlands/Data/DataDownload.html)
Image: Google Satellite
Spatial Reference: WGS 84

Figure 12- Wild and Scenic Rivers Map
PR-CRP-000847
Rehabilitacion y Embellecimiento del Poblado Boquerón
Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets
(State Road- PR-101) Km.18.6 to Km 19.7, Cabo Rojo PR 00622
Lat: 18.02495959, Lon: -67.17316662



Legend:

Site Wild Scenic Rivers

0 10 20 mi

Source: U.S.Forest Service 2019 (http://data.fs.usda.gov/geodata/edw/datasets.php)
Image: Google Satellite
Spatial Reference: WGS84

Attachment B

Coastal Zone Management

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN DE PUERTO RICO

Ref. Pl. Luis López
25 marzo 2024
MPS

MAR 2 1 2024

RECIBIDO
MAR 25 2024
OFICINA ALCALDE

HON. JORGE A. MORALES WISCOVITCH
HON. ALCALDE(SA)
PO BOX 1308
CABO ROJO PR 00623

Caso Número: CZ-2024-02307-114

Estimado (a) señor (a):

Cumpliendo con las disposiciones de la Ley Núm. 75 del 24 de junio de 1975, y Ley Núm. 38 de 30 de junio de 2017, según enmendadas y para su notificación oficial, incluimos copia certificada del acuerdo adoptado por la Junta de Planificación de Puerto Rico en relación con el asunto de referencia.

En el caso que aplique, si interesa solicitar reconsideración a dicho acuerdo deberá presentar una Solicitud a esos fines, por medio de correo electrónico a: comentariosjp@jp.pr.gov o mediante Correo postal a: JUNTA DE PLANIFICACIÓN, PO BOX 41119, SAN JUAN, PR 00940-1119.

Cordialmente,

Por: f/Edgardo Vázquez Rivera
Secretario
Junta Propia

Autorizado por la Oficina del Contralor Electoral OCE-SA-2024-03633

GOVERNMENT OF PUERTO RICO
PUERTO RICO PLANNING BOARD

March 6, 2024

Federal Consistency Certification with the
Puerto Rico Coastal Zone Management Program
CZ-2024-0207-114
Federal Assistance with CDBG funds, City Revitalization Program (CRP)
Rehabilitation and Beautification of the Town of Boquerón
PR-CRP-000847

RESOLUTION

TO NOTIFY PARTIES ABOUT THE ISSUANCE OF A FEDERAL CONSISTENCY CERTIFICATE ACCORDING TO THE COASTAL ZONE MANAGEMENT ACT FEDERAL CONSISTENCY REGULATIONS, 15 CFR Part 930

The PR Department of Housing submitted the application of reference to obtain federal assistance from the CDBG-DR funds through the City Revitalization Program (CRP). The proposed project consists of the rehabilitation and beautification of the Boquerón Town in Cabo Rojo, Puerto Rico. The proposed project includes the following activities:

- Rehabilitation of sidewalks and curbs.
- Replacement, rehabilitation and/or installation of new lighting fixtures and poles.
- Rehabilitation of the Town's Main Public Plaza (Margarita Pabón Plaza) and include some areas of mosaics and/or murals typical of Cabo Rojo within this area.
- Construction of a bench area and a sign in the center with Margarita Pabón's Plaza name and a brief history.
- Restoration and beautification of ornamentation and landscaping of spaces.
- Elimination of architectural barriers.
- Repaving of Hermógenes Pou and Gil Bouyet streets and both entrance streets to the town (Luis Muñoz Rivera and José de Diego streets).

As part of the completed evaluation, the Puerto Rico Planning Board made the following findings:

1- The proposed project is mostly located within Zone VE, Coastal A and AE flood risk zones according to FEMA Advisory Maps. Notwithstanding, the proposed city revitalization works as described consists in minor repairs and renewal of existing public infrastructure. The applicant must comply with applicable dispositions of the Special Flood Hazard Regulation (Planning Regulation No. 13).

2- According to the "Recommendations" document issued by OGPe on September 11, 2023, under the case number 2023-478641-SRA-065928, the Puerto Rican Culture Institute (PRCI) provided the following comments:

   - The Built Historical Heritage Program of PRCI expressed a favorable recommendation for the project since, according to provided information, the environmental impact of the scope of the proposed is minimal. The footprint of the current facility will not be altered. Nor will the existing infrastructure be

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

increased. The Margarita Pabon's Plaza is not currently a designated Historic Site and it is not part of a designated Historic Zone.

- The Archaeology and Ethnohistory Program of the PRCI determined that the development activities contemplated by this project could affect resources of an archaeological and historical nature, so the proposing party must file a Work Plan for an Archaeological Monitoring prepared by an archaeologist qualified for that level of research by the Council for the Protection of the Terrestrial Archaeological Heritage of Puerto Rico.

3- The OGPe Division of Environmental Compliance and Endorsements (DECA) of the PR Permit Management Office issued the required environmental compliance endorsement for this project through a "Categorical Exclusion" (2023-478641-DEC-121446) on August 30, 2023, according to the PR Environmental Policy Law (Law Number 416 of September 22, 2004).

Considering the above-mentioned findings, the Puerto Rico Planning Board (PRPB) in its meeting held on March 6, 2024, **determined that the federal assistance with CDBG funds to be awarded through the City Revitalization Program (CRP) for the project named "Rehabilitación y Embellecimiento del Poblado de Boquerón (PR-CRP-000847)" is consistent with the PR Coastal Zone Management Program Policies.** The recipient or subrecipient of this Federal Assistance must comply with the regulatory aspects and requirements of the concerned agencies.

This certification does not exempt the project from complying with other required federal or state permits and endorsements.

The following parties shall be notified: **Angel G. López Guzmán**, Permits and Environmental Compliance, PR Housing Department; **William Meléndez**, Ingenium Professional Group PSC, **Jorge A. Morales Wiscovitch**, Major, Municipality of Cabo Rojo; **Magaly Massanet**, PRCZMP Office, DNER.

Julio Lassús Ruiz, LLM, MP, PPL
President

Certify: That this Resolution is copy of the agreement adopted by Puerto Rico Planning Board (PRPB) in its meeting held on **March 6, 2024**. I issue and notify a copy of this resolution to the parties under my signature and the official stamp of the Puerto Rico Planning Board.

In San Juan, Puerto Rico, today MAR 2 1 2024

Edgardo Vázquez Rivera
Acting Secretary

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

JP-833
Rev. Jan. 01

Commonwealth of Puerto Rico
Office of the Governor
Puerto Rico Planning Board
Physical Planning Area
Land Use Planning Bureau

Application for Certification of Consistency with the Puerto Rico Coastal Management Program

General Instructions:

A. Attach a 1:20,000 scale, U.S. Geological Survey topographic quadrangular base map of the site.

B. Attach a reasonably scaled plan or schematic design of the proposed object, indicating the following:

   1. Peripheral areas

   2. Bodies of water, tidal limit, and natural systems.

C. You may attach any further information you consider necessary for proper evaluation of the proposal.

D. If any information requested in the questionnaire does not apply in your case, indicate by writing "N/A"(not applicable).

E. Submit a minimum of seven (7) copies of this application.

DO NOT WRITE IN THIS BOX

Type of application: _____ Application Number: _____

Date received: _____ Date of Certification: _____

Evaluation result: ☐ Objection ☐ Acceptance ☐ Negotiation

Technician: _____ Supervisor: _____

Comments:

1. Name of Federal Agency: Puerto Rico Department of Housing (Responsible Entity)

2. Federal Program Catalog Number: 14.228 Community Development Block Grant - Disaster Recovery (CDBG-DR) / City Revitalization Program

3. Type of Action:

   ☐ Federal Activity ☐ License or permit ☒ Federal Assistance

4. Name of Applicant: Puerto Rico Department of Housing (Responsible Entity)

5. Postal Address: PO Box 21365, San Juan, PR 00928-1365

   Telephone: (787) 274-2527 Fax: (787) 758-9263

6. Project name: Rehabilitación y Embellecimiento del Poblado Boquerón (PR-CRP-000847)

7. Physical Description of Project Location (area, facilities such as vehicular access, drainage, storm, and sanitary sewer placement, etc.):

The project is located at the Poblado de Boquerón area from PR-101 Km 18.6 to km. 19.7. It consists of the rehabilitation to the municipal streets, sidewalks, curbs and public areas within the zone, so as to have modern facilities for public recreation and to promote tourist activity around the Poblado.

Lambert Coordinates: X= 121659.0226 Y= 221367.2429 s

8. Type of construction or other work proposed:

☐ drainage	☐ channeling	☐ landfill	☐ sand extraction
☐ pier	☐ bridge	☐ residential	☐ tourist

☒ others (specify and explain): Revitalization to the municipal streets, sidewalks, curbs, and public areas within the zone.

Description of proposed work: The proposed activities are rehabilitation of sidewalks and curbs, replacement, rehabilitation and/or installation of new lighting fixtures and poles, rehabilitation of the Town's Main Public Plaza (Margarita Pabón Plaza) and include some areas of mosaics and/or murals typical of Cabo Rojo within this area, construction of a bench area and a sign in the center with Margarita Pabón's name and a brief history, installation of Cabo Rojo's emblematic sign at Margarita Pabón Plaza, restoration and beautification of ornamentation and landscaping of spaces, elimination of architectural barriers, repaving of Hermógenes Pou and Gil Bouyet streets and both entrance streets to the town (Luis Muñoz Rivera and José de Diego streets).

9. Natural, artificial, historic, or cultural systems likely to be affected by the project.

System	Within Project	Outside Project	Distance (meters)	Local name of affected system
beach, dunes		x	77.21	Boquerón Beach
marshes		x		
coral, reefs		x		
river, estuary		x		
bird sanctuary		x		
pond, lake, lagoon		x		
agricultural unit		x		
forest, wood		x		
cliff, breakwater		x		
cultural or tourist area	x			Poblado Boquerón
other (Floodplain AE & A zones / Estuarine and marine wetland)	x			

Describe the likely impact of the project on the identified system (s).

Positive ☒ Negative ☐

Explain: The proposed activities are located within the footprint, are intended to rehabilitate the existing footprint, and do not exceed 20% of the improvements. No wetland impacts will take place with these improvements. The project area is already highly developed, and project implementation would not encourage new development within the floodplain or wetlands in the proposed project area. No loss of life could be generated as part of the proposed actions. Proposed works would generate a positive impact to the actual floodplain in benefit of the people's life, but also would help to protect the financial investment of the contiguous business that serves the community.

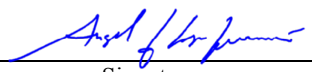
10. Indicate permits, approvals, and endorsements of the proposal by Federal and Puerto Rican government agencies. Evidence of such support should be attached to the proposal.

		Yes	No	Pending	Application Number
a.	Planning Board	☐	☐	☐	
b.	Regulation and Permits Administration	☒	☐	☐	2023-478641-SRM-074170
c.	Environmental Quality Board	☒	☐	☐	
d.	Department of Natural Resources	☒	☐	☐	
e.	State Historic Preservation Office	☐	☐	☐	
f.	U.S. Army Corps of Engineers	☐	☐	☐	
g.	U.S. Coast Guard	☐	☐	☐	
h.	Other (s) (specify)	☐	☐	☐	

CERTIFICATION

I CERTIFY THAT Rehabilitación y Embellecimiento del Poblado Boquerón (PR-CRP-000847) is consistent with the Puerto Rico Coastal Zone Management Program, and that to the best of my knowledge the above information is true.

Angel G. López-Guzmán
Name (legible)


Signature

Deputy Director - Permits and Environmental Compliance Division / Disaster Recovery Office
Position

Dec. 29, 2023
Date

Ingenium Professional Group PSC
D. Física: Calle Progreso # 50 E – Suite 202, Fajardo PR 00738
D. Postal: PO Box 970, Naguabo PR 00718
Tels. 787.918.5890 / 5891 | Email: info@ingenium.group

Memorial

November 16, 2023

From : Ing. William Meléndez, PhD, Esq, PE, MEM, PMP, CCM
Designer

Re : Coastal Zone Memorial

Project : PR-CRP-000847
Rehabilitation and Embellishment of the Boquerón Town

Address : **Plaza Margarita Pabón, PR-101 KM 18.6 to KM 19.7 and Streets Hermogenes Pou, Gil Bouyet and Barbosa, Bo. Boquerón Cabo Rojo PR 00623**

Cadastre : **380-013-010-01**

The project is intended to make improvements to the facilities of the Municipality of Cabo Rojo, which were affected and are part of the Municipality's recovery efforts.

The impact of the scope of these projects, in environmental terms, is minimal. The proposed Project aims to carry out the necessary tasks to repair the damage that arose as a consequence of the passage of time and the different natural events. The footprint of the existing facility will not be altered. Nor will the existing infrastructure be increased.

As part of these improvements and the scope of the project, the following actions are intended to be carried out:

The main purpose of this project is the revitalization of the Poblado de Boquerón area located from PR-101 km. 18.6 to km. 19.7 and the municipal streets, sidewalks, curbs and public areas within the zone, so as to have modern facilities for public recreation and to promote tourist activity around the Poblado.

The Municipality of Cabo Rojo proposes the action that provides for the development of a project under the concept of public facility, with the purpose of rehabilitating the area of Pueblo Boquerón located at km PR-101. 18.6 to km. 19.7, its works are:

• Rehabilitation of sidewalks and curbs.

• Replacement, rehabilitation and/or installation of new lighting fixtures and poles.

• Rehabilitation of the Town's Main Public Plaza (Margarita Pabón Plaza) and include some areas of mosaics and/or murals typical of Cabo Rojo within this area.

• Construction of a bench area and a sign in the center with Margarita Pabón's name and a brief history.

• Installation of Cabo Rojo's emblematic sign at Margarita Pabón Plaza.

• Restoration and beautification of ornamentation and landscaping of spaces.

• Elimination of architectural barriers.

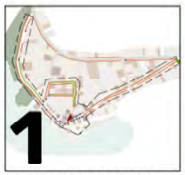
• Repaving of Hermógenes Pou and Gil Bouyet streets and both entrance streets to the town (Luis Muñoz Rivera and José de Diego streets).

The proposed activities are located within the footprint, are intended to rehabilitate the existing footprint and do not exceed 20% of the improvements.

According to the above, we understand that this project is not applicable for coastal consultation, because the development of the project is existing, the footprint will not be substantially increased and rainwater runoff will not be diverted.

Figure 1- Aerial Photography
Rehabilitation of Poblado Boqueron, Cabo Rojo, Puerto Rico
Reference:https://www.google.com/maps/place/18%C2%B001'29.9%22N+67%C2%B010'23.4%22W/@18.0253657,-67.1737601,492m/data=!3m1!1e3!4m4!3m3!8m2!3d18.0249596!4d-67.1731666?entry=ttu





PROPOSED SIDEWALK, PLANTING & RAMPS FOR THE DISABLED [PROJECT AREA]



PROPOSED DESIGN OF ENTRANCES TO THE TOWN OF BOQUERON PR 307 WITH JOSE DE DIEGO STREET AND LUIS MUÑOZ RIVERA STREET_BLOW UP



PROPOSED DESIGN OF STAMPING ON FLOOR OF PUBLIC SQUARE_BLOW UP



PROPOSED STAMPING DESIGN ON JOSE DE DIEGO AND LUIS MUÑOZ RIVERA STREETS_BLOW UP



PROPOSED DESIGN OF A ROOFED PLATFORM IN A PUBLIC SQUARE_BLOW UP



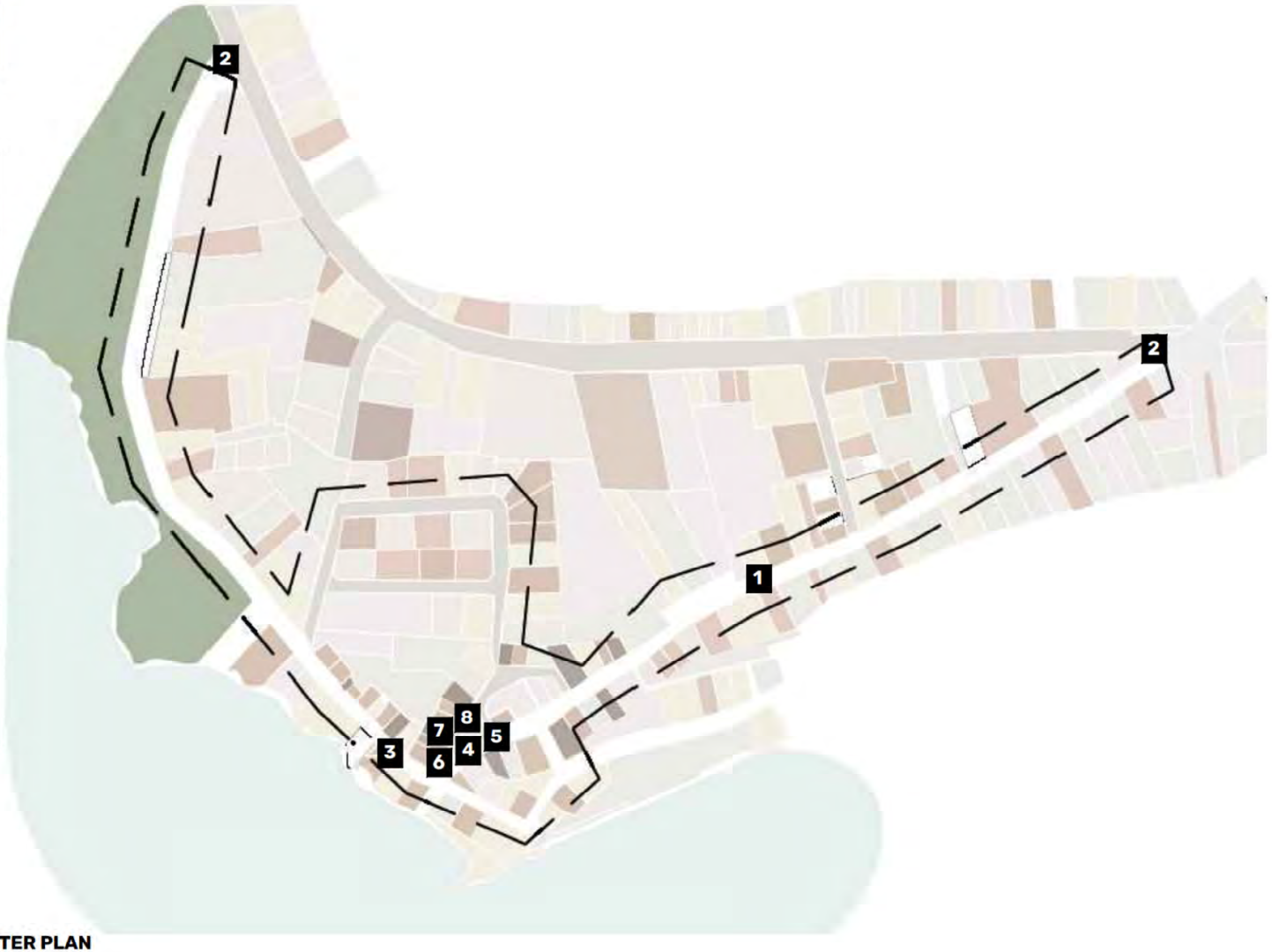
PROPOSED DESIGN OF A TOURIST INFORMATION KIOSK_BLOW UP



PROPOSED DESIGN OF EMBLEMATIC SIGN IN PUBLIC SQUARE_BLOW UP



PROPOSED DETAILS OF URBAN EQUIPMENT



PROPOSED IMPROVEMENTS MASTER PLAN

SCALE NTS

ADDRESS

RESTAURACION DE POBLADO DE BOQUERON

CABO ROJO , PUERTO RICO

OWNER

MUNICIPIO DE CABO ROJO

REGISTER NO.

###-####-###-##

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK.

ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED.

IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO REPRODUCES THEM SHALL BE LIABLE FOR ALL DAMAGES TO ALL C O N C E R N E D .

CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE E N G I N E E R .

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL DESIGNER OF THESE PLANS AND SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT THESE PLANS AND SPECIFICATIONS SHALL COMPLY WITH PREVAILING SET OF RULES AND CODES OF AGENCIES, BOARDS REGULATORS AND PUBLIC CORPORATIONS WITH JURISDICTION. I ACKNOWLEDGE THAT IF ANY FALSE STATEMENTS OR FORGERY OF EVENTS HAVE OCCURRED WITHOUT KNOWLEDGE OR NEGLIGENCE WHETHER BY ME, MY AGENTS OR EMPLOYEES, OR OTHER PEOPLE WITH MY AUTHORITY, I MAY BE SUBJECT TO THE CORRESPONDING DISCIPLINARY ACTION AND/OR OTHER COMPETENT AUTHORITIES, INCLUDING, BUT NOT LIMITED TO THE TERMINATION OF PARTICIPATION IN THE PROFESSIONAL CERTIFICATION PROCEDURES ON THE DISPR.

INGENIUM PROFESSIONAL GROUP PSC

PO Box 970, Naguabo, P.R. 00718
Tel. (787) 918-5890 / 5891
Email: info@ingenieromelendez.com

SIGNATURE

WILLIAM MELENDEZ RIVAS
INGENIERO LICENCIADO
LIC. 16,383
PUERTO RICO

FILE

Dwg Name: 20220102_POBLADO BOQUERON
Drawn by: INGENIUM GROUP PSC
Revised by: Eng. W. Meléndez Rivas, #16383
Plot Scale:
Progress Print: Jun 20, 2022

TITLE

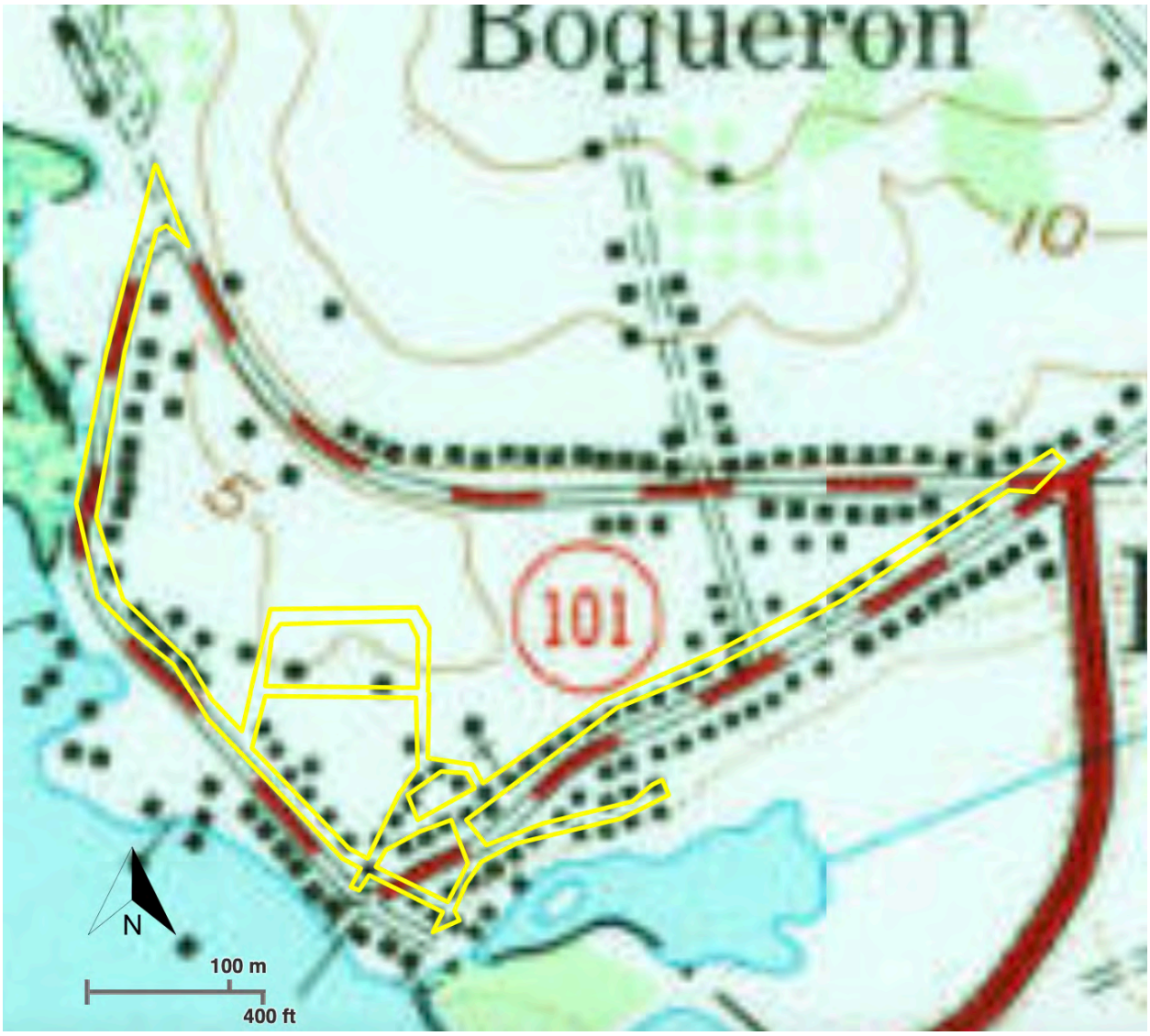
PROPOSED IMPROVEMENTS MASTER PLAN

DRAWING NO.

A002

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV)	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Cabo Rojo	
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón	**Project ID:** PR-CRP-000847

Project (Parcel) Location - USGS Topographic Map

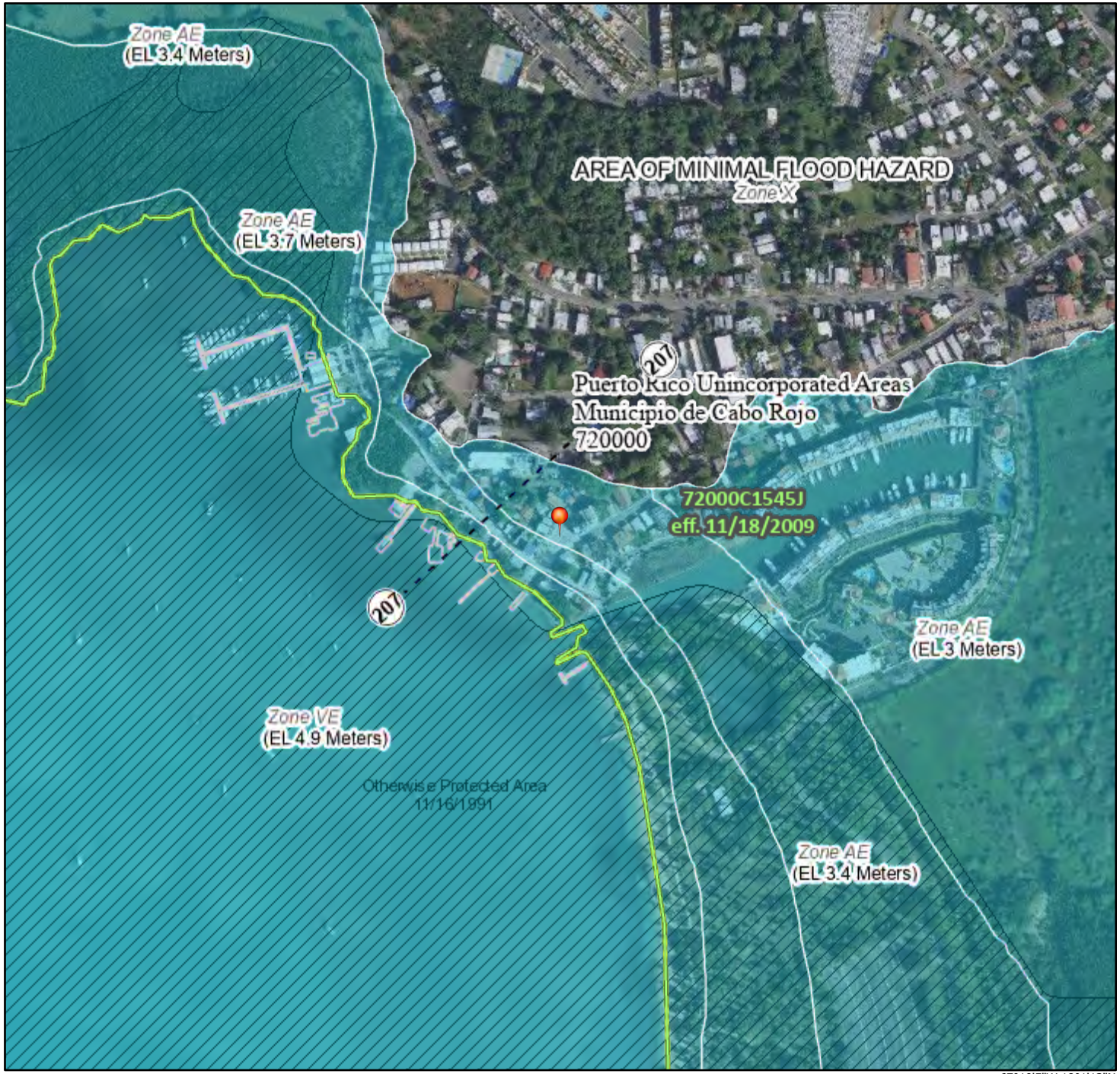


Source: Interactive Map of United States Environmental Protection Agency, NEPAssist (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

National Flood Hazard Layer FIRMette

FEMA

67°10'42"W 18°1'47"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

67°10'5"W 18°1'13"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/22/2023 at 9:16 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Mapa Niveles de Inundación Base Recomendados



10/26/2023, 9:09:29 PM

Municipios Limite
1 PCT Cauce Mayor
Panel

Zona Inundable
A
AE
AO
A Costera
VE

1:4,514

0 0.04 0.07 0.14 mi
0 0.05 0.1 0.2 km

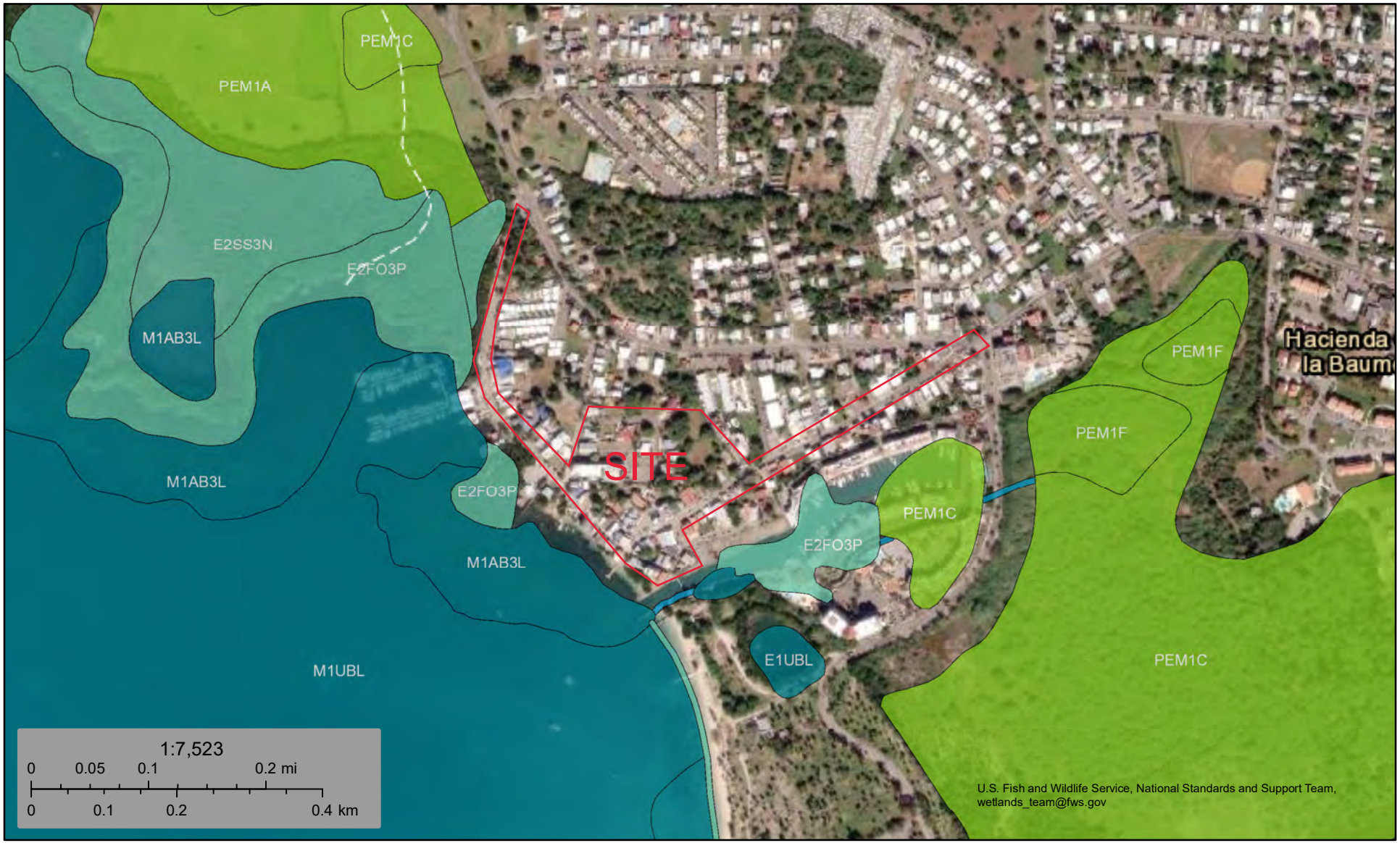
PRPB; FEMA, Maxar

Junta de Planificación, FEMA

Maxar | PRPB; FEMA | Junta de Planificación. Programa de Sistema de Información Geográfica |

U.S. Fish and Wildlife Service
National Wetlands Inventory

PR-CRP-000847 Rehabilitación y Embellecimiento del Poblado Boquerón



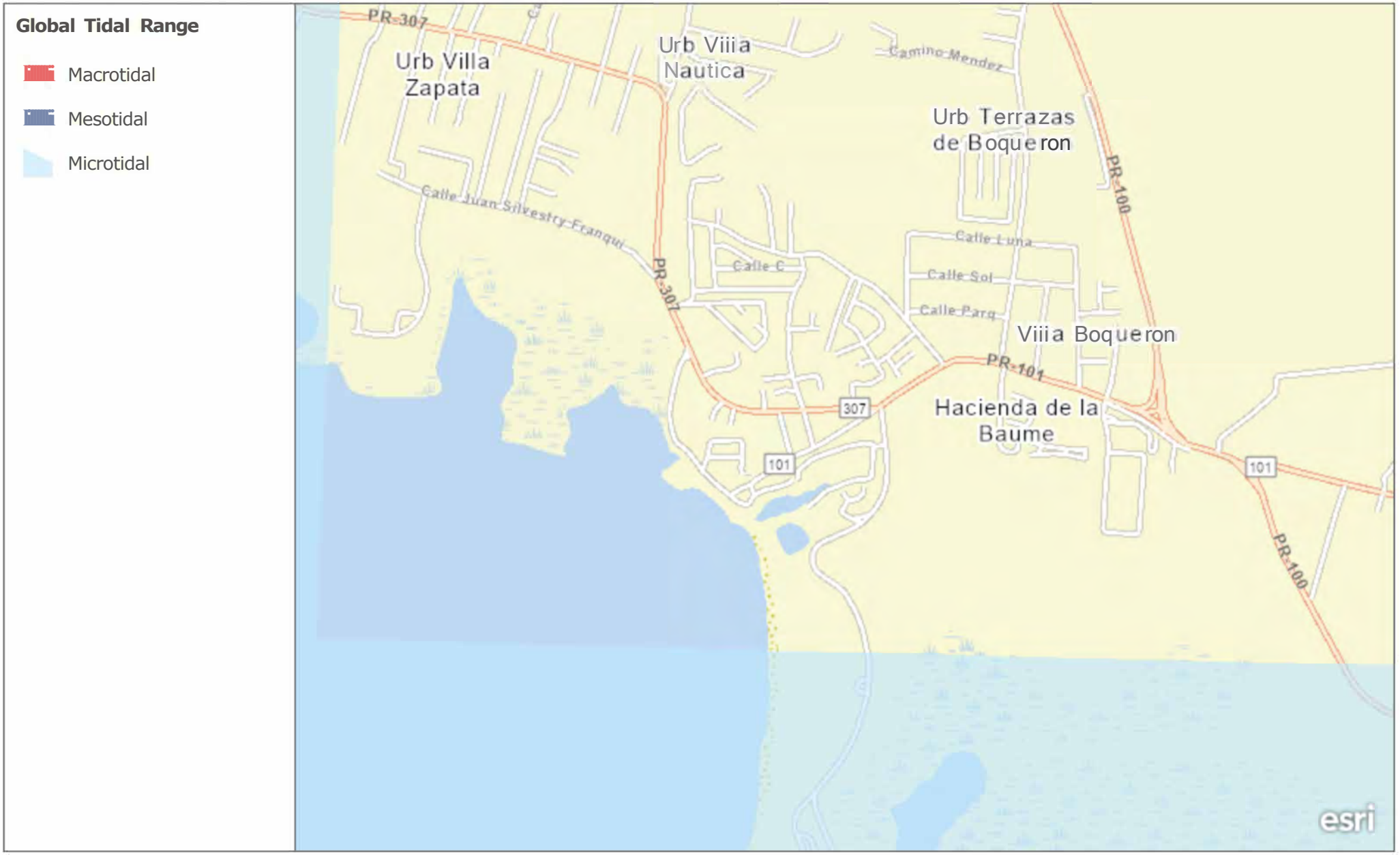
December 15, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Global Tidal Range



Global Tidal Range

0.4km

Esri Community Maps Contributors, Kadaster Netherlands, Esri, HERE, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau

https://www.arcgis.com/apps/mapviewer/index.html?webmap=3d626ffd8ca1483ca37d32fd430b277d

Recomendaciones

PR-CRP-000847 Rehabilitación y Embellecimiento del Poblado Boquerón

Datos de Localización

De acuerdo a la información suministrada se propone una actividad: Público con Contratación Privada en:

Dirección Física

PLAZA MARGARITA PABÓN, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERÓN
PR 00623
Cabo Rojo Puerto Rico, 00623

Número(s) de Catastro

380-013-010-01

Dueño

Municipio Autónomo de Cabo Rojo

Cabida

Cabida según escritura: 258.2 metros cuadrados

Calificación

Distrito(s) de Calificación: DT-P

Distrito en el Mapa de Inundabilidad: AE

Tipo de Suelo: SNS

Arqueología y Conservación Histórica

COMENTARIO DACH-ICP A CASO NÚM: 2023-478641-SRA-065928 PROYECTO: PR-CRP-000847 Rehabilitación y Embellecimiento del Poblado Boquerón BASE LEGAL: Se emite el siguiente comentario en base a la Ley 374 del 14 de marzo de 1949, según enmendada, Ley de Zonas Antiguas o Históricas y Zonas de Interés Turístico, Ley 3 del 2 de marzo de 1951, Ley de Edificios y otras Estructuras Históricas y la Ley 89 del 21 de junio de 1955, según enmendada, conocida como Ley Orgánica del Instituto de Cultura Puertorriqueña y la Ley 161 del 1 de diciembre de 2009, conocida como Ley para la Reforma del Proceso de Permisos de Puerto Rico. Estas leyes le confieren jurisdicción sobre los siguientes asuntos: 1. Edificios, lugares y zonas incluidas en el Registro de Sitios y Zonas Históricas de Puerto Rico de la Junta de Planificación (REGLAMENTO CONJUNTO PARA LA EVALUACIÓN Y EXPEDICIÓN DE PERMISOS RELACIONADOS AL DESARROLLO, USO DE TERRENOS Y OPERACIÓN DE NEGOCIOS); 2. Edificios, lugares y zonas declaradas históricas a través de legislación (o de resolución de la JUNTA DE DIRECTORES DEL ICP; 3. Plazas de recreo y edificios circundantes (REGLAMENTO CONJUNTO PARA LA EVALUACIÓN Y EXPEDICIÓN DE PERMISOS RELACIONADOS AL DESARROLLO, USO DE TERRENOS Y OPERACIÓN DE NEGOCIOS); 4. Propiedades zonificadas “P” construidas previo a 1960 (RESOLUCIÓN JPE-25 Y RESOLUCIÓN JPE-047); 5. Propiedades zonificadas “CRH”, “SH” o “R-ZH”- Según REGLAMENTO CONJUNTO PARA LA EVALUACIÓN Y EXPEDICIÓN DE PERMISOS RELACIONADOS AL DESARROLLO, USO DE TERRENOS Y OPERACIÓN DE NEGOCIOS; 6. Propiedades elegibles a sitios históricos; propiedades de valor histórico que satisfacen los criterios de elegibilidad como sitios históricos para ser designada como tal individualmente (LEY NÚM. 89 DE 1955; REGLAMENTO CONJUNTO PARA LA EVALUACIÓN Y EXPEDICIÓN DE PERMISOS RELACIONADOS AL DESARROLLO, USO DE TERRENOS Y OPERACIÓN DE NEGOCIOS); I. PROGRAMA DE PATRIMONIO HISTORICO EDIFICADO (PPHE): ICP-PPHE: RECOMENDACION FAVORABLE. De acuerdo a nuestros expedientes y la información provista: 1. Conforme al memorial presentado: “El impacto del alcance de estos proyectos, en términos ambientales, es uno mínimo. El Proyecto propuesto tiene el objetivo de llevar a cabo las tareas necesarias para reparar los daños que

Recomendaciones

PR-CRP-000847 Rehabilitación y Embellecimiento del Poblado Boquerón

surgieron como consecuencia del paso del tiempo y los diferentes eventos naturales. La huella de la facilidad actual no será alterada. Tampoco se incrementará la infraestructura existente. " 2. La propiedad NO es al momento Sitio Histórico designado, ni es parte de una Zona Histórica según estos conceptos están definidos por el tomo XII (12), parte III, definiciones S-67, Z-12[=13] y Z-13[=14], y elaborados en el tomo X (10), del Reglamento Conjunto. 3. No es un Monumento Histórico declarado según este concepto está definido por el Tomo XII Glosario de la Junta de Planificación, parte III, definición M-55 del Reglamento Conjunto 2020. 4. Se localiza en plaza de recreo y bloques circundantes. En este marco de referencia, el PPHE emite su RECOMENDACIÓN FAVORABLE al proyecto. Este comentario, no incluye los elementos a ser evaluados por el Programa de Arqueología y Etnohistoria del ICP. La Ley 161-2009, según enmendada, Artículo19.6, enmienda las Secciones 2 y 3 de la Ley Núm. 112 de 20 de julio de 1988, según enmendada, conocida como "Ley de Protección del Patrimonio Arqueológico Terrestre de Puerto Rico", a los fines de transferir al Instituto de Cultura Puertorriqueña toda facultad, deber u obligación referente a la evaluación para la otorgación o denegación de determinaciones finales o permisos, esto en coordinación con la Oficina de Gerencia de Permisos. Este documento tiene vigencia de un año a partir de su expedición. II. PROGRAMA DE ARQUEOLOGIA Y ETNOHISTORIA (PAE). Base Legal: La Ley 161-2009, según enmendada, Artículo 19.6, enmienda las Secciones 2 y 3 de la Ley Núm. 112 de 20 de julio de 1988, según enmendada, conocida como "Ley de Protección del Patrimonio Arqueológico Terrestre de Puerto Rico", a los fines de transferir al Instituto de Cultura Puertorriqueña toda facultad, deber u obligación referente a la evaluación para la otorgación o denegación de determinaciones finales o permisos, esto en coordinación con la Oficina de Gerencia de Permisos. El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operaciones de Negocios (RC-2020); registrado en el Departamento de Estado de Puerto Rico bajo el Número 9233 con vigencia de 2 de enero de 2021, establece, entre otros, lo siguiente: a. Regla 2.1.8, Sección 2.1.8.7, Inciso "b": Todo proyecto público o privado que conlleve movimiento de terreno, excavación, extracción de corteza terrestre o construcción, reconstrucciones o canalizaciones deberá solicitar a la División o Unidad de Evaluación Ambiental (DECA) la recomendación del ICP sobre Arqueología y Conservación Histórica, ya sea a través de la OGPe, los Municipios Autónomos con Jerarquía 1 a la III o el Profesional Autorizado. b. CAPÍTULO 10.2, Sección 10.2.1.2 se requerirá la recomendación del ICP en todos los Permisos relacionados con construcción, reconstrucción, trabajos de excavación, extracción o movimiento de tierras en lugar alguno del que haya documentación previa o indicios fidedignos de presencia de material arqueológico. Incluye los centros fundacionales de los municipios, entiéndase, plaza de recreo y bloques circundantes, conforme a la Ley 89-1955, supra, Sección 4. —Propósitos, Funciones y Poderes del Instituto. (18 L.P.R.A. sec. 1198) y la Ley Número 112 del 20 de julio de 1988, conocida como la "Ley de Protección del Patrimonio Arqueológico Terrestre", según enmendada. IV. EVALUACIÓN PROGRAMA DE ARQUEOLOGIA Y ETNOHISTORIA: ICP PAE --- Solicitud de Plan de Trabajo Monitoría--- El Programa de Arqueología y Etnohistoria (PAE) del Instituto de Cultura Puertorriqueña (ICP) ha evaluado los documentos relacionados al proyecto de referencia, recibidos a través de la Oficina de Gerencia de Permisos (OGPe). Esta revisión y evaluación son efectuadas conforme a las disposiciones de la Sección 10 de la Ley 112 del 20 de julio de 1988 conocida como la Ley de Arqueología Terrestre de Puerto Rico y a los reglamentos promulgados en virtud de esta. Como resultado de la evaluación, se determinó que las actividades de desarrollo contempladas por este proyecto pudieran afectar recursos de naturaleza arqueológica históricas

Recomendaciones

PR-CRP-000847 Rehabilitación y Embellecimiento del Poblado Boquerón

entre otras. Por lo antes expuesto, el proponente deberá someter, para nuestra evaluación y determinación un Plan de Trabajo para una Monitoría Arqueológica. Este deberá ser preparado por un arqueólogo cualificado para dicho nivel de investigación por el Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico. Se le apercibe que el incumplimiento de estos requerimientos podrá ser objeto de sanciones administrativas según lo establecido en las citadas leyes.

Condiciones Especiales

NINGUNA

Condiciones Generales

Esta recomendación es solamente aplicable a la situación de hechos y los datos según presentados y evaluados en el caso. La OGPe se reserva el derecho de reevaluar, variar o modificar el mismo en cualquier momento anterior a la emisión del permiso o la acción administrativa correspondiente por parte de la agencia solicitante o proponente cuando surja nueva información oficial específica estableciendo que el derecho aplicable o las condiciones ambientales en el predio han cambiado sustancialmente, o cuando la recomendación original se emitió bajo premisas falsas o fraudulentas.

Las vigencias de las diferentes agencias del proceso de recomendación serán las establecidas en los comunicados que estas emiten conforme a sus reglamentos.

Firma / Sellos

Fecha de Expedición:

11/SEP/2023

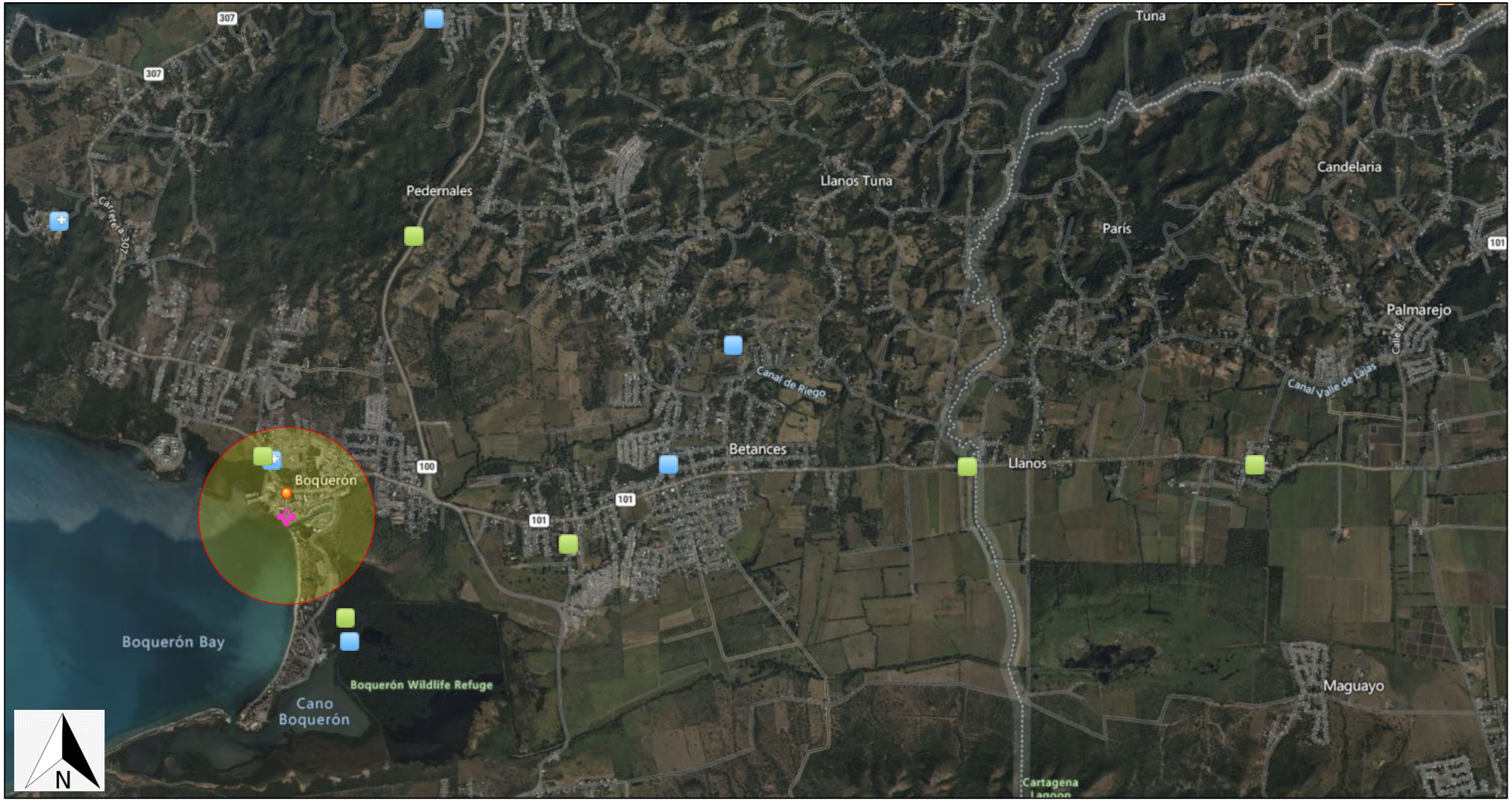
Lcdo. Félix E. Rivera Torres
Secretario Auxiliar
Departamento de Desarrollo Económico y Comercio de Puerto Rico
Oficina de Gerencia de Permisos

Lcdo. Félix E. Rivera Torres

Secretario Auxiliar de la OGPe

Attachment C
Contamination and Toxic Substances

Toxic



August 3, 2023

1:36,112

- Hazardous Waste (RCRAInfo)
- Air Pollution (ICIS-AIR)
- Water Dischargers (NPDES)
- Water Dischargers (NPDES)
- Brownfields (ACRES)
- Project Buffer
- Poblado Boqueron
- Search Result (point)

0 0.42 0.85 1.7 mi

0 0.5 1 2 km

© 2023 Microsoft Corporation © 2023 Maxar ©CNES (2023) Distribution Airbus DS © 2023 TomTom

Informe detallado de la instalación

Informe detallado de la instalación

Resumen de instalaciones

TINTORERÍA HOMBRE MODERNO

CARR. PR 307, KM. 0.7, CABO ROJO, PR 00623

(Servicio de Registro de Instalaciones)Id. de FRS (Servicio de Registro de Instalaciones):
110014361519
Región de la EPA: 02
Latitud: 18.029931
Longitud: -67.175168
Fuente de datos de ubicación: FRS
Industrias: --
país indio: norte

Resumen de aplicación y cumplimiento

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	Ninguna infracción identificada
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
Statute	**RCRA**
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	Ninguna infracción identificada
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Información reglamentaria

Ley de Aire Limpio (CAA): Menor permanentemente cerrado (PR0000007202300016)
Ley de Agua Limpia (CWA): Sin información

Otros informes regulatorios

Inventario de Emisiones al Aire (EIS): Sin información
Emisiones de gases de efecto invernadero (eGGRT): Sin información

Ley de Conservación y Recuperación de Recursos (RCRA): Inactivo Otro, (PRN008009185)

Ley de Agua Potable Segura (SDWA): Sin información

Ir a detalles de aplicación/cumplimiento

Problemas de datos conocidos

Emisiones Tóxicas (TRI): Sin información

Interfaz de informes de datos de cumplimiento y emisiones (CEDRI): Sin información

Características de la instalación/sistema

Características de la instalación/sistema

Sistema	Estatuto	identificador	Universo	Estado	Áreas	Fecha de vencimiento del permiso	país indio	Latitud	Longitud
FRS		110014361519					norte	18.029931	-67.175168
ICIS-Aire	CAA	PR0000007202300016	Emisiones menores	Cerrado permanentemente			norte	18.029931	-67.175168
RCRAInfo	RCRA	PRN008009185	Otro	Inactivo ( )			norte	18.029931	-67.175168

Dirección de la instalación

Sistema	Estatuto	identificador	Nombre de la instalación	Dirección de la instalación	Condado de la instalación
FRS		110014361519	TINTORERÍA HOMBRE MODERNO	CARR. PR 307, KM. 0.7, CABO ROJO, PR 00623	Municipio de Cabo Rojo
ICIS-Aire	CAA	PR0000007202300016	TINTORERÍA HOMBRE MODERNO	CARR. PR 307, KM. 0.7, CABO ROJO, PR 00623	Municipio de Cabo Rojo
RCRAInfo	RCRA	PRN008009185	TINTORERÍA HOMBRE MODERNO	RD 307 KM 0.7, CABO ROJO, PR 00623	Municipio de Cabo Rojo

Códigos SIC (Clasificación Industrial Estándar) de la instalación

Sistema	identificador	Código SIC	Descripción del SIC
ICIS-Aire	PR0000007202300016	7219	Servicios de lavandería y prendas de vestir

Códigos NAICS (Sistema de clasificación de la industria de América del Norte) de las instalaciones

Sistema	identificador	Código SCIAN	Descripción del NAICS
ICIS-Aire	PR0000007202300016	999999	

Información de la tribu de instalaciones

Nombre de la reserva	Nombre de la tribu	Identificación tribal de la EPA	Distancia a la tribu (millas)

No se devolvieron registros de datos

Ejecución y Cumplimiento

Historial de monitoreo de cumplimiento

Últimos 5 años

Estatuto	Identificación de la fuente	Sistema	Tipo de actividad	Tipo de supervisión de cumplimiento	Agencia principal	Fecha	Hallazgo (si corresponde)

No se devolvieron registros de datos

Las entradas en cursiva no cuentan como inspecciones oficiales de la EPA.

Datos de resumen de cumplimiento

Estatuto	Identificación de la fuente	SNC (Incumplimiento significativo) actual / VPH (Infracción de alta prioridad)	Actual a partir de	Qtrs con NC (Incumplimiento) (de 12)	Datos actualizados por última vez
CAA	PR0000007202300016	No	29/07/2023	0	28/07/2023
RCRA	PRN008009185	No	29/07/2023	0	28/07/2023

Historial de cumplimiento de tres años por trimestre

Estatuto	Programa/Contaminante/Tipo de infracción	Trimestre 1	Trimestre 2	Trimestre 3	Trimestre 4	Trimestre 5	Trimestre 6	Trimestre 7	Trimestre 8	Trimestre 9	Trimestre 10	Trimestre 11	Trimestre 12 +
CAA (Identificación de la fuente: PR0000007202300016)		01/10 - 31/12/20 _	01/01 - 31/03/21 _	01/04 - 30/06/21 _	01/07 - 30/09/21 _	01/10 - 31/12/21 _	01/01 - 31/03/22 _	01/04 - 30/06/22 _	01/07 - 30/09/22 _	01/10 - 31/12/22 _	01/01 - 31/03/23 _	01/04 - 30/06/23 _	01/07 - 30/09/23 _
	Estado a nivel de instalación	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada
	Historial de VPH												
	Tipo de infracción / Agencia / Programas / Contaminantes												

Estatuto	Programa/Contaminante/Tipo de infracción	Trimestre 1	Trimestre 2	Trimestre 3	Trimestre 4	Trimestre 5	Trimestre 6	Trimestre 7	Trimestre 8	Trimestre 9	Trimestre 10	Trimestre 11	Trimestre 12 +
RCRA (ID de la fuente: PRN008009185)		01/10 - 31/12/20 _	01/01 - 31/03/21 _	01/04 - 30/06/21 _	01/07 - 30/09/21 _	01/10 - 31/12/21 _	01/01 - 31/03/22 _	01/04 - 30/06/22 _	01/07 - 30/09/22 _	01/10 - 31/12/22 _	01/01 - 31/03/23 _	01/04 - 30/06/23 _	01/07 - 30/09/23 _
	Estado a nivel de instalación	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada	Ninguna infracción identificada
	Violación / Agencia												

Acciones de cumplimiento informales

Últimos 5 años

Estatuto	Sistema	Identificación de la fuente	Tipo de Acción	Agencia principal	Fecha

No se devolvieron registros de datos

Las entradas en cursiva no se cuentan como "acciones de cumplimiento informales" en las políticas de la EPA relacionadas con las herramientas de respuesta de cumplimiento.

Acciones formales de ejecución

Últimos 5 años

Estatuto	Sistema	Ley/Sección	Identificación de la fuente	Tipo de Acción	No caso.	Agencia principal	Nombre del caso	Fecha de emisión/presentación	Liquidaciones/Acciones	Fecha de liquidación/acción	Pena federal evaluada	Sanción estatal/local evaluada	Importe de la multa cobrado	Valor SEP	Costo de la acción compensatoria

No se devolvieron registros de datos

Condiciones ambientales

cuencas hidrográficas

HUC WBD (Conjunto de datos de límites de cuencas hidrográficas) de 12 dígitos (RAD (Base de datos de direcciones de alcance))	(Conjunto de datos de límites de cuencas hidrográficas)Nombre de subcuenca WBD ((Conjunto de datos de límites de cuencas hidrográficas)RAD (Base de datos de direcciones de alcance))	Nombre del cuerpo de agua estatal (ICIS (Sistema Integrado de Información de Cumplimiento))	Cierres de playas en el último año	Cierres de playas en los últimos dos años	Contaminantes potencialmente relacionados con el deterioro	¿ Cuenca con especies acuáticas incluidas en la lista de la ESA ? (Ley de especies en peligro de extinción)

No se devolvieron registros de datos

Aguas evaluadas de la última presentación estatal (ATTAINS)

Estado	Ciclo de informe	Identificación de la unidad de evaluación	Nombre de la unidad de evaluación	Condición del agua	Causa Grupos Deteriorados	Uso de agua potable	Vida acuática	Pescado Consumo Uso	Uso recreativo	Otro uso

No se devolvieron registros de datos

Áreas de incumplimiento de la calidad del aire

Contaminante	¿Dentro del área de estado de incumplimiento?	Estado de incumplimiento Estándar(es) aplicable(s)	¿Dentro del área de estado de mantenimiento?	Estado de mantenimiento Estándar(es) aplicable(s)

No se devolvieron registros de datos

Contaminantes

Inventario de Emisiones Tóxicas Historial de Sustancias Químicas Emitidas en Libras por Año en el Sitio

ID de la instalación TRI	Año	Emisiones Totales al Aire	Descargas de aguas superficiales	Transferencias fuera del sitio a POTW (Obras de Tratamiento de Titularidad Pública)	Inyecciones Subterráneas	Liberaciones a la Tierra	Emisiones totales en sitio	Transferencias totales fuera del sitio

No se devolvieron registros de datos

Inventario de Emisiones Tóxicas Emisiones y Transferencias Totales en Libras por Químico y Año

Nombre químico

No se devolvieron registros de datos

CWA (Ley de Agua Limpia) Informe de monitoreo de descarga (DMR) Cargas de contaminantes

Informe de carga plurianual de DMR y TRI

No se devolvieron registros de datos

Comunidad

La justicia ambiental

Esta sección muestra índices de EJScreen, la herramienta de evaluación de la EPA para inquietudes de justicia ambiental (EJ). La EPA utiliza estos índices para identificar áreas geográficas que pueden justificar una mayor consideración o análisis de posibles preocupaciones de justicia ambiental. El uso de estos índices no designa un área como "comunidad de EJ" o "instalación de EJ". EJScreen proporciona indicadores de nivel de detección, no una determinación de la existencia o ausencia de preocupaciones de EJ. Para obtener más información, consulte la página de inicio de EJScreen .

Se muestran los índices de EJScreen

Comparar con (•) A NOSOTROS ( ) Estado

Tipo de índice ( ) La justicia ambiental (•) Hecho suplementario

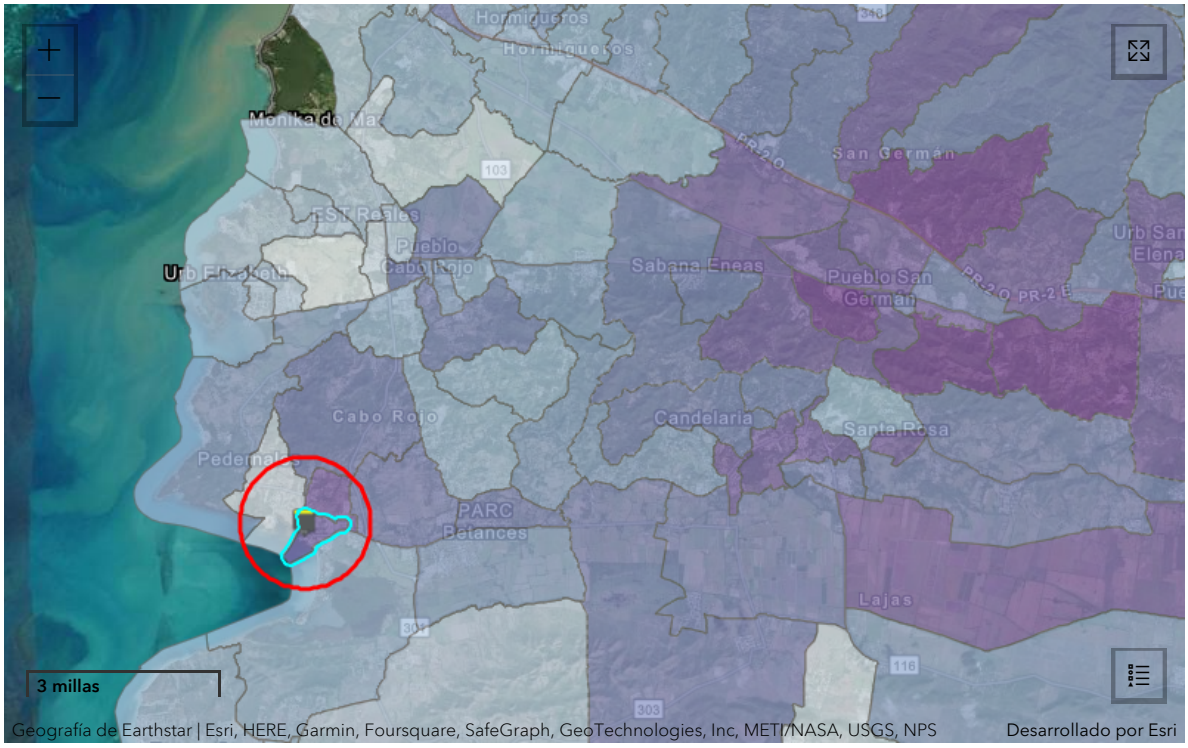
Informes relacionados

Informe de la comunidad EJScreen

Descargar datos

Identificación del grupo del bloque censal: 720238306052	EE. UU. (Percentil)	
Índices suplementarios	Grupo de bloques del censo de instalaciones	Máximo de 1 milla
Recuento de índices en el percentil 80 o superior	**6**	**6**
Material particulado 2.5	0	--
Ozono	0	--
Partículas diésel	0	6
Tóxicos del aire Riesgo de cáncer	43	43
Índice de riesgo respiratorio de tóxicos del aire	48	48
Emisiones tóxicas al aire	! 99	! 99
Proximidad al tráfico	! 97	! 97
Pintura con plomo	! 99	! 99
Plan de gestión de riesgos (RMP) Proximidad a las instalaciones	66	66
Residuos Peligrosos Proximidad	74	74
Superfondo Proximidad	! 99	! 99
Tanques de Almacenamiento Subterráneos (UST)	! 99	! 99
Descarga de aguas residuales	! 99	! 99

○ Radio de 1 milla de la instalación ☐ Grupo de bloques del censo de instalaciones



Perfil demográfico del área circundante (1 milla)

Esta sección proporciona información demográfica sobre la comunidad que rodea la instalación . Los datos de cumplimiento de ECHO por sí solos no son suficientes para determinar si las infracciones en una instalación en particular tuvieron impactos negativos en la salud pública o el medio ambiente. Las estadísticas se basan en el Censo de EE. UU. de 2010 y el Resumen de 5 años de la Encuesta sobre la comunidad estadounidense (ACS) de 2017 - 2021 y son precisas en la medida en que la latitud y la longitud de las instalaciones que se enumeran a continuación son correctas. La metodología de procesamiento espacial de la EPA considera la superposición entre los radios seleccionados y los bloques censales (para los datos demográficos del censo de EE. UU.) y los grupos de bloques censales (para los datos demográficos de la ACS) al determinar los datos demográficos que rodean la instalación .. Para obtener más detalles sobre esta metodología, consulte el Diccionario de datos DFR .

Estadísticas generales (censo de EE. UU.)	
Personas Totales	2,476
Densidad de población	1,042/mi2
Unidades de vivienda en el área	2,496

Estadísticas Generales (ACS (Encuesta sobre la comunidad estadounidense))	
Personas Totales	1,915
Porcentaje de personas de color	100%
Hogares en el área	626
Hogares en Asistencia Pública	53
Personas con Bajos Ingresos	1,493
Porcentaje con bajos ingresos	79%

Geografía

Desglose por edad (censo de EE. UU.) - Personas (%)	
Niños de 5 años y menores	106 (4%)
Menores de 17 años y menores	430 (17%)
Adultos mayores de 18 años	2.046 (83%)
Adultos mayores de 65 años	580 (23%)

Desglose por raza (censo de EE. UU.) - Personas (%)	
Blanco	2.093 (85%)
Afroamericano	100 (4%)
Origen hispano	2.401 (97%)
Asiático/Isleño del Pacífico	5 (0%)
indio americano	11 (0%)
Otro/Multirracial	267 (11%)

Geografía	
Radio del área seleccionada	1 milla
Latitud central	18.029931
Longitud central	-67.175168
Área terrestre	72%
Área de agua	28%

Desglose de Renta (ACS (Encuesta sobre la comunidad estadounidense)) - Hogares (%)	
Menos de $15,000	247 (39,52%)
$15,000 - $25,000	51 (8,16%)
$25,000 - $50,000	246 (39,36%)
$50,000 - $75,000	42 (6,72%)
Más de $75,000	39 (6,24%)

Nivel de Educación (Personas de 25 años y más) (ACS (Encuesta sobre la comunidad estadounidense)) - Personas (%)	
Menos de noveno grado	502 (30,85%)
9.° a 12.° grado	142 (8,73%)
Diploma de escuela secundaria	288 (17,7%)
Algo de universidad/2 años	177 (10,88%)
BS/BA (Licenciatura en Ciencias/Licenciatura en Artes) o más	245 (15,06%)

ÚLTIMA ACTUALIZACIÓN EL 21 DE SEPTIEMBRE DE 2022

INFORMACIÓN DE ACTUALIZACIÓN DE DATOS

Detailed Facility Report

Facility Summary

LAS CASITAS DE BOQUERON

ROAD PR-307 KM. 8.7, CABO ROJO, PR 00622

FRS (Facility Registry Service) ID: 110071254216

EPA Region: 02

Latitude: 18.0296

Longitude: -67.1744

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR1000DR)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110071254216					N	18.0296	-67.1744
ICIS-NPDES	CWA	PRR1000DR	Non-Major: General Permit Covered Facility	Effective	Construction Stormwater	02/16/2027	N	18.0296	-67.1744

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071254216	LAS CASITAS DE BOQUERON	ROAD PR-307 KM. 8.7, CABO ROJO, PR 00622	Cabo Rojo Municipio
ICIS-NPDES	CWA	PRR1000DR	LAS CASITAS DE BOQUERON	ROAD PR-307 KM. 8.7, CABO ROJO, PR 00622	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR1000DR	No	09/30/2024	0	03/07/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA (Source ID: PRR1000DR)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-03/07/25
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Undetermined
	Quarterly Noncompliance Report History													

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.

Formal Enforcement Actions

Last 5 Years

Statute	System	Law/ Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/ Filed Date	Settlements/ Actions	Settlement/ Action Date	Federal Penalty Assessed	State/ Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100040101	Coastal Watershed West of Quebrada Boqueron mouth	BOQUERON BAY (LAGUNA GUANIQUILLA TERRITORY)	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRSN0023	LAGUNA GUANIQUILLA	Impaired - 303(d) Listed	ORGANIC ENRICHMENT/OXYGEN DEPLETION | PH/ACIDITY/CAUSTIC CONDITIONS | TURBIDITY	--	Not Supporting	--	Insufficient Information	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

Toxics Release Inventory History of Reported Chemicals Released or Transferred in Pounds per Year at Site

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name

No data records returned

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	2,211
Population Density	875/sq.mi.
Housing Units in Area	1,919
Percent People of Color	98%
Households in Area	769
Households on Public Assistance	56
Persons With Low Income	1,587
Percent With Low Income	72%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.0296
Center Longitude	-67.1744
Total Area	3.121 sq.mi.
Land Area	81%
Water Area	19%

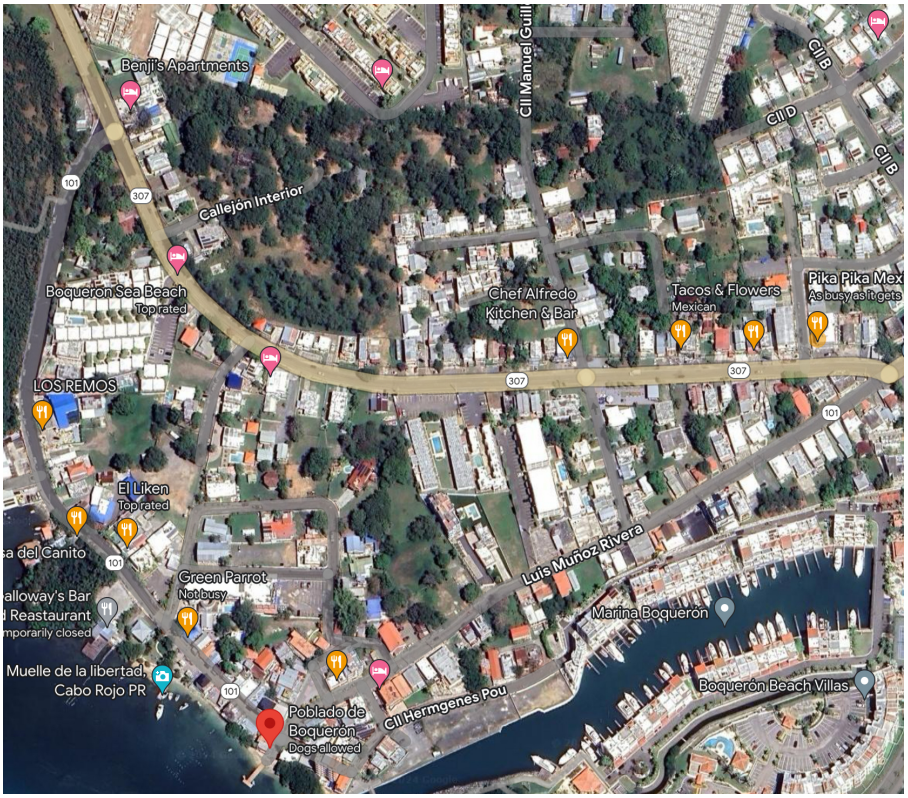
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	218 (28.31%)
$15,000 - $25,000	83 (10.78%)
$25,000 - $50,000	282 (36.62%)
$50,000 - $75,000	89 (11.56%)
Greater than $75,000	98 (12.73%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	42 (2%)
Minors 17 years and younger	228 (10%)
Adults 18 years and older	1,983 (90%)
Seniors 65 years and older	600 (27%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	863 (39%)
African-American	272 (12%)
Hispanic-Origin	2,171 (98%)
Asian	4 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	4 (0%)
Other/Multiracial	810 (37%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	379 (20.89%)
9th through 12th Grade	142 (7.83%)
High School Diploma	365 (20.12%)
Some College/2-year	175 (9.65%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	431 (23.76%)

LEAD BASED PAINT
INSPECTION REPORT



PROJECT:

PR-CRP-000847

Poblado Boquerón Cabo Rojo, PR, 00622

PREPARED FOR:
Ingenium Professional Group PSC

PREPARED BY:
Claudio Cabral

INSPECTION DATE:
May 23, 2024

REPORT DATE:
May 25, 2024

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APPENDIX I: CERTIFICATIONS AND CREDENTIALS

APPENDIX II: SUMMARY OF XRF READINGS

APPENDIX III: LOCATION MAP

APPENDIX VI: PHOTO LOG

APPENDIX V: NO PRESENCE OF LEAD PAINT LETTER ____ YES__X__ NO

SUMMARY

A survey for Lead Based Paint (LBP) was conducted by Innovate Corporation, by Mr. Claudio Cabral on May 23, 2022 for the Boquerón Cabo Rojo, PR, (Project **PR-CRP-000847**). The assigned area is located at Poblado Boquerón Cabo Rojo, PR, 00622. The assigned area appears to have been built about 40 years ago, around the 1980's to 1990's. The survey was conducted in order to identify LBP coatings on and within the site, which is scheduled for renovation or demolition. The survey included complete testing of all accessible and visible surfaces. Inspections were conducted with an XRF instrument manufactured by Thermo Scientific and/or paint chip collection for chemical analysis by a qualified laboratory.

- **Positive LBP coatings were detected during this inspection (XRF readings). A summary of LBP components, where detected, are shown in Appendix II.**

1.0 INTRODUCTION

A survey for Lead Based Paint (LBP) was conducted by Innovate Corporation, by Mr. Claudio Cabral on May 23, 2024 for Poblado Boquerón Cabo Rojo, PR (Project **PR-CRP-000847)**. The assigned area is located at Poblado Boquerón Cabo Rojo, PR, 00622. The survey was conducted in order to identify LBP coatings on and within the site, which is scheduled for renovation or demolition. The survey was conducted using the single-family testing protocol outlined by HUD in 1997. The inspection was conducted by Claudio Cabral. Mr. Cabral is a Lead Risk Assessor (LBPRA-34723-422).

2.0 LEAD BASED PAINT METHODOLOGY

The lead-based paint testing protocol officially available at the time of this survey was published by HUD initially in 1990, revised in 1991 and finalized in 1995. A revised Chapter 7 was published in 1997. In accordance with the new protocol, all surfaces present at the site must be tested. The above guidelines were used to perform lead based-paint testing for this investigation.

The hazard level of lead in paint has been determined by the Department of Housing & Urban Development (HUD) to be 1.0 mg/cm2, as measured by XRF or Atomic Absorption Spectroscopy (AAS), or 0.5% by weight (or 5000 ppm) as measured by

AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The main steps involved in a single-family inspection are:

1. Select the painted area to be tested
2. Classify XRF and paint chips results
3. Collect and analyze paint chip samples, for inconclusive results
4. Classify paint chips results
5. Review and evaluate the data
6. Report findings

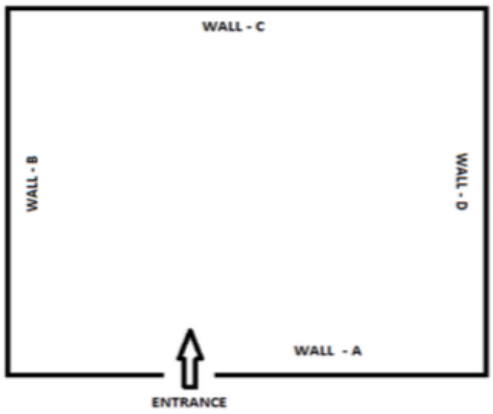
3.0 TESTING PROCEDURE

For this survey, the painted components testing was performed with a Thermo Scientific, and/or Niton X Ray fluorescence instrument (serial number 113997). The instrument operates in two modes: 1) standard mode and 2) time corrected mode (Lead in Paint K+L variable reading time mode). The standard mode is selected for the NIST reference readings to ensure that instrument is working according to the manufacturer's Performance Characteristic Sheet (PCS). The mode selected for sampling of components was the time corrected mode (Lead in Paint variable reading time mode) which allows reference to the abatement level set 1.0 mg/cm2. The results are reported

at 95% confidence levels and the quality of the testing verified according to the manufacturer's recommendations. Results are evaluated based on the following criteria:

- If the results of the surface analyzed by the XRF Spectrum Analyzer is less than 1.0 mg/cm2 it is considered negative.
- If the results of the surface analyzed by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm2 it is considered positive.
- In case of inconclusive results, paint chips (sample of the paint) will be analyzed at the laboratory and reported by weight or ppm.

Component sampling was conducted using a clockwise path for all functional spaces including exterior sides of selection as per the following figure:



4.0 RESULTS AND CONCLUSIONS

One hundred fifty (150) XRF readings were taken. Positive LBP components were found at the time of this inspection. The results of the tested components are shown in Appendix II. **(Positive Results)**

5.0 LIMITATIONS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. All results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the site. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project, as discussed. This report is not intended for use as a bidding document. All contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Innovate Corporation does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

Innovate Corporation conducted this survey in a manner as comprehensive as possible; however, hidden or concealed coatings not accessible at the time of this inspection may be discovered. If previously unidentified coatings are discovered, please contact us for further assessment prior to disturbance.

APPENDIX I: CERTIFICATIONS AND CREDENTIALS



Claudio Cabral Rivas
Lead Risk Assessor
LBPRA-34723-422

GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Innovate Corporation

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 127 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Firma** para llevar a cabo actividades relacionadas a Mitigación de Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-16723-025

Fecha de emisión: Junio 24, 2023

Fecha de Expiración: Junio 23, 2024

José Roque Juliá
Jefe
División Desperdicios Tóxicos

Innovate



ThermoFisher
SCIENTIFIC

CERTIFICATE

This Certifies that

Claudio Cabral

Has successfully completed

Safety Training for
~ Sealed Source XRF - Radiation Safety~

Supervisor Signature

6/18/2020
COMPLETION DATE

Jean Geslin
Jean Geslin, RSO
Thermo Fisher Scientific

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}Cd
Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.
XLp 300A, XLp 301A, XLp 302A and XLp 303A.
XLi 700A, XLi 701A, XLi 702A and XLi 703A.
XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX II: SUMMARY OF XRF READINGS

XRF Form for Lead Base Paint Inspection

Customer Name:	Ingenium Professional Group	Project Name:	PR-CRP-000847 Cabo Rojo
Contact:	Jaymarie Correa	Total Samples:	150
Tel:	787-512-0825	Bldg/Structure:	Sidewalks, Hydrants etc.
Collected By:	Claudio Cabral	Floor:	1
Date:	23-May-24	XRF Serial No.	Thermo Niton 300 (113997)
bject Description:	LBP inspection		

Reading #	Structure	Room	Sustrate	Color	Component & Location	XRF Reading mg/cm2	Paint Condition	Measurement
1	Calibration					0.900		
2	Calibration					1.100		
3	Calibration					1.100		
4	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Main Entrance Sidewalk Left Side	0.000	Good	
5	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Main Entrance Sidewalk Right Side	0.000	Good	
6	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 1 Left Side	0.010	Good	
7	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 2 Left Side	0.000	Good	
8	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 3 Left Side	0.010	Good	
9	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 4 Left Side	0.020	Good	
10	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 5 Left Side	0.010	Good	
11	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 6 Left Side	0.000	Good	
12	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 7 Left Side	0.020	Good	
13	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 8 Left Side	0.020	Good	
14	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk mini Ramp 9 Left Side	0.020	Good	
15	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Casa Elaine Right Side	0.050	Good	
16	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Casa Elaine Sideline Right Side	0.010	Good	
17	PR-CRP-000847	Exterior	Concrete	White	Cll Luis Munoz Rivera Sidewalk Casa Elaine Left Side Lamppost	0.000	Good	
18	PR-CRP-000847	Exterior	Wood	White	Cll Luis Munoz Rivera Sidewalk Casa Elaine Left Side Lamppost	0.010	Good	
19	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sunset View Sidewalk Left Side	0.000	Good	
20	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sunset View Sidewalk Right Side	0.000	Good	
21	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sunset View Sidewalk Right Side	0.000	Good	
22	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sunset View Sidewalk Left Side Mini Ramp	0.000	Good	
23	PR-CRP-000847	Exterior	Metal	Yellow	Cll Luis Munoz Rivera Sunset View Sidewalk Left Side Tubes	0.030	Good	
24	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Right Side Mini Ramp 1	0.020	Good	
25	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Right Side Mini Ramp 2	0.010	Good	
26	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera km 18.8 Sidewalk Right Side	0.010	Good	
27	PR-CRP-000847	Exterior	Metal	Yellow	Luis Munoz Rivera/ Fermin Morales Right Side Hydrant	0.000	Good	
28	PR-CRP-000847	Exterior	Concrete	Brown	Cll Luis Munoz Rivera/Fermin Morales Sidewalk Left Side	0.000	Good	
29	PR-CRP-000847	Exterior	Concrete	Blue	Cll Luis Munoz Rivera/Fermin Morales Sidewalk Left Side	0.000	Good	
30	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Fermin Morales Sidewalk Right Side	0.010	Good	

31	PR-CRP-000847	Exterior	Metal	Yellow	Cll Luis Munoz Rivera/Fermin Morales Sidewalk Right Side Sewer	0.010	Good	
32	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Dra.Lizzette Left Side	0.050	Good	
33	PR-CRP-000847	Exterior	Concrete	White	Cll Luis Munoz Rivera Sidewalk Dra.Lizzette Left Side	0.070	Good	
34	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk Dra.Lizzette Right Side	0.020	Good	
35	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk cond Cristina del Mar Right Side	0.020	Good	
36	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Sidewalk cond Cristina del Mar Left Side	0.020	Good	
37	PR-CRP-000847	Exterior	Concrete	White	Cll Luis Munoz Rivera cond Cristina del Mar Right Side Lamppost	0.000	Good	
38	PR-CRP-000847	Exterior	Concrete	White	Cll Luis Munoz Rivera km 19 Sidewalk Left Side	0.000	Good	
39	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera km 19 Sidewalk Righ Side	0.000	Good	
40	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera km 19 Sidewalk Right Side Mini Ramp	0.000	Good	
41	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera km 19 Sidewalk Right Side Fence	0.000	Good	
42	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera km 19 Sidewalk Left Side Ramp	0.010	Good	
43	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Km 19 Right Side Hydrant	0.000	Good	
44	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Hemogenses Sidewalk Left Side	0.020	Good	
45	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Hemogenses Sidewalk Right Side	0.000	Good	
46	PR-CRP-000847	Exterior	Concrete	N/A	Cll Hemogenses Sidewalk Left Side Unpainted	0.000	Good	
47	PR-CRP-000847	Exterior	Metal	Yellow	Cll Hemogenses Sidewalk Left Side Fence Tubes	0.020	Good	
48	PR-CRP-000847	Exterior	Concrete	Beige	Cll Hemogenses Sidewalk Right Side Side Wall	0.000	Good	
49	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Hemogenses Side Walk Sideline on Sewer Right Side	0.010	Good	
50	PR-CRP-000847	Exterior	Concrete	Blue	Cll Hemogenses/Barbosa Sidewalk Right Side	0.000	Good	
51	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Hemogenses/Barbosa Sidewalk Right Side	0.000	Good	
52	PR-CRP-000847	Exterior	Metal	Black	Cll Hemogenses/Barbosa Sidewalk Right Side Railings	0.020	Good	
53	PR-CRP-000847	Exterior	Metal	Yellow	Cll Barbosa/Jose De Diego Left Side Hydrant	0.000	Good	
54	PR-CRP-000847	Exterior	Metal	Yellow	Cll Barbosa/Jose De Diego Left Side Around Hydrant Tubes	0.000	Good	
55	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Barbosa/Jose De Diego Sidewalk Right Side	0.000	Good	
56	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose De Diego Sidewalk Left Side Ramp	0.000	Good	
57	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose De Diego Sidewalk Right Side	0.000	Good	
58	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose De Diego Sidewalk Left Side	0.000	Good	
59	PR-CRP-000847	Exterior	Concrete	Blue	Cll Jose De Diego Sidewalk Left Side	0.000	Good	
60	PR-CRP-000847	Exterior	Concrete	White	Cll Luis Munoz Rivera Tattoos Sidewalk Left Side	0.000	Good	
61	PR-CRP-000847	Exterior	Concrete	Blue	Cll Luis Munoz Rivera Tattoos Sidewalk Left Side	0.000	Good	
62	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera Tattoos Sidewalk Right Side	0.000	Good	
63	PR-CRP-000847	Exterior	Concrete	Blue	Cll Luis Munoz Rivera Tattoos Sidewalk Right Side	0.000	Good	
64	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Barbosa Sidewalk Left Side	0.000	Good	
65	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Barbosa Sidewalk Right Side	0.000	Good	

66	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Barbosa Sidewalk Right Side	0.000	Good	
67	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Luis Munoz Rivera/Barbosa Sidewalk Right Side Ramp	0.000	Good	
68	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose De Diego Cabo Side Walk Left Side	0.000	Good	
69	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose De Diego Cabo Side Walk Right Side	0.000	Good	
70	PR-CRP-000847	Exterior	Concrete	Blue	Cll Jose De Diego RedSun Side Walk Right Side	0.000	Good	
71	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Jose de Diego Ventana del Mar Sidewalk Left Side	0.000	Good	
72	PR-CRP-000847	Exterior	Concrete	Blue	Cll Jose de Diego Ventana del Mar Sidewalk Left Side Ramp	0.000	Good	
73	PR-CRP-000847	Exterior	PVC	Gray	Plaza Ventana del Mar and Sidewalk Floor	0.000	Good	
74	PR-CRP-000847	Exterior	Wood	Yellow	Cll Jose de Diego Ventana del Mar Sidewalk Left Side	0.030	Good	
75	PR-CRP-000847	Exterior	Concrete	Yellow	Plaza Mangle Rojo sidewalk	0.000	Good	
76	PR-CRP-000847	Exterior	Concrete	Blue	Plaza Mangle Rojo sidewalk Ramp	0.000	Good	
77	PR-CRP-000847	Exterior	PVC	Gray	Plaza Mangle Rojo sidewalk floor	0.000	Good	
78	PR-CRP-000847	Exterior	Metal	Blue	Plaza Mangle Rojo sidewalk Gazebos Columns	0.010	Good	
79	PR-CRP-000847	Exterior	Concrete	Yellow	Plaza Mangle Rojo sidewalk Right Side	0.020	Good	
80	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Matos/Severiano Carlos Sidewalk Left Side	0.000	Good	
81	PR-CRP-000847	Exterior	Concrete	Blue	Cll Matos/Severiano Carlos Sidewalk Left Side	0.000	Good	
82	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Matos/Severiano Carlos Sidewalk Right Side	0.000	Good	
83	PR-CRP-000847	Exterior	Concrete	Blue	Cll Matos/Severiano Carlos Sidewalk Right Side	0.000	Good	
84	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Red Sunset Ramp	0.000	Good	
85	**PR-CRP-000847**	**Exterior**	**Metal**	**Red**	**Cll Gil Buyet Hydrant**	**3.100**	**Good**	
86	**PR-CRP-000847**	**Exterior**	**Metal**	**Yellow**	**Cll Gil Buyet Hydrant Around Tube**	**2.500**	**Good**	
87	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Gil Buyet Sidewalk Left Side	0.230	Good	
88	**PR-CRP-000847**	**Exterior**	**Concrete**	**Yellow**	**Cll Gil Buyet Sidewalk Left Side Tubes**	**2.300**	**Good**	
89	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Gil Buyet Sidewalk Right Side	0.030	Good	
90	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Gil Buyet stop bump	0.000	Good	
91	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Right Street Sidewalk Left Side	0.000	Good	
92	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Right Street Sidewalk Left Side Tubes	0.000	Good	
93	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Right Street Sidewalk Right Side	0.000	Good	
94	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Right Street Sidewalk Right Side Tubes	0.000	Good	
95	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Right Street Sidewalk Left Side	0.020	Good	
97	PR-CRP-000847	Exterior	Wood	Yellow	Cll Severiano Carlos Right Street Sidewalk Left Side Lamppost	0.030	Good	
98	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Sidewalk Left Side	0.000	Good	
99	PR-CRP-000847	Exterior	Metal	Yellow	Cll Severiano Carlos Sidewalk Left Side Tubes	0.030	Good	
100	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Sidewalk Right Side	0.000	Good	
101	PR-CRP-000847	Exterior	Concrete	Blue	Cll Severiano Carlos Sidewalk Right Side	0.000	Good	
102	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Left Street SideWalk Right Side	0.000	Good	
103	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Left Street SideWalk Left Side	0.000	Good	
104	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Left Street SideWalk Left Side Tubes	0.020	Good	
105	PR-CRP-000847	Exterior	Concrete	Yellow	Cll Severiano Carlos Left Street SideWalk Right Side Ramp	0.000	Good	

106	PR-CRP-000847	Exterior	Concrete	Gray	Plaza ventana del mar Sitting Area	0.000	Good	
107	PR-CRP-000847	Exterior	Metal	Gray	Plaza ventana del mar Lamppost Area	0.000	Good	
108	PR-CRP-000847	Exterior	Metal	Blue	Plaza ventana del mar Gazebos Columns Area	0.010	Good	
109	PR-CRP-000847	Exterior	Concrete	Green	Plaza ventana del mar Structure Walls	0.000	Good	
110	PR-CRP-000847	Exterior	Concrete	White	Plaza ventana del mar Structure Walls	0.000	Good	
111	PR-CRP-000847	Exterior	Concrete	Gray	Plaza Mangle Rojo Sitting Area	0.000	Good	
112	PR-CRP-000847	Exterior	Concrete	Gray	Plaza Mangle Rojo Structure Walls	0.000	Good	
113	PR-CRP-000847	Exterior	Metal	Blue	Plaza Mangle Rojo Structure Columns	0.010	Good	
114	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Red Sunset Left Side	0.000	Good	
115	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Red Sunset Left Side	0.000	Good	
116	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk El Liken Left Side	0.000	Good	
117	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk El Liken Right Side	0.000	Good	
118	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk El Mercado Left Side	0.000	Good	
119	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk El Mercado Right Side	0.000	Good	
120	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk El Mercado Left Side Lamppost	0.000	Good	
121	PR-CRP-000847	Exterior	PVC	Gray	PR 101 Side Walk Floor	0.000	Good	
122	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk Los Remos Left Side	0.000	Good	
123	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk Los Remos Right Side	0.000	Good	
124	PR-CRP-000847	Exterior	Metal	Yellow	PR 101 Sidewalk Los Remos Right Side Hydrant	0.000	Good	
125	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk Gas Garage Left Side Lamppost	0.000	Good	
126	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk Gas Garage Left Side Mini Column	0.000	Good	
127	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk Gas Garage Right Side	0.000	Good	
128	PR-CRP-000847	Exterior	Metal	Yellow	PR 101 Sidewalk Gas Garage Right Side Hydrant	0.140	Good	

129	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 Sidewalk The Copy Right Side	0.000	Good	
130	PR-CRP-000847	Exterior	Concrete	Blue	PR 101 Sidewalk The Copy Right Side	0.000	Good	
131	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Right Side	0.000	Good	
132	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Right Side Lamppost	0.000	Good	
133	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Left Side	0.020	Good	
134	PR-CRP-000847	Exterior	Wood	Yellow	PR 101 sidewalk Left Side tube	0.000	Good	
135	PR-CRP-000847	Exterior	Concrete	Blue	PR 101 sidewalk Right Side 307 Int Ramp	0.000	Good	
136	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Right Side 307 Int	0.110	Good	
137	PR-CRP-000847	Exterior	Concrete	Yellow	PR 101 sidewalk Right Side 307 Int Y	0.000	Good	
138	PR-CRP-000847	Exterior	Concrete	White	PR 101 sidewalk Right Side 307 Int	0.020	Good	
139	PR-CRP-000847	Exterior	Wood	Yellow	PR 101 sidewalk Right Side 307 Int Y Lamppost	0.000	Good	
140	PR-CRP-000847	Exterior	PVC	Gray	Plaza Margarita Pabon Floor	0.000	Good	
141	PR-CRP-000847	Exterior	Metal	Gray	Plaza Margarita Pabon Lamppost	0.010	Good	
142	PR-CRP-000847	Exterior	Concrete	Gray	Plaza Margarita Pabon Sitting Area	0.000	Good	
143	PR-CRP-000847	Exterior	Concrete	Blue	Plaza Margarita Pabon Sitting Area	0.000	Good	
144	PR-CRP-000847	Exterior	Metal	N/A	Plaza Margarita Pabon Sewer Unpainted	0.000	Good	
145	PR-CRP-000847	Exterior	Concrete	Yellow	Plaza Margarita Pabon Side Walk	0.000	Good	
146	PR-CRP-000847	Exterior	Concrete	Blue	Plaza Margarita Pabon Side Walk	0.000	Good	
147	PR-CRP-000847	Exterior	Concrete	Gray	Plaza Margarita Pabon Columns	0.000	Good	
148	Calibration					1.200		
149	Calibration					1.100		
150	Calibration					1.100		

APPENDIX III: LOCATION MAP

PR-CRP-000847



APPENDIX IV: PHOTO LOG

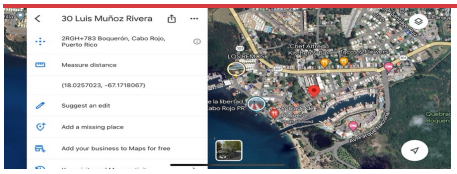
Claudio A. Cabral
Innovate Corporation

PR-CRP-000847 LBP PHOTO LOG

Thursday, May 23, 2024

Prepared For Ingenium Professional Group PSC

4 Issues Identified



LOCATION

Assigned To PR-CRP-000847

18.0257023, -67.1718067



LBP POSITIVE

Assigned To PR-CRP-000847

Cll Gil Buyet Metal Red Hydrant Positive (Reading 85)



LBP POSITIVE

Assigned To PR-CRP-000847

Cll Gil Buyet Hydrant Around Tube Metal Yellow Position (Reading 86)



LBP POSITIVE

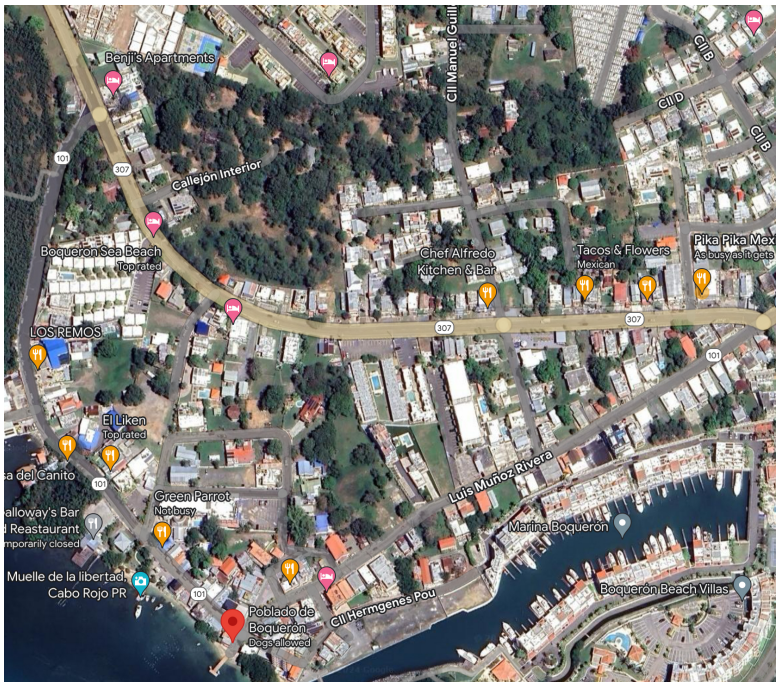
Assigned To PR-CRP-000847

Cll Gil Buyet Middle Street Sidewalk Left Side Tubes Metal Yellow Positive (Reading 88)

APPENDIX IV: NO PRESENCE OF LEAD PAINT LETTER

(N/A) Lead Based Paint was found during the inspection.

ASBESTOS CONTAINING MATERIALS INSPECTION REPORT



PROJECT:

PR-CRP-000847

Poblado Boquerón Cabo Rojo, PR, 00622

PREPARED FOR:
Ingenium Professional Group PSC

PREPARED BY:
Claudio Cabral

INSPECTION DATE:
May 23, 2024

REPORT DATE:
May 25, 2024

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APPENDIX IV: NO PRESENCE OF ASBESTOS LETTER __X__ YES ____ NO

SUMMARY

A survey for Asbestos Containing Material (ACM) was conducted by Innovate Corporation by Mr. Claudio Cabral on May 23, 2024 for Poblado Boqueron Cabo Rojo PR (Project **PR-CRP-000847**). The structure is located at Poblado Boquerón Cabo Rojo, PR, 00622. The assigned area appears to have been built about 40 years ago, around the 1980's to 1990's. The scope of the survey included visual assessment, sampling and physical assessments of suspect ACM materials from the building. The purpose of the inspection was to identify materials that contain asbestos fibers above allowable levels that could cause harm to construction personnel and workers. This evaluation report can help owners develop a plan for mitigating asbestos hazards that were found and may aid in establishing an ongoing asbestos containing materials maintenance and re-evaluation program, if needed.

- **Suspect asbestos containing materials were not found during this inspection. Refer to the following Table 1.1 for a summary of samples collected.**

TABLE 1. 1 SUMMARY OF SAMPLES SUBMITTED

Location	Description	Measurement	Result
No Suspect Asbestos Containing Materials Observed; No Samples Collected			

- No suspect asbestos containing materials were identified on the assigned area.

1.0 INTRODUCTION

A survey of suspect Asbestos Containing Material (ACM) was conducted by Innovate Corporation at the site located at Poblado Boquerón Cabo Rojo, PR, 00622. The assigned area is scheduled to undergo renovation. The inspection was conducted by Claudio Cabral, AHERA Certified Asbestos Building Inspector (**ASB-0224-0072-SI).**

2.0 GENERAL BACKGROUND

Asbestos was used in the construction 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from

building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with several types of lung diseases including a debilitating lung disease called Asbestosis; a rare cancer of chest called Mesothelioma; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not always fatal; it is, however, incurable. Mesothelioma tends to be 100% fatal, as there is no cure.

2.1 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)

The EPA's rules concerning the application, removal and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practice, or procedures for emission control. The rules state that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, (Effective on February 20, 1991), which includes the responsibility of the owner, or operator, to “prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM”. (40 CFR, Part 61, National Emission Standards for Hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 ABATEMENT CONDITIONS

The US Environmental Protection Agency rules concerning the application, removal, and disposal of Asbestos Containing Building Materials (ACBM) were issued under the asbestos NESHAP (U.S. EPA National Emission Standards of Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos N.E.S.H.A.P. regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACBM removed before a building is demolished, and may require its removal before a renovation. The Department of Natural and Environmental Resources (DRNA) of Puerto Rico requires inspecting the presence of Asbestos Containing Materials prior to buildings demolitions. If the identified materials are to be removed, they should be managed following the work practices and procedures for the removal and disposal of asbestos containing materials

by a licensed asbestos contractor and disposed of as contaminated waste in as approved asbestos landfill site. The Contractor shall comply with all the Department of Natural and Environmental Resources (DRNA) of Puerto Rico requirements.

The Contractor has to submit to the DRNA the abatement work plan for its approval. The asbestos abatement is classified Class II for the miscellaneous materials by OSHA, which includes the abatement, packing and storage of asbestos. The abatement has to be performed without damaging any structure or adjacent area and protecting the safety and health of the employees and the general public.

3.1 PROJECT IDENTIFICATION/ DESCRIPTION

The project consists of a Poblado Boquerón Cabo Rojo, PR, 00622 (sidewalks, streets, hydrants etc. Project **PR-CRP-000847**). The assigned area is scheduled to undergo renovation or demolition in the near future. The residence appears to have been constructed around the 1950's to 1960's.

4.0 METHODS OF BUILDING INSPECTION

The visual inspection was conducted according to the condition of suspect ACM observed and the potential for material disturbance. The assessment scheme followed the recommendations by EPA as a result of the Asbestos Hazard Emergency Response Act and outlined in the Code of Federal Regulations 40 CFR Part 763.88 dated October 30, 1987 and amended by 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (Asbestos NESHAP Revision, Final Rule, November 20, 1990).

Each functional space was visually inspected to identify the location of any suspect ACM. An assessment was then made of the friability of suspected ACM by touching the material to determine if it could be pulverized, crumbled or reduced to powder by hand pressure. Upon completion of functional space investigation, bulk sample(s) were collected and grouped into "Homogeneous Sampling Areas" (i.e. areas which are uniform by color, texture, construction/application date and general appearance).

ACM is categorized as follows:

1. Category I, non-friable ACM: This includes asbestos containing packing's, gaskets, resilient floor covering and asphalt roofing products containing more than 1% asbestos.
2. Category II, non-friable ACM: This includes any materials, excluding Category I non-friable ACM containing more than 1% asbestos, that when dry cannot be crumbled, pulverized or reduced to powder by hand pressure.
3. Friable asbestos materials: This includes any material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

A physical hazard assessment was performed based on AHERA regulations. This protocol provides separate analysis for three types of materials: Surfacing, Thermal Insulation and Miscellaneous. However, this protocol does not provide a means for relative ranking of individual hazards within the category. Therefore, a separate analysis was performed as to assess hazard ranking which could be used for this type of material. The hazard assessment combines the level of potential disturbance with the current condition of ACM to indicate overall hazard potential. The rankings of potential hazards range from 1-most hazardous to 7-least hazardous. The highest rank is reserved for ACM which is significantly damaged. A review of the definition of "significant damage" reveals that the definitions are designed to identify ACM, which is so extensively damaged or deteriorated, that it requires immediate corrective action. Hazard rank 2- 4 reflects ACM, which is "damaged" as defined by AHERA, with rank 2

indicating a “potential for significant damage” and rank 3 indicating a “potential for damage”. Hazard ranks 5-7 are reserved for ACM currently in good condition, but with a range in the likelihood for future disturbance.

5.0 SAMPLING METHODS

Guidelines used for this inspection were established by the Environmental Protection Agency (EPA) in the Guidance for Controlling Asbestos Containing Materials in Buildings, 40 CFR Part 763 and Asbestos Hazard Emergency Response Act (AHERA). Field information was organized as per the AHERA concept of Homogeneous Area (HA). Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) with dispersion staining, as described in 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAPS). All samples were sent to AES International, an NVLAP accredited laboratory. Sample locations were chosen to be representative of the homogeneous sampling area.

6.0 INSPECTION RESULTS AND CONCLUSIONS

Asbestos Containing Materials were not found during this inspection.

7.0 LIMITATIONS

This asbestos containing materials survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. All results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the site. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by the Client for specific application to their project, as discussed. This report is not intended for use as a bidding document. All contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Innovate Corporation does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

Innovate Corporation conducted this survey in a manner as comprehensive as possible; however, hidden or concealed materials not accessible at the time of this inspection may be discovered. If previously unidentified suspect asbestos containing materials are discovered, please contact us for further assessment prior to disturbance.



APPENDIX I: CERTIFICATIONS AND ACCREDITATION

Innovate



ASB-0224-0072-SI

Número de Registro

8-ene-2025

Fecha de vencimiento

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Claudio Alejandro Cabral Rivas

Inspector

A trabajar en la remoción de asbesto en Puerto Rico. Esta persona **NO** es un empleado del DRNA.

Firma Autorizada - Departamento Recursos Naturales y Ambientales

Claudio Cabral Rivas
Asbestos Inspector
ASB-0224-0072-SI

APPENDIX II: SAMPLE LOCATION MAP

PR-CRP-000847



No Presence of Suspect Asbestos Containing Material (SACM) on the Inspected Area

PROJECT AREA
POBLADO BOQUERON
COORDINATES (18.024972, -67.173148)

APPENDIX III PHOTO LOG OF SUSPECT ASBESTOS CONTAINING MATERIALS

Claudio A. Cabral
Innovate Corporation

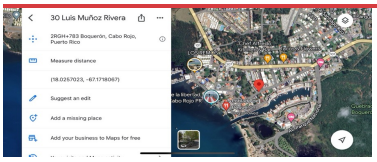
PR-CRP-000847 SACM PHOTO LOG

Cabo Rojo, PR, 00622

Thursday, May 23, 2024

Prepared For Ingenium Professional Group PSC

2 Issues Identified



LOCATION

Assigned To PR-CRP-000847

18.0257023, -67.1718067

SACM (NEGATIVE)

Assigned To PR-CRP-000847

No Presence of Suspect Asbestos Containing Material (SACM) on the inspected area.

APPENDIX IV: NO PRESENCE OF ASBESTOS LETTER

- _____ Not Included – Asbestos Detected
- __x___ Included – No Asbestos Detected (see attached)

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Agua

Forma PGC-009

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PR-CRP-000847

Yo, Claudio Cabral Rivas (Nombre), mayor de edad, Casado (Estado Civil), y vecino de Caguas (Municipio)

Dirección Postal Sureña 144 Vía de la Ermita (Pueblo) Caguas PR 00727 (Zip Code)

Teléfonos: Residencial (787) 593 - 9599 Oficina (_____) _____ - _____ Ext. _____
Fax (_____) _____ - _____

Certifico que:

1. La estructura localizada en (Poblado Boquerón) Calle Jose de Diego, Cabo Rojo, 00622, la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico, hoy día 23 de mayo de 2024

Firma y Sello del Profesional o

Firma del Inspector de Asbesto registrado por la JCA (Original)

Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.

NUM. PERMISO: _____

Dirección Física: Ave. Ponce de León 1308, Carr. Estatal 8838, Sector el Cinco, Río Piedras, PR 00926
Dirección Postal: Apartado 11488, Santurce, PR 00910-1488
Tel. (787) 767-8181 • Fax (787) 767-1962

Attachment D

Endangered Species

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Bayamón | Mayagüez | Maricao | Rio Grande | St Croix
P.O. Box 491
Boquerón, Puerto Rico 00622

In Reply Refer To:
FWS/R4/CESFO/72023-110

Submitted via electronic mail: amaldonado@quantum-value.com

Ms. Alondra Maldonado
Env. Management Environmental Specialist
Quantum Consulting
P.O. Box 5845
Caguas, PR 00726

Re: Rehabilitación y Embellecimiento del Poblado
Boquerón, Cabo Rojo, Puerto Rico

Dear Ms. Maldonado:

This is in reply to your November 23, 2023, follow up letter regarding the above referenced project. Our comments are issued in accordance with the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.) and the Endangered Species Act (16 U.S.C. 1531 et seq. as amended).

Department of Housing and Urban Development (HUD) is requesting informal consultation for the revitalization of the area known as "Poblado de Boquerón". This includes municipal streets, sidewalks, curbs, and public areas within the zone to provide modern facilities for public recreation while promoting tourism around the town. The project's scope of work includes the rehabilitation of sidewalks and curbs, and the replacement, rehabilitation, and/or installation of new LED streetlights.

We initially commented on this project on August 29, 2023. Our main concern at that time was to ensure that all new lighting would comply with wildlife friendly design. The new design plans submitted indicate that recessed wildlife friendly luminaries will be used. This design will minimize light pollution, sky glow and existing deficiencies. Since all work will be within the developed areas of Boquerón, we do not foresee any adverse impacts to listed species with the use of this lighting design.

Thank you for the opportunity to comment on this action, if you have any questions, please contact Felix Lopez of my staff at (305) 304-1128.

Sincerely,

LOURDES MENA

Digitally signed by LOURDES MENA
Date: 2024.01.30 16:54:59 -04'00'
Adobe Acrobat version: 2023.008.20470

Lourdes Mena
Acting Field Supervisor

fhl
cc:
DNER, San Juan
PRPB, San Juan
FEMA, San Juan
HUD, San Juan

Edwin E. Muñiz
Field Supervisor
U.S. Fish and Wildlife Service
PO Box 491
Boquerón, Puerto Rico 00622
Email: caribbean_es@fws.gov

Dear Mr. Muñiz:

Department of Housing and Urban Development (HUD) is requesting informal consultation under Section 7 (a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 *et seq.*), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) for the proposed project *Rehabilitación y Embellecimiento del Poblado Boquerón* located on *PR-101 KM. 18.6 to KM. 19.7 Poblado Boquerón from the Municipality of Cabo Rojo, Puerto Rico;* 18.02495959 N, - 67.17316662 W.

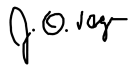
This project aims to revitalize the area of "Poblado de Boquerón," municipal streets, sidewalks, curbs, and public areas within the zone to provide modern facilities for public recreation while promoting tourism around the town. The proposed project coordinates are 18.02495959 N, -67.17316662 W (See Figure 1. Location Aerial Photograph, See Figure 2. Location Topographic Map). The project's scope of work includes the rehabilitation of sidewalks, curbs, the replacement, rehabilitation, and/or installation of new LED pole lights (See Appendix 1. Proposed Public Lighting Distribution Plan). It also includes the reduction of the impermeable area on the streets replacing it with high-quality materials such as cobblestone, the construction of a bench seating area with a plaque in the center describing a brief history of Margarita Pabón and the installation of the emblematic sign of Cabo Rojo in Plaza Margarita Pabón. Other activities include the removal of architectural elements and barriers and instead create strategically greening spaces, and Re-pavement of Hermogenes Pou and Gil Bouyet streets and both entrance streets to the town (Luis Muñoz Rivera and José de Diego).
The project's scope of work is mainly to rehabilitate deficiencies and maintain the existing footprint of the area, improving the current conditions to increase the life span of the "Poblado." The work will have positive results for local and visitor commuters by providing safe public recreation and promoting tourism for the Municipality of Cabo Rojo.

Using the Information for Planning and Consultation (IPaC) system (or other sources eg. Fauna/Flora Survey), we have determined that the proposed project lies within the range of the following federally listed species and critical habitats:

Loggerhead Sea Turtle (*Caretta caretta*)	Not likely to adversely affect (NLAA)	USFWS Loggerhead Sea Turtle
Olive Ridley Sea Turtle (*Lepidochelys olivacea*)	Not likely to adversely affect (NLAA)	USFWS No Conservation Plans currently available for this species.
Cobana Negra (*Chilabothrus inornatus*)	Not likely to adversely affect (NLAA)	USFWS No Conservation Plans currently available for this species.
Critical Habitats		
	There are no critical habitats at this location.	

In order to complete the informal consultation process, we are requesting your concurrence for the NLAA determinations included in this letter. Attached to this letter, we are including the documents used to reach our effect determinations for the listed species. If more information is required, please contact *Jacqueline Otero Vega* at *jotero@quantum-value.com* and *Alondra L. Maldonado Mateo at amaldonado@quantum-value.com*.

Signature



_____

Jacqueline Otero Vega, MS Env. Management
Environmental Specialist



_____

Alondra L. Maldonado Mateo, PhD (c), MS Env. Science
Environmental Specialist

Name of the species	Threatened/Endangered/Candidate
Puerto Rican boa (*Epicrates inornatus*)	Endangered
West Indian Manatee (*Trichechus manatus*)	Threatened
Green Sea Turtle (*Chelonia mydas*)	Threatened
Hawksbill Sea Turtle (*Eretmochelys imbricata*)	Endangered
Leatherback Sea Turtle (*Dermochelys coriacea*)	Endangered
Loggerhead Sea Turtle (*Caretta caretta*)	Threatened
Olive Ridley Sea Turtle (*Lepidochelys olivacea*)	Threatened
Cobana Negra (*Chilabothrus inornatus*)	Endangered

Critical Habitat
There are no critical habitats at this location.

Based on the nature of the project, scope of work, information available, and a careful analysis of the*: IPAC lists, conservation measures that will be implemented, and biological assessment of the site,* we have made the following effects determinations:

Name of the species	Effect Determination	Conservation Measures that will be implemented
Puerto Rican boa (*Epicrates inornatus*)	No effect	USFWS Puerto Rican boa Conservation Measures 2020
West Indian Manatee (*Trichechus manatus*)	Not likely to adversely affect (NLAA)	USFWS West Indian Manatee
Green Sea Turtle (*Chelonia mydas*)	Not likely to adversely affect (NLAA)	USFWS Green Sea Turtle
Hawksbill Sea Turtle *(Eretmochelys imbricata*)	Not likely to adversely affect (NLAA)	USFWS Hawksbill Sea Turtle
Leatherback Sea Turtle (*Dermochelys coriacea*)	Not likely to adversely affect (NLAA)	USFWS Leatherback Sea Turtle

Rehabilitación y Embellecimiento del Poblado Boquerón

Cabo Rojo, PR

Biological Assessment

PR-CRP-000847

U.S. FISH AND WILDLIFE SERVICE- U.S. DEPARTMENT OF INTERIOR

Prepared by:

Alondra L. Maldonado Mateo

Ph.D. (c), MS Env. Science

Environmental Specialist

Date: June 2023

Jacqueline Otero Vega

MS Env. Management

Environmental Specialist

Date: June 2023

Biological Assessment

Rehabilitación y Embellecimiento del Poblado Boquerón
PR-CRP-000847

Prepared By:
Quantum Consulting Group, LLC

June 2023

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1 Introduction

The U.S. Housing and Urban Development has approved the Program Policies for the City Revitalization Program (City Rev Program) under the Community Development Block Grant for Disaster Recovery (CDBG-DR). This program establishes a fund for municipalities to enable various critical recovery activities to reinvigorate urban centers and key community corridors to focus investments, reduce sprawl, and create a symbiotic environment to nurture complementary investments from the private sector. The Municipality of Cabo Rojo has proposed revitalizing the "Poblado de Boquerón," encompassing an area stretching from PR-101 km. 18.6 to km. 19.7. The objective is to enhance municipal streets, sidewalks, curbs, and public spaces within this zone, providing modern facilities for public recreation and fostering tourism in the surrounding area.

Quantum Consulting Group LLC was contracted to perform a Biological Assessment (BA) for the above-described project. A BA is required under section 7(c) of the ESA to fulfill consultation requirements set forth in section 7(a)(2) of the ESA, if Federally listed species or designated critical habitats may be present in the area affected by any "major construction activity". "Major construction activities" are considered to be Federal actions significantly affecting the quality of the human environment as referred to in the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321 et seq.) and defined in 50 CFR 404.02. A BA also may be recommended for other activities to ensure the Federal action agency's early involvement and increase the chances for resolution during informal consultation.

If both Federally listed and proposed species and/or designated and proposed critical habitats are present, then the BA should include both proposed and listed/designated.

2 Description of the Proposed Action

This project aims to revitalize the area of "Poblado de Boquerón," municipal streets, sidewalks, curbs, and public areas within the zone to provide modern facilities for public recreation while promoting tourism around the town. The proposed project coordinates are 18.02495959 N, -67.17316662 W (**See Figure 1. Location Aerial Photograph, See Figure 2. Location Topographic Map**). The project's scope of work includes the rehabilitation of sidewalks, curbs, the replacement, rehabilitation, and/or installation of new LED pole lights (**See Appendix 1. Proposed Public Lighting Distribution Plan**). It also includes the reduction of the impermeable area on the streets replacing it with high-quality materials such as cobblestone, the construction of a bench seating area with a plaque in the center describing a brief history of Margarita Pabón and the installation of the emblematic sign of Cabo Rojo in Plaza Margarita Pabón. Other activities include the removal of architectural elements and barriers and instead create strategically greening spaces, and Re-pavement of Hermogenes Pou and Gil Bouyet streets and both entrance streets to the town (Luis Muñoz Rivera and José de Diego).

The project's scope of work is mainly to rehabilitate deficiencies and maintain the existing footprint of the area, improving the current conditions to increase the life span of the "Poblado." The work will have positive results for local and visitor commuters by providing safe public recreation and promoting tourism for the Municipality of Cabo Rojo.



Figure 1. Location Aerial Photograph

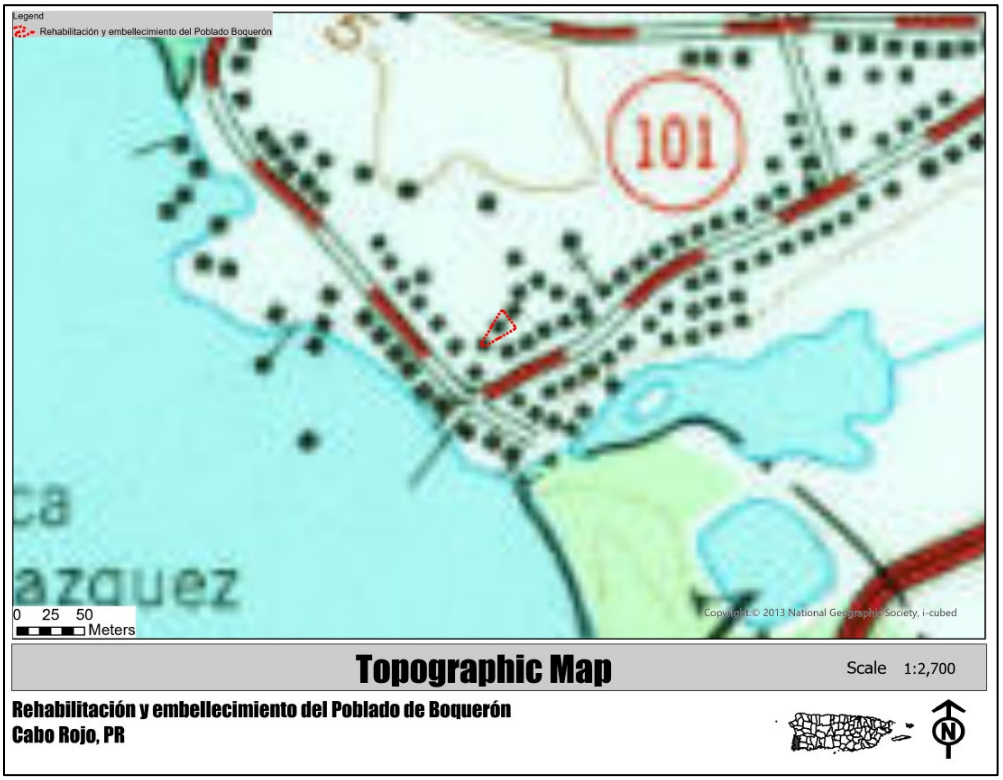

Figure 2. Location Topographic Map

3 Action Area Description

3.1 Geology

The type of geology in the project site is Quartz sand deposits, also known as silica sand deposits. They are geologic formations that contain significant amounts of quartz grains. These deposits are valuable resources due to the widespread use of silica sand in various industries such as glass manufacturing, construction, foundries, ceramics, and electronics (**See Figure 3. Geology**).



Figure 3. Geology

3.2 Soils

Soils in the project area were identified using the U.S. Department of Agriculture (USDA) Natural Resource and Conservation Service (NRCS) Web Soil Survey (accessed March 2023). The project area's soil type is 100% Urban land (Ua) (**See Appendix 2**).

The term urban land refers to soils in areas of high population density in a largely built-up environment. These soils can be significantly changed, human-transported materials, human-altered materials, or "native" soils minimally altered or intact. Soil in urban areas exhibits a wide variety of conditions and properties and may have impervious surfaces, such as buildings and pavements.



Figure 4. Soil types

3.3 Hydrology

The revitalization of the "Poblado de Boquerón" project will not impact any body of water.



Figure 5. Hydrology

3.4 Wetlands

The U.S. Fish and Wildlife Service's National Wetland Inventory does not identify wetlands within the project area (**See Figure 6. Wetlands; Figure 7. Wetland Inventory**).

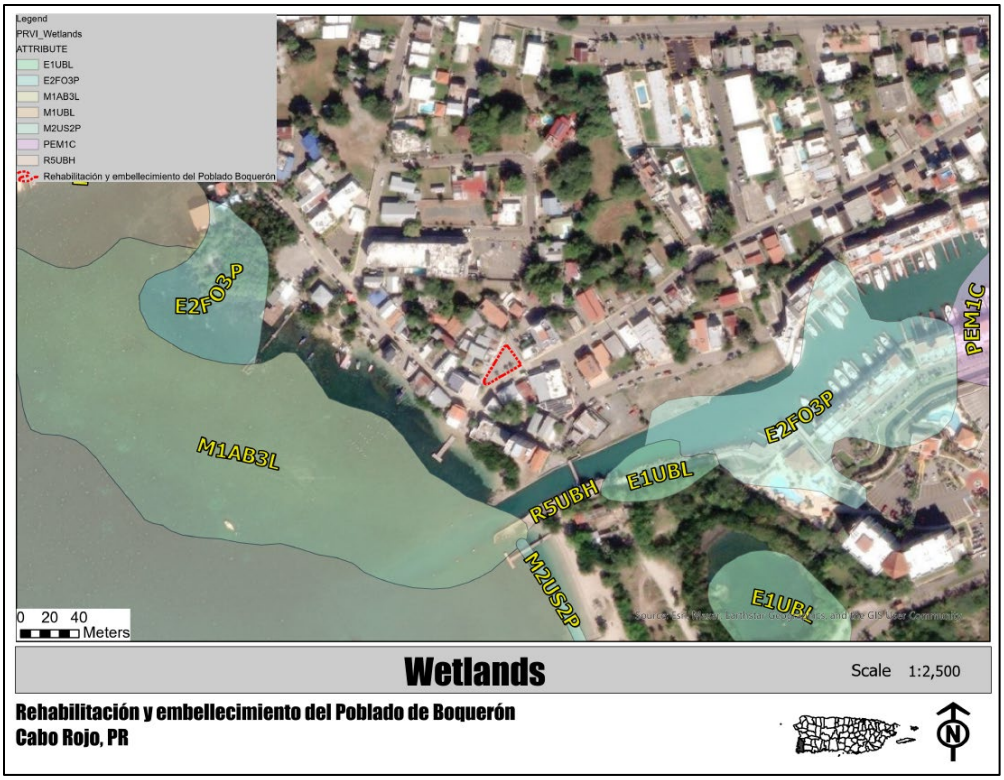

Figure 6. Wetlands

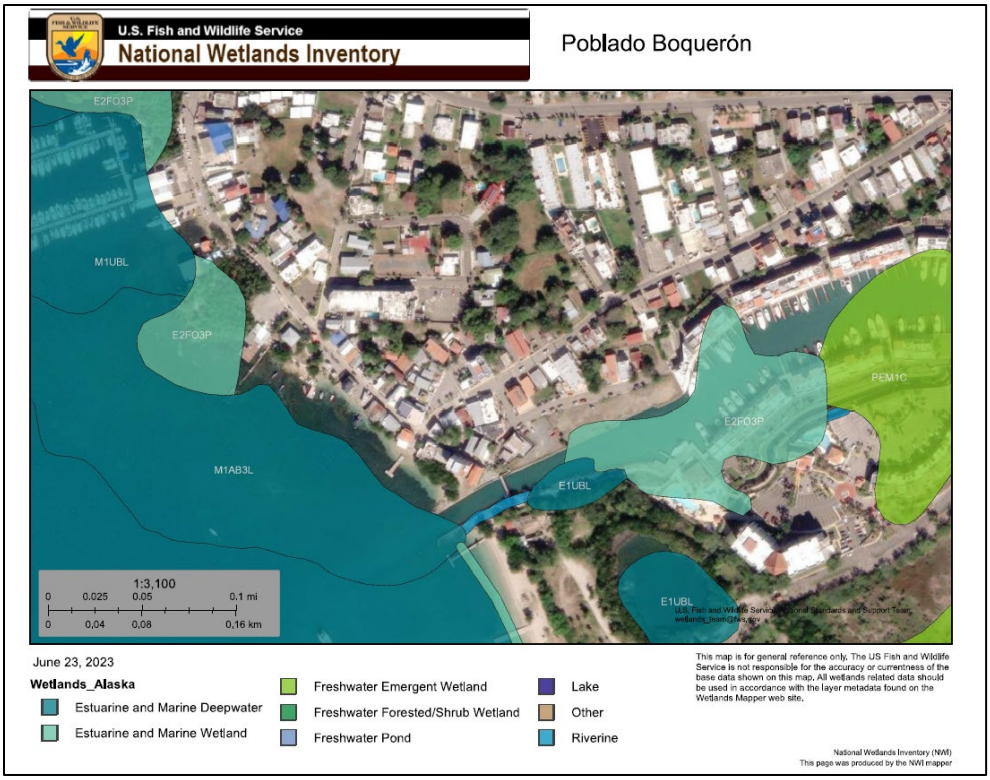

Figure 7. Wetlands Inventory

3.5 *Floodplain*

The project is in flood Zone AE classification, Special Flood Risk Areas. This designation indicates that the area is susceptible to a 1-percent annual chance flood, commonly referred to as the base flood or 100-year flood, as defined by FEMA's National Flood Insurance Program. The map was generated in March 2023.

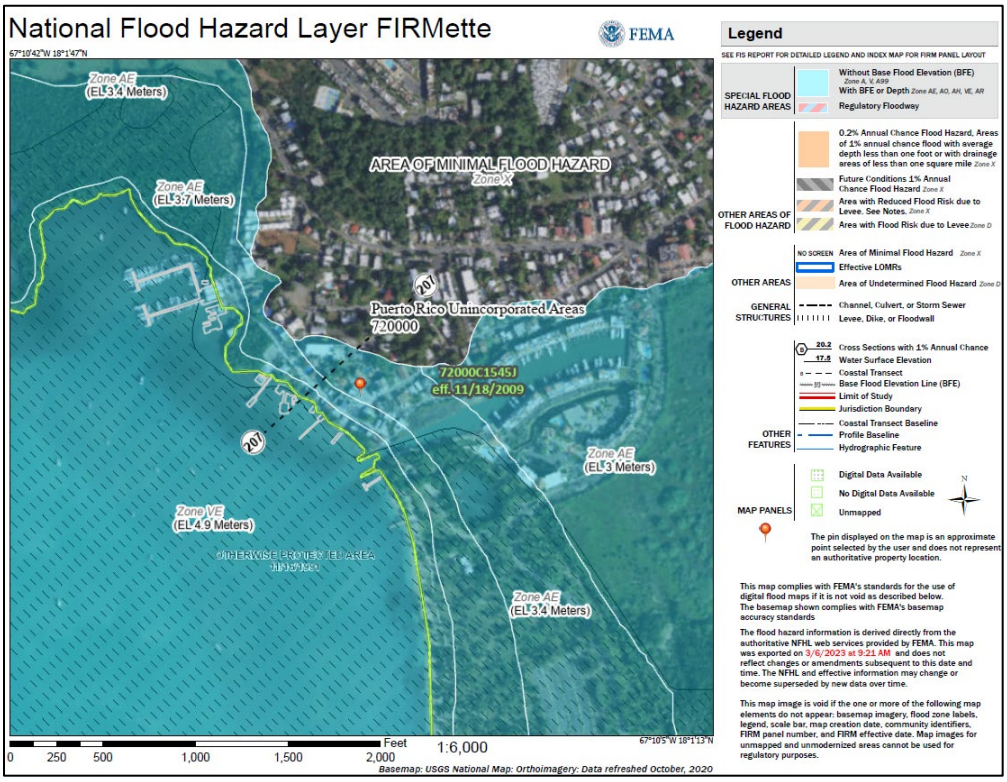

Figure 8. Floodplain

4 Site Biological Conditions

4.1 *Threatened and Endangered Species*

The United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), the General Design Guidelines Combined, and the Species List Caribbean Ecological Services Field Office (**See Appendix 3**) indicate that the following species, federally protected under the Endangered Species Act (ESA) of 1973 may be present within the project area: the endangered Puerto Rican boa (*Chilabothrus inornatus)* and West Indian Manatee (*Trichechus manatus*) with general design guidelines. The species without general design guidelines are Green Sea

Turtle (*Chelonia mydas*), Hawksbill Sea Turtle (*Eretmochelys imbricata*), Leatherback Sea Turtle (*Dermochelys coriacea*), Loggerhead Sea Turtle (*Caretta carretta*), Olive Ridley Sea Turtle (*Lepidochelys olivacea*) and a flowering plant Cobana Negra (*Stahlia monosperma*). However, the species are unlikely to be found in the area due to the project site's history of urban impact, distance from the nesting area, and lack of greenery (**See Appendix 4. Historical Photographs**).

4.2 Epicrates inornatus (PR Boa)

The Puerto Rican boa is the largest snake found in Puerto Rico. An endemic species, it can grow up to seven feet (approx. 2 meters) in length, although some people claim to have seen even larger specimens. Their coloring varies; it can be light or dark brown, gray, or even black. They also have a blackish, spotted, or barred pattern along their dorsal areas, and their ventral area is blackish. The boa is not venomous and does not attack human beings. This boa is timid, and upon detecting human presence nearby, its first and natural reaction is to escape. Although it is generally docile, some adults might try to bite. This conduct, however, only occurs when bothered or when it feels threatened.

4.2.1 Distribution and Habitat

Nearly half of Puerto Rico, 46.3%, is considered potential habitat for the Puerto Rican boa. Of all this potential habitat, only 9% is protected. Although this species has been reported throughout every ecosystem in Puerto Rico, it is most sighted in the karst areas in northern Puerto Rico. They can also be found in the mountainous areas of Puerto Rico and, less frequently, in the dry areas of the south. There is a high probability of finding this species throughout Puerto Rico's municipalities. However, its presence has not yet been documented in all municipalities.

4.2.2 Feeding Biology

Young boas feed on lizards, amphibians, insects, and other small vertebrates. Adult snakes feed primarily on rats but can also consume small birds, lizards, and bats. To hunt bats, boas have been known to hang in wait near cave entrances. Boas use constriction as their preferred method of trapping prey. This means that boas coil their bodies around their prey and constrict or squeeze until the prey is killed by asphyxiation. The boa consumes its prey whole, usually starting with the head. Because their jaws can temporarily dislocate, boas can swallow prey much larger than the width of their bodies. They are considered beneficial species since they help control undesirable animal populations by hunting mice and rats. Occasionally, they might consume small domestic animals, such as poultry and rabbits.

4.2.3 Threats

The Puerto Rican boa faces several threats. Some are natural, but many others are human-related. Here, we provide a short list of the threats this species faces:

- The biggest threat to this species is the destruction and modification of their habitat for touristic, agricultural, and residential purposes. This involves, as a direct consequence, the following actions:
- Soil removal – The machines used to extract and move soil also crush, cut, and kill Puerto Rican boas.
- Habitat fragmentation – Their habitat becomes split into patches. The interaction between individuals and their survival is affected because of this. They become more vulnerable. Habitat fragmentation due to road construction can also prove fatal to boas attempting to cross the roads.
- Natural predators such as the red-tailed hawk (*Buteo jamaicensis*), the broad-winged hawk (*Buteo platypterus brunnecens*), the pearly-eyed thrasher (*Margarops fuscatus*), the red-legged thrush (*Turdus plumbeus*), and the Puerto Rican lizard cuckoo *(Coccyzus vieilloti*).
- Potential exotic predators include feral and domestic cats (*Felis catus*) and the small Asian mongoose (*Herpestes javanicus*).
- Potential parasites such as fleas (*Amblyoma spp., Boophilus spp.*) and mites (*Ornithodorus portorricensis*). These mostly affect individuals inhabiting livestock pasture areas.
- Persecution, harassment, and death caused by humans
- Competition with exotic introduced species (i.e., red-tailed boa [Boa constrictor])

4.2.4 Conservation measures for *Epicrates inornatus* (PR Boa):

1. Inform all personnel about the potential presence of the PR boa and the VI boa in areas where the proposed work will be conducted. Photographs of the PR and VI Boa are to be prominently displayed on the site. The recipient must ensure that project personnel can correctly identify a PR or VI boa.
2. Before any construction activity, including removal of vegetation and earth movement, the boundaries of the project area must be delineated, buffer zones, and areas to be excluded and protected, should be marked in the project plan and in the field to avoid further habitat degradation into forested areas. Once areas are marked, and before any construction activity, including site preparation, project personnel able to correctly identify a PR or VI boas must survey the areas to be cleared to ensure that no boas are present within the

work area. Vehicle and equipment operation must remain on designated access roads/paths and within the rights-of-way.

3. If a PR boa is found within any of the working or construction areas, activities should stop in the area where the boa was found. Do not capture the boa. If boas need to be moved out of harm's way, project personnel designated by the recipient shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: 787-724-5700, 787-230-5550, 787- 771-1124). If immediate relocation is not an option, project-related activities in this area must stop until the boa moves out of harm's way on its own. Activities at other work sites where no boas have been found after surveying the area may continue.

4. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the boa (PRDNER phone #s: 787-724-5700, 787-230-5550, 787-771-1124). If that is not possible, the animal should be left alone until it leaves the vehicle on its own.

5. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Before moving, disposing, or shredding, debris piles should be carefully inspected for the presence of boas. If PR boas are found within debris piles, do not capture the animal, and let it move on its own, or call PRDNER Rangers for safe capture and relocation of the animal. If debris piles are left on site, we recommend they be placed in areas that will not be disturbed in the future.

6. For all boa sightings (dead or alive), personnel designated by the recipient must record the time and date of the sighting and the specific location where the boa was found. Data should also include a photo of the animal dead or alive, site GPS coordinates, and comments on how the animal was detected and its behavior. If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. All boa sighting reports should be sent to the USFWS Caribbean Ecological Services Field Office, Marelisa Rivera - Deputy Field Supervisor, 787-851-7297 extension 206, 787-510-5207, marelisa_rivera@fws.gov.

4.3 *Trichechus manatus* (West Indian Manatee)

The Antillean manatee is a slow-moving aquatic mammal. They range in color from gray to brown. The manatees reach adulthood at about six years of age, and the oldest in captivity reached over 60 years of age. Adult manatees in Puerto Rico measure about 10 feet (approx. 3 meters) in length and weigh between 1,200 to 2,000 pounds (approx. 544 to 907 kilograms). At birth, calves measure over 3 feet (approx. 1 meter) and weigh between 35 and 60 pounds (approx. 15 to 27 kilograms). Puerto Rican manatees are smaller and slenderer than Florida manatees. Sexes are distinguished by the position of the genital openings. Females appear heavier and bulkier than males of the same length. The manatee's body is round, tapering into a spoon or paddle-shaped tail. Their body is covered with sparse hairs, and their snouts with stiff whiskers called vibrissae that give them another sensory tool. Manatees have unique lips that help them gather, grasp and manipulate food and have teeth (molars) that they keep replacing as long as they live. Because they are mammals, they must come up for air. Their nostrils are like little valves located at the tip of the snout above the mouth and can remain tightly closed when they dive underwater. Manatees can remain submerged for 15 to 20 minutes. Manatees have two front flippers with three nails on each. Their scientific name, Trichechus manatus, means three (tri) and nails (chechus).

4.3.1 Distribution and Habitat

In Puerto Rico, manatees are more common along the east and south of Puerto Rico. Surveys show concentrations in several "hot spots" including Ceiba, Vieques Island, Jobos Bay in Salinas, and Boquerón Bay. Other important areas are San Juan Bay, Luquillo, Guayanilla, Lajas, Cabo Rojo, and Mayagüez. Manatees in Puerto Rico are least abundant along the north coast, between Rincón and Dorado. Manatees around Culebra Island have also been reported, although only in a few instances. No records exist from Mona or Desecheo Islands. Sighting records for the USVI are virtually non-existent, with only one significant record of presence in that area. The Antillean Manatee is also present along the coasts of the Greater Antilles, the Gulf of Mexico, the eastern coast of Central America, and further south along the north coast of South America all the way to northeastern Brazil.

Manatees in Puerto Rico inhabit mainly coastal shallow marine areas but will also occur in fresh water. They may be encountered in canals, rivers, estuaries (the mouth of the rivers), and saltwater bays.

4.3.2 Feeding Biology

Manatees are herbivores, feeding primarily on seagrasses and aquatic plants that grow in shallow coastal waters and rivers. The Antillean manatee feeds primarily on three seagrass species in Puerto Rico: paddle grass (*Halodule wrightii*), turtle grass (*Thalassia testudinum*), and manatee grass (*Syringodium filiformis*). Occasional use of mangroves and accidental ingestion of green algae and hydroids has been reported.

4.3.3 Threats

Boat strikes are the primary mode of human-caused manatee deaths in Puerto Rico. The majority of natural deaths happen during or immediately after birth. Stressful environmental conditions, such as hurricanes, may cause calf strandings, which may eventually die without the protection and nourishment their mother provides. Improper use of watercraft also contributes to these strandings. Excessive speeds can result in a fatal strike to the mother or noise stress to the mother and the calf. If the mother dies, the calf will be left alone, and if the mother is frightened and stressed enough, she may leave her calf behind. Increases in commercial and recreational activities along the coast could affect manatee habitat. Construction and expansion of ports and marinas could damage seagrass beds, as well as improper boatmanship, especially in shallow seagrass areas. Contaminated water and discharges make their way into the rivers polluting manatee drinking water and food sources. Human demands for potable water will likely increase, possibly limiting sources of clean drinking water for manatees. In the future, the potential loss of freshwater sources may be the most limiting habitat factor for manatees.

4.3.4 Conservation Measures for *Trichechus manatus* (West Indian Manatee)

1. The West Indian Manatee was designated as an endangered species in 1970. Manatees are protected through a number of Federal and Commonwealth laws that specify that manatees should not be given food or water, touched, or followed. The primary regulations at the Federal level are the Endangered Species Act of 1973, as amended, and the Marine Mammal Protection Act of 1972. Puerto Rico Commonwealth laws include several regulations that provide protection for the Antillean manatee and its habitat, such as the New Wildlife Law of 1999; Regulation No.6766 for the management of vulnerable and endangered species; the Aquatic Safety and Navigational Law of 2000; and Law No. 147 for the protection, conservation, and management of coral reefs in Puerto Rico.
2. Preservation of seagrass beds is essential to ensure the continued existence of the manatee in Puerto Rico. The public is encouraged to follow all boating regulations, avoid damaging seagrass beds with anchors and propeller

scares, and enjoy encounters with these animals from a distance. Likewise, the use of polarized sunglasses during boating of any kind is recommended to avoid collisions since these glasses filter sunlight glare on the water's surface and improve visibility. Keeping solid waste and fishing lines out of rivers and streams can also contribute to manatee conservation.

3. Government agencies, at the state and Federal levels, work with developers to incorporate conservation in development projects to address adverse effects to manatee habitat. The Caribbean Ecological Services Field Office implements a Rescue, Rehabilitation, and Release Program for the Antillean manatee population in Puerto Rico. Manatee strandings in PR are managed by the DNER Marine Mammal Program with the collaboration of the Manatee Conservation Center and the Puerto Rico Zoo.
4. One possible strategy for manatee conservation could be the designation of federal Manatee Protection Areas (MPAs), where speed limit zones and/or havens can be set in certain important manatee areas. MPAs in Puerto Rico are still in the planning stage, and studies are underway to better understand manatee coastal habitats and will identify the most suitable regions of the island for the species. The DNER also has a manatee conservation and protection plan that establishes boat slow speed zones within important manatee areas in Puerto Rico.
5. Other strategies used to minimize threats to manatees include no wake areas, marked navigation channels, boat exclusion areas, and standard construction conditions for marinas and boat ramps. Regulatory speed buoys can help boaters identify navigable waterways and remind them of speed zone regulations to avoid or minimize collisions with manatees.

4.4 Chelonia mydas (Green Sea Turtle)

The green sea turtle is a marine species. It is the biggest of the hard-shelled sea turtles. It has a pair of prefrontal scales on its head, and its jaw is serrated. This turtle also has claws on the front flippers. Adult turtles can measure up to 39 inches (1 meter) long and weigh approximately 350 pounds (159 kilograms).

An adult specimen's carapace is light brown with irregular, dark splotches; it is smooth and uniform and does not have overlapping scutes like its close relative, the hawksbill sea turtle. The ventral area is whitish- yellow, and its head is relatively small and of a light brown color with yellow spots. Hatchlings are about 2 inches (50 millimeters) long and weigh approximately 0.05 pounds (25 grams). Juveniles have a black carapace and a whitish plastron (ventral area), along with the edge of the carapace and the flippers. The common name of this sea turtle species does not relate to the color of the carapace but rather to the color of their body fat.

4.4.1 Distribution and Habitat

This species is widely distributed, inhabiting both tropical and temperate zones. There is awareness of three subpopulations in the Atlantic, Pacific, and Indian Oceans. Under the United States's jurisdiction, green sea turtle nesting sites have been identified in Puerto Rico, the US Virgin Islands, and on the continental US, from Texas to Massachusetts. In Puerto Rico, however, green sea turtle populations are small. On Florida's east coast, on the other hand, populations are much larger.

Green sea turtles use three types of habitats: beaches, high seas (pelagic convergence areas), and coastal foraging sites. This sea turtle is mostly found in shallow waters near reefs, bays, inlets, and seagrass meadows. Peaceful beaches with gentle inclines are their preferred nesting beaches.

4.4.2 Feeding Biology

Green sea turtle feeding habits change as the turtle grows through its life stages. This species is mostly omnivorous, feeding on both animal and plant matter during the juvenile stage. When it becomes an adult, it becomes mostly herbivorous (feeding mostly on plant matter). Its jaws are specially adapted for a vegetarian diet, consuming seagrass and algae.

4.4.3 Threats

Some of the factors contributing to the reduction in the amount of green sea turtles include excessive poaching for their meat, egg harvesting, nest depredation, loss and modification of nesting and feeding habitats due to coastal developments, and death from becoming entangled in fishing nets or being struck by boats. Like all other sea turtles worldwide, the green sea turtle is negatively impacted by coastal erosion, artificial lighting (which disorients hatchlings and leads them away from the sea), and pollutants and solid wastes that reach the sea due to human action.

4.4.4 Conservation Measures for *Chelonia mydas* (Green Sea Turtle)

The green sea turtle is protected by federal and state law. The species was listed under the Endangered Species Act in 1978. In 1998, the National Oceanic and Atmospheric Administration (NOAA) designated several areas as critical habitats for the green sea turtle. These critical areas surround the Culebra Island municipality and include the waters around the neighboring cays. The critical areas are measured from the high tide line to three nautical miles (5.6 kilometers) into the sea.

To aid in the recovery of the species, the Department of Natural and Environmental Resources (DNER) of Puerto Rico, the United States Fish and Wildlife Service, private associations, and citizens and volunteers have taken upon themselves the task of patrolling the beaches during nesting season.

The Endangered Species Act of 1973, as amended, prohibits the killing, harassing, trapping, purchasing, or selling any species, as well as parts and products derived from the species.

4.5 Eretmochelys imbricata (Hawksbill Sea Turtle)

The hawksbill sea turtle is one of the four sea turtles that visit our tropical waters. It can grow to a length of 3 feet (approx. 1 meter) and weigh 300 pounds (136 kilograms). Its shell is oval-shaped and elongated, and it is the most beautiful of sea turtle shells. The shell is made up of brown and yellow scutes, or plates, which overlap each other like roof tiles; that is to say, imbricate. Its head and flippers are yellow with brown spots. The hawksbill sea turtle is the only sea turtle that has two pairs of prefrontal scales between the eyes, and their upper jaw is sharp like a hawk's. Like all other sea turtles, this turtle cannot hide its head or extremities under its shell.

4.5.1 Distribution and Habitat

This sea turtle is widely distributed across the world's tropical waters, especially those near coral reefs and rocky formations along the shoreline. In Puerto Rico, this turtle species nests on the beaches of Guánica, Añasco, Rincón, Isabela, Arecibo, Barceloneta, Dorado, Humacao, Patillas, Yabucoa, Culebra, Vieques, Isla de Mona, and Caja de Muertos Island.

The hawksbill is usually found in rocky areas, coral reefs, and shallow coasts (less than 65 feet [approx. 20 meters] deep). Females dig their nests under beachside vegetation, unlike other sea turtles, which prefer to make their nests in bare areas in the sand.

4.5.2 Feeding Biology

The hawksbill sea turtle lives near coral reefs, where it feeds primarily on sea sponges, algae, sea urchins, mollusks, shrimp, and squid.

4.5.3 Threats

Adult sea turtles have few natural predators. A natural predator for the species could be a large shark. Newly hatched sea turtles, however, have many predators: dogs, sea birds, crabs, fish, and other animals that feed on the hatchlings.

The Hawksbill is an endangered species due to their being captured as contraband and slaughtered for their beautiful shells, which are then illegally exported as raw material for jewelry- making purposes. Other threats include the consumption of their eggs and flesh and, occasionally, the use of their skin. The continuous development, modification, and illumination of beaches and places near their nesting areas keep the turtles from using the beach to their advantage during their nesting season. The bright lighting on the beach at night can disorient females who are out to lay eggs and can lead the hatchlings away from the sea and cause their deaths before they ever even reach the sea for the first time.

4.5.4 Conservation Measures for *Eretmochelys imbricata* (Hawksbill Sea Turtle)

The hawksbill sea turtle is protected by federal and state law, as are all other sea turtle species. The hawksbill was listed under the Endangered Species Act in 1970.

The beach areas in Mona and the Resaca, Brava, and Larga beaches in the Culebra municipality, along with the adjacent cays (the beaches in Culebrita and the beaches on the south of Cayo Norte), were designated critical habits for the species as well. The habitat designation made by USFWS goes from the average high-tide mark to 150 meters inland. The National Oceanic and Atmospheric Administration (NOAA) has also designated the waters around Mona and Monito islands as critical habitat.

The Endangered Species Act of 1973, as amended, prohibits the killing, harassing, trapping, purchasing, or selling any species, as well as parts and products derived from the species. However, there are still people who illegally harvest the eggs, kill the females when they come ashore to lay their eggs, and capture them while in the sea using nets, slaughtering them for their meat and shell. Although these clandestine activities are hard to detect and control, there has been a governmental unification, and efforts have been made to arrest, prosecute and fine these poachers. Citizen education regarding the importance of observing the law and preserving the species that make up our natural heritage is vital for sea turtle protection and recovery.

To aid in the recovery of the species, the Department of Natural and Environmental Resources (DNER) of Puerto Rico, the United States Fish and Wildlife Service, private associations, and citizens and volunteers have taken upon themselves the task of patrolling the beaches during nesting season. In this manner, they prevent the illegal capture and slaughter of nesting females as well as egg harvesting.

4.6 Dermochelys coriacea (Leatherback Sea Turtle)

The leatherback is the largest sea turtle species in the world. It can grow between 4 (1.2 meters) to 8 feet (2.4 meters) long and weigh between 500 to 2,000 pounds (227 to 907 kilograms). It differs from other sea turtles in that it is the only one with a soft or flexible carapace. The surface of the leatherback's carapace, or back shell, is composed of leathery skin; it has no plates or scutes. Its body is black or dark gray with small, pale, whitish spots. Its carapace has seven ridges that cross lengthwise. The carapace is wider at the front and narrow at the back. The leatherback's front flippers lack claws. This turtle's mandibles are softer than other turtles,' which is why the leatherback usually feeds on soft organisms.

4.6.1 Distribution and Habitat

The leatherback sea turtle has the widest area of distribution among sea turtles. It can be found throughout the entire world, in waters both tropical and temperate. It is distributed throughout the Atlantic, Indian, and Pacific Oceans. Turtles have been found as far north as the coast of British Columbia and the British Isles and as far south as Australia, the Cape of Good Hope (South Africa), and Argentina.

In the Atlantic, the leatherback nests on beaches in Florida (US), St. Croix (USVI), and Puerto Rico. It also nests in Costa Rica, Panama, Colombia, Trinidad and Tobago, Guyana, Surinam, French Guiana, and southern Brazil. In Puerto Rico, leatherbacks prefer the sandy beaches on the west, north, and east shores of the island, with the shores seeing most of the nesting activity being the beaches of Fajardo, Maunabo, and the island municipalities of Vieques and Culebra. Furthermore, nesting activity has been reported in Yabucoa, Guánica, Isla de Mona, Mayagüez, Añasco, Rincón, Aguada, Aguadilla, Isabela, Hatillo, Arecibo, Barceloneta, Manatí, Vega Baja, Dorado, Toa Baja, Condado, Isla Verde and Loíza (Piñones).

This sea turtle is a pelagic species; that is to say, it spends the majority of its life in the open seas. The leatherback is the sea turtle with the largest migration. Its hydrodynamic carapace and big front flippers allow it to travel vast distances. Leatherbacks can dive for more than 1,000 feet (305 meters) deep on average and have been observed diving at a depth of over 3,900 feet (1,189 meters).

4.6.2 Feeding Biology

As mentioned above, the leatherback's mandibles are more delicate than other sea turtle species and could get hurt if they attempt to eat hard foods. The leatherback feeds primarily on jellyfish, along with tunicates and other soft-bodied organisms. It also consumes a type of jellyfish most other animals try to avoid: the siphonophores, the most famous of which is the Portuguese Man o' War.

4.6.3 Threats

In Puerto Rico, nesting areas have decreased due to the continuous development of beaches and coastal areas, primarily the construction of residential projects, touristic destinations, and industrial areas, as well as urban sprawl. On the other hand, light pollution on the beaches disorients the females that have come out of the sea to lay their eggs, as well as the hatchlings who are trying to reach the sea for the first time. Adult sea turtles have few natural predators. A natural predator for a full-grown leatherback might be large sharks.

However, hatchlings and juvenile sea turtles are prey for feral dogs and cats, marine birds, crabs, fish, and other predators. Nesting area vandalism, egg theft, and slaughtering of female turtles when they come out to lay eggs are other great threats this species faces. Leatherbacks are also specifically vulnerable to the presence of plastics in the sea; they can easily confuse a plastic bag with a jellyfish and consume the plastic.

4.6.4 Conservation Measures for *Dermochelys coriacea* (Leatherback Sea Turtle)

The leatherback sea turtle is protected by federal and state law, as are all other sea turtle species. The leatherback was listed under the Endangered Species Act in 1970. Furthermore, an area in southwest St. Croix was designated as a critical habitat for the species in 1978.

The Endangered Species Act of 1973, as amended, prohibits the killing, harassing, trapping, purchasing, or selling any species, as well as parts and products derived from the species. Although these clandestine activities are hard to detect and control, there has been governmental unification, and efforts have been made to arrest, prosecute and fine these poachers. Citizen education regarding the importance of observing the law and preserving the species that make up our natural heritage is vital for sea turtle protection and recovery.

To aid in the recovery of the species, the Puerto Rico Department of Natural and Environmental Resources (PRDNER), the United States Fish and Wildlife Service, private associations, and citizens and volunteers have taken upon themselves the task of patrolling the beaches during nesting season. In this manner, they prevent the illegal capture and slaughter of nesting females as well as egg harvesting.

4.7 *Caretta carretta* (Loggerhead Sea Turtle)

The loggerhead sea turtle is an unfamiliar sea turtle species in Puerto Rico. Adult turtles can reach a length of approximately 3 feet (1 meter) long and an average weight of 200 pounds (91 kilograms). It is characterized by its large head. Its rather peculiar beak is made up of two solid, curved mandibles. The carapace, or shell, is notably longer than it is wide and is formed of callous scutes (plates), distinguishing it from the hawksbill sea turtle. The adult loggerheads are usually of a brownish red color, and young turtles have dark lines.

4.7.1 Distribution and Habitat

This species is widely distributed and can be found in temperate, subtropical waters around the Atlantic Ocean, the Mediterranean Sea, the Black Sea, and the Pacific and Indian Oceans. The beaches with the most nests are found in Australia, the Sultanate of Oman in Asia, and the southeast US. There are no known nesting sites in Puerto Rico or the US Virgin Islands. As a matter of fact, the only sightings of the loggerhead sea turtle in Puerto Rico have been limited to the waters northeast and southeast of the Island.

Loggerheads can be found hundreds of miles into the open sea, as well as in bays, lagoons, navigation canals, coral reefs, rocky areas, and shipwrecks.

4.7.2 Feeding Biology

These turtles are primarily carnivorous. Their diet includes crabs and other crustaceans, echinoderms, gastropods, and fish.

4.7.3 Threats

Some of the factors contributing to the reduction in the amount of loggerhead sea turtles include beach erosion, coastal developments, artificial lighting, recreation-related disturbances (such as driving on the beach and boat collisions), the introduction of exotic vegetation, nest depredations, slaughter, pollution (such as oil spills), dredging, use of fishing nets, becoming trapped in energy facilities, ingestion of garbage found in the sea, and naturally-occurring diseases.

4.7.4 Conservation Measures for *Caretta carretta* (Loggerhead Sea Turtle)

The loggerhead sea turtle is protected by federal and state law, as are all other sea turtle species. The loggerhead was listed under the Endangered Species Act in 1978.

The Endangered Species Act of 1973, as amended, prohibits the killing, harassing, trapping, purchasing, or selling any species, as well as parts and products derived from the species.

*4.8 Lepidochelys olivacea (*Olive Ridley Sea Turtle*)*

The olive ridley was named for the olive color of its heart-shaped shell and is one of the smallest of sea turtles, with adults reaching 2 to 2.5 feet in length and weighing 80 to 110 pounds. The species may be identified by the uniquely high and variable numbers of vertebral and costal scutes. Although some individuals have only five pairs of costal, in nearly all cases, some division of costal scutes occurs so that as many as six to nine pairs may be present. In addition, the vertebral scutes also show frequent division, as do the scales on the dorsal surface of the head. The prefrontal scales, however, typically number two pairs. Existing reports suggest that the olive ridley's diet includes crabs, shrimp, rock lobsters, jellyfish, and tunicates. In some parts of the world, algae have been reported as its principal food.

4.8.1 Population Status

Olive ridley turtles are found worldwide and listed under the Endangered Species Act. Their breeding colony populations on the Pacific Coast of Mexico are listed as endangered; all others are listed as threatened. According to the International Union for Conservation of Nature and Natural Resources Red List, there has been between a 30 to 50 percent reduction in global population size. Although some nesting populations have increased in the past few years or are currently stable, the overall reduction in some populations is greater than the overall increase in others.

In the western Atlantic Ocean, although there has been an 80 percent reduction in certain nesting populations since 1967, Brazil has seen an increase in its nesting population. In the eastern Atlantic Ocean, Gabon currently hosts the largest olive ridley nesting population in the region, with 1,000 to 5,000 breeding females per year.

In the Pacific, large nesting populations occur in Mexico and Costa Rica. A single arribada nesting beach remains in La Escobilla, Mexico, where an estimated 450,000 turtles' nest, and the Pacific coast of Costa Rica supports an estimated 600,000 nesting olive ridleys between its two major arribada beaches, Nancite and Ostional.

In the Indian Ocean, three arribada beaches occur in Odisha, India (Gahirmatha, Devi River mouth, and Rushikulya), with an estimated +100,000 nests per year. More recently, a new mass nesting site was discovered in the Andaman Islands, India, with more than 5,000 nests reported in a season. Declines in solitary nesting of olive ridleys have been recorded in Bangladesh, Myanmar, Malaysia, and Pakistan. In particular, the number of nests in Terengganu, Malaysia, has declined from thousands of nests to just a few dozen per year.

The 2014 5-year review of the olive ridley sea turtle provides additional information on abundance and population trends for this species.

4.8.2 Behavior and Diet

Olive ridley turtles, like all sea turtles, are marine reptiles and must come to the surface to breathe. Adult female sea turtles return to land to lay their eggs in the sand—they are remarkable navigators and usually return to a beach in the general area where they hatched.

Arribada nesting is a behavior found only in the genus *Lepidochelys* which includes the Kemp's ridley and olive ridley sea turtles. Although other turtles have been documented nesting in groups, no other turtles (marine or land) have been observed nesting in such mass numbers and synchrony. Solitary nesting occurs extensively throughout this species' range, and nesting has been documented in approximately 40 countries worldwide. Arribada nesting, however, occurs on only a few beaches worldwide.

Olive ridleys often migrate great distances between feeding and breeding grounds. Using satellite tags, scientists have documented both male and female olive ridleys leaving the breeding and nesting grounds off the Pacific coast of Costa Rica and migrating out to the deep waters of the Pacific Ocean.

The olive ridley is omnivorous, meaning it feeds on a wide variety of food items, including algae, lobster, crabs, tunicates, and mollusks. Olive ridleys can dive to depths of 500 feet to forage on benthic invertebrates (those that live on the bottom).

4.8.3 Threats

Bycatch in Fishing Gear

A primary threat to sea turtles is their unintended capture in fishing gear which can result in drowning or cause injuries that lead to death or debilitation (for example, swallowing hooks or flipper entanglement). The term for this unintended capture is bycatch. Sea turtle bycatch is a worldwide problem. The primary types of gear that result in olive ridley bycatch include trawls, longlines, gillnets, and purse seines.

Direct Harvest of Turtles and Eggs

The principal cause of the worldwide decline of the olive ridley sea turtle was long-term collection of eggs and mass killing of adult females on nesting beaches. The arribada nesting behavior concentrates females and nests at the same

time and in the same place, enabling the taking of an extraordinary number of eggs for human consumption. Historically, egg collection for human consumption was a significant problem, but this threat has been diminished in some countries with bans on the killing of turtles and the collection of eggs.

Loss and Degradation of Nesting Habitat

Coastal development and rising seas from climate change are leading to the loss of nesting beach habitats for olive ridley turtles. Shoreline hardening or armoring (e.g., seawalls) can result in the complete loss of dry sand suitable for successful nesting. Artificial lighting on and near nesting beaches can deter nesting females from coming ashore to nest and can disorient hatchlings trying to find the sea after emerging from their nests.

Predation of Eggs and Hatchlings

The destruction and consumption of eggs and hatchlings by non-native and native predators (particularly feral pigs, coyotes, coatis, birds, and crabs) is a threat to olive ridley sea turtles.

Vessel Strikes

Vessel strikes are a threat to sea turtles near ports and waterways along developed coastlines throughout their range. Various types of watercrafts can strike sea turtles when they are at or near the surface, resulting in injury or death. High boats traffic areas such as marinas and inlets present a higher risk. Adult sea turtles, in particular nesting females, are more susceptible to vessel strikes when making reproductive migrations and while they are nearshore during the nesting season.

Ocean Pollution/Marine Debris

Increasing pollution of nearshore and offshore marine habitats threatens all sea turtles and degrades their habitats. Olive ridley turtles may ingest marine debris such as fishing lines, balloons, plastic bags, floating tar or oil, and other materials discarded by humans, which they can mistake for food. They may also become entangled in marine debris, including lost or discarded fishing gear, and can be killed or seriously injured.

Climate Change

For all sea turtles, a warming climate is likely to result in changes in beach morphology and higher sand temperatures, which can be lethal to eggs or alter the ratio of male and female hatchlings produced. Rising seas and storm events cause beach erosion, which may flood nests or wash them away. Changes in the temperature of the marine

environment are likely to alter the abundance and distribution of food resources, leading to a shift in the migratory and foraging range and nesting season of olive ridley.

4.8.4 Conservation Measures for *Lepidochelys olivacea (*Olive Ridley Sea Turtle*)*

Since 1977, NOAA Fisheries and the U.S. Fish and Wildlife Service have shared jurisdiction of sea turtles listed under the ESA. A Memorandum of Understanding outlines our specific roles: NOAA Fisheries leads the conservation and recovery of sea turtles in the marine environment, and the U.S. FWS leads conservation and recovery efforts for sea turtles nesting beaches.

We are committed to the protection and conservation of olive ridley turtles by:

- Working with partners to ensure compliance with national, state, and U.S. territory laws to protect sea turtles.
- Cooperating with international partners to implement conservation measures and establish agreements, such as international treaties that protect sea turtles.
- Researching, developing, and implementing changes to fishing gear practices and/or fishing gear modifications (e.g., turtle excluder devices), using large circle hooks in longline fisheries, and implementing spatial or temporal closures to avoid or minimize bycatch.
- Protecting and monitoring olive ridley turtles in the marine environment and on nesting beaches.
- Conducting research on threats and developing conservation measures that reduce threats and promote recovery.
- Collecting information on the species biology and ecology to better inform conservation management strategies and to assess progress toward recovery.
- Conducting and supporting education and outreach efforts to the general public by raising awareness on threats to sea turtles, highlighting the importance of sea turtle conservation, and sharing ways people can help sea turtles.
- Working with partners to study and raise awareness about illegal sea turtle trade.

*4.9 Stahlia monosperma (*Cóbana negra*)*

A rare tree in southern, western, and northeastern Puerto Rico at low elevations. Major geographic regions following Axelrod (2011): Southern Coastal Limestone (Sabana Grande), Southwestern Coastal Lowlands, Western Cordillera (Susúa State Forest), Northern Coastal Lowlands (Río Grande). Botanically unique 28reas following Axelrod (2011): Sierra Bermeja.

4.9.1 Conservation Notes

This was first listed as a rare species in Puerto Rico by Woodbury et al. (1975), who classified it as an endangered species not endemic to Puerto Rico (species No. 175), and it was listed as Threatened by the U.S. Fish and Wildlife Service in 1990 under the Endangered Species Act. It was listed as a Critical Element by DNER in 1988, 1999 (as imperiled), and 2007. It was included as a species of global conservation concern by the Center for Plant Conservation (1992), which ranked it as a priority B species (a tax at risk of global extinction within 10 years). It was included as a species known from three or fewer locations in Puerto Rico and the Virgin Islands by Figueroa Colon & Woodbury (1996) but not as a species known from a single locality by Figueroa Colon (1996). Miller et al. (2012b) gave it a provisional global rank of Critically Endangered using the IUCN Red List criteria based on one location. Miller et al. (2012b) gave it a provisional global rank of Endangered using the IUCN Red List criteria based on five locations and a documented decline (C2a).

5 Proposed action effect on federally listed species or their designated habitat

The proposed action activities may temporally affect the natural behavior of the endangered species if they come close to the construction area. Construction noise would create a temporary and intermittent impact; however, no area would be exposed to construction noise for a long-term duration, therefore, extended disruption of normal activities is not anticipated.

6 Impact Avoidance and Minimization

The project includes a comprehensive environmental protection plan that provides for erosion control, spill response and mitigation procedures, spill prevention and control plan, dirt and dust control, protection of natural resources, and waste handling, amongst other controls.

During the project activities, the USFWS General Project Design Guidelines for conservation measures for the Puerto Rican Boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) and West Indian Manatee (*Trichechus manatus*) will also be implemented (**Appendix 3**). The species without general design guidelines are Green Sea Turtle (*Chelonia mydas*), Hawksbill Sea Turtle (*Eretmochelys imbricata*), Leatherback Sea Turtle (*Dermochelys coriacea*), Loggerhead Sea Turtle (*Caretta carretta*), Olive Ridley Sea Turtle (*Lepidochelys olivacea*) and a flowering plant Cobana Negra (*Stahlia monosperma*). Conservation and preservation measures will be established to protect the species without general design guidelines; if necessary, a biologist will be present during the project activities.

7 Determination of Effect

Based on the available project description, endangered species information, recovery plans, and the Consistency Letter generated by the USFWS on June 3rd, 2023 (**Appendix 5.**), we can determine that the activity as planned will have the following effect on the listed species and its habitat:

- No critical habitats exist for the reference species within the project area.
- Puerto Rican Boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*)

  No effect
- Hawksbill Sea Turtle (*Eretmochelys imbricata*)

  Not likely to adversely affect.
- Leatherback Sea Turtle (*Dermochelys coriacea*)

  Not likely to adversely affect.
- Loggerhead Sea Turtle (*Caretta carretta*)

  Not likely to adversely affect.
- West Indian Manatee (*Trichechus manatus*)

  Not likely to adversely affect. (Not covered by Consistency Letter).
- Green Sea Turtle (*Chelonia mydas)*

  Not likely to adversely affect. (Not covered by Consistency Letter).
- Olive Ridley Sea Turtle (*Lepidochelys olivacea*)

  Not likely to adversely affect. (Not covered by Consistency Letter).
- Cobana Negra (*Stahlia monosperma*)

  Not likely to adversely affect. (Not covered by Consistency Letter).

8 List of Appendixes

Appendix 1. Proposed Public Lighting Distribution Plan

Appendix 2. USDA Web Soil Survey

Appendix 3. IPaC Resource List United States Fish and Wildlife Service (USFWS) Information, General Project Design Guidelines and Species List_ Caribbean Ecological Services Field Office

Appendix 4. Historical Photographs

Appendix 5. NLAA Consistency Letter_ Caribbean ES Field Office Determination Key for Puerto Rico and the U.S. Virgin Islands. June 23, 2023.

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10 References

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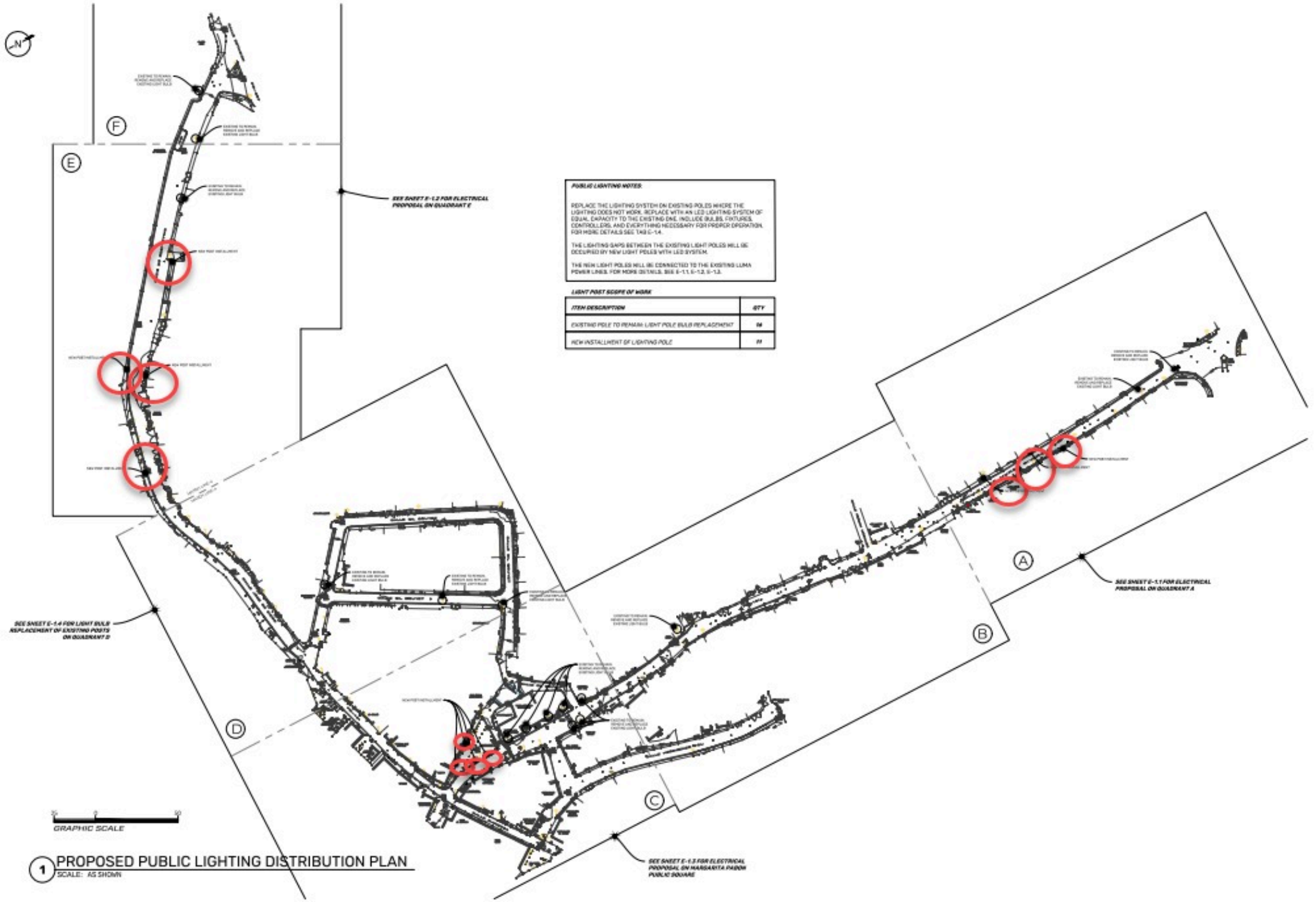
Appendixes

Appendix 1. Proposed Public Lighting Distribution Plan



PUBLIC LIGHTING NOTES

REPLACE THE LIGHTING SYSTEM ON EXISTING POLES WHERE THE LIGHTING DOES NOT WORK. REPLACE WITH AN LED LIGHTING SYSTEM OF EQUAL CAPACITY TO THE EXISTING ONE. INCLUDE BULBS, FIXTURES, CONTROLLERS, AND EVERYTHING NECESSARY FOR PROPER OPERATION. FOR MORE DETAILS SEE TAB E-1.4.

THE LIGHTING GAPS BETWEEN THE EXISTING LIGHT POLES WILL BE OCCUPIED BY NEW LIGHT POLES WITH LED SYSTEM.

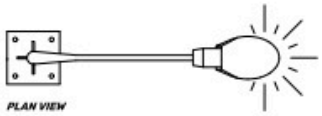
THE NEW LIGHT POLES WILL BE CONNECTED TO THE EXISTING LUMA POWER LINES. FOR MORE DETAILS, SEE E-1.1, E-1.2, E-1.3.

LIGHT POST SCOPE OF WORK

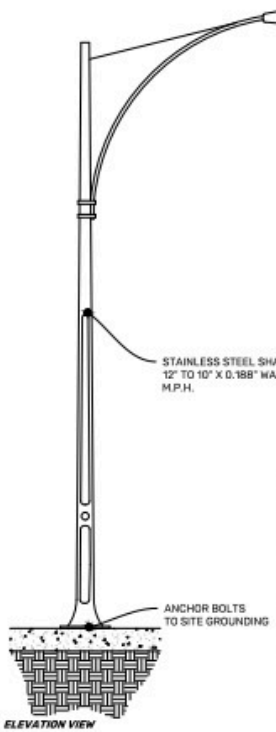
ITEM DESCRIPTION	QTY
EXISTING POLE TO REMAIN: LIGHT POLE BULB REPLACEMENT	14
NEW INSTALLMENT OF LIGHTING POLE	11

1 PROPOSED PUBLIC LIGHTING DISTRIBUTION PLAN
SCALE: AS SHOWN

PROPOSED LUMINARIE SCHEDULE		
DESIG	DESCRIPTION	LAMPS
LP-1	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO LED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS
LP-2	NEW PROPOSED LIGHT POST WITH LED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS
LP-3	NEW PROPOSED LIGHT POST - POST TOP - FITTER FOR 3" POST OR PEDESTAL MOUNTED - OUTDOOR DARK SKY COMPLIANT AND UL SAFETY LISTED FOR USE IN WET LOCATIONS (CCSAUS WET LOCATION LISTED)100-WATT MAX	MEDIUM BASE BULB, OR LED EQUIVALENT WITH E26 BASE PORCELAIN SOCKET.
SP-1	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 240 V	OPTICAL COVER/LENS TYPE ALUMINUM AND POLYCARBONATE LUMINAIRE LIGHT BEAM SPREAD 12"



PLAN VIEW



ELEVATION VIEW

12" TO 10" X 0.88 WALL 175 M.P.H. STAINLESS STEEL CONSTRUCTION POST WITH ANCHORED STREET LAMP.

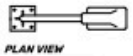
OUTDOOR DARK SKY COMPLIANT AND UL SAFETY LISTED FOR USE IN WET LOCATIONS (CCSAUS WET LOCATION LISTED)

LED LIGHT BULB
300-700 LUMEN
4000 K COLOR TEMP.
CRI 70
220 TO 240 V
HOUSING MATERIAL: ALUMINUM DIE CAST
REFLECTOR MATERIAL: POLYCARBONATE
OPTIC MATERIAL: POLYMETHYL METHACRYLATE
OPTICAL COVER/LENS MATERIAL: GLASS
FIXATION: MATERIAL ALUMINUM

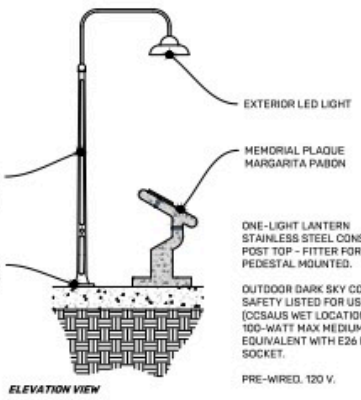
1 LP-2 PROPOSED LIGHT POST
SCALE: NOT TO SCALE

LIGHT POST SCOPE OF WORK

ITEM DESCRIPTION	*QTY*
EXISTING POLE TO REMAIN: LIGHT POLE BULB REPLACEMENT	*16*
NEW INSTALLMENT OF LIGHT POLE CONNECTED TO LUMA ELECTRICAL LINES	*11*



PLAN VIEW



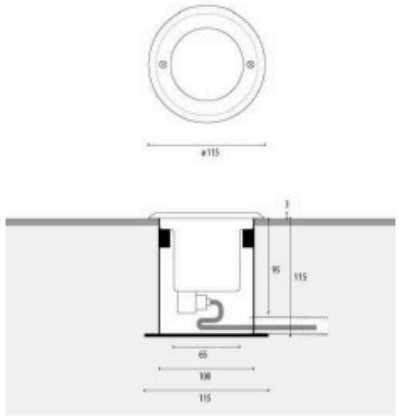
ELEVATION VIEW

ONE-LIGHT LANTERN
STAINLESS STEEL CONSTRUCTION
POST TOP - FITTER FOR 3" POST OR PEDESTAL MOUNTED.

OUTDOOR DARK SKY COMPLIANT AND UL SAFETY LISTED FOR USE IN WET LOCATIONS (CCSAUS WET LOCATION LISTED)
100-WATT MAX MEDIUM BASE BULB, OR LED EQUIVALENT WITH E26 BASE PORCELAIN SOCKET.

PRE-WIRED, 120 V.

2 LP-3 ACCENT LIGHT POST
SCALE: NOT TO SCALE



LED RECESSED FLOOR SPOT LIGHT
LUMINOUS FLUX 2,000 LUMEN
CORRELATED COLOR TEMPERATURE (NOM) 3000 K
LUMINOUS EFFICACY (RATED) (NOM) 100 LM/W
COLOR RENDERING INDEX (CRI) >80
BEAM ANGLE OF LIGHT SOURCE 12 DEGREE(S)
LIGHT SOURCE COLOR B30 WARM WHITE
OPTIC TYPE BEAM ANGLE 12 TO 36°
OPTICAL COVER/LENS TYPE ALUMINUM AND POLYCARBONATE
LUMINAIRE LIGHT BEAM SPREAD 12°

INPUT VOLTAGE: 240 V

HOUSING MATERIAL: ALUMINUM ALLOY
OPTIC MATERIAL: ALUMINUM AND POLYCARBONATE
OPTICAL COVER/LENS MATERIAL: POLYCARBONATE
MOUNTING DEVICE: MOUNTING BRACKET ADJUSTABLE
OVERALL HEIGHT 113 MM

3 SL-1 RECESSED FLOOR SPOT LIGHT
SCALE: NOT TO SCALE

Appendix 2: USDA Web Soil Survey

Soil Map—San German Area, Southwestern Puerto Rico
(Rehabilitación y embellecimiento del Poblado Boquerón)



Map Scale: 1:720 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 10 20 40 60

Feet
0 35 70 140 210

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: San German Area, Southwestern Puerto Rico
Survey Area Data: Version 14, Sep 13, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ua	Urban land	0.1	100.0%
Totals for Area of Interest		**0.1**	**100.0%**

Appendix 3. IPaC Resource List United States Fish and Wildlife Service (USFWS) Information, General Project Design Guidelines and Species List_ Caribbean Ecological Services Field Office

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

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Location

Cabo Rojo County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

(787) 834-1600
(787) 851-7440
CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I
State Road #2 Km 156.5, Suite 303}
Mayaguez, PR 00680

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Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

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2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
West Indian Manatee *Trichechus manatus* Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/4469	Threatened Marine mammal

Reptiles

NAME	STATUS
Green Sea Turtle *Chelonia mydas* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6199	Threatened
Hawksbill Sea Turtle *Eretmochelys imbricata* Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/3656	Endangered
Leatherback Sea Turtle *Dermochelys coriacea* Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/1493	Endangered
Loggerhead Sea Turtle *Caretta caretta* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/1110	Threatened
Olive Ridley Sea Turtle *Lepidochelys olivacea* No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1513	Threatened

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Puerto Rican Boa Chilabothrus inornatus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Flowering Plants

NAME	STATUS
Cobana Negra Stahlia monosperma Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2282	Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

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What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

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Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

There are no migratory birds of conservation concern expected to occur at this location.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

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Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

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Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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Marine mammals

Marine mammals are protected under the Marine Mammal Protection Act. Some are also protected under the Endangered Species Act[1] and the Convention on International Trade in Endangered Species of Wild Fauna and Flora[2].

The responsibilities for the protection, conservation, and management of marine mammals are shared by the U.S. Fish and Wildlife Service [responsible for otters, walruses, polar bears, manatees, and dugongs] and NOAA Fisheries[3] [responsible for seals, sea lions, whales, dolphins, and porpoises]. Marine mammals under the responsibility of NOAA Fisheries are **not** shown on this list; for additional information on those species please visit the Marine Mammals page of the NOAA Fisheries website.

The Marine Mammal Protection Act prohibits the take (to harass, hunt, capture, kill, or attempt to harass, hunt, capture or kill) of marine mammals and further coordination may be necessary for project evaluation. Please contact the U.S. Fish and Wildlife Service Field Office shown.

1. The Endangered Species Act (ESA) of 1973.
2. The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is a treaty to ensure that international trade in plants and animals does not threaten their survival in the wild.
3. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following marine mammals under the responsibility of the U.S. Fish and Wildlife Service are potentially affected by activities in this location:

NAME

West Indian Manatee Trichechus manatus
https://ecos.fws.gov/ecp/species/4469

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Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

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This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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U.S. Fish & Wildlife Service

General Project Design Guidelines (2 Species)

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IPaC - Information for Planning and Consultation (https://ipac.ecosphere.fws.gov/): A project planning tool to help streamline the U.S. Fish and Wildlife Service environmental review process.

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Species Document Availability

Species with general design guidelines

Puerto Rican Boa Chilabothrus inornatus

West Indian Manatee Trichechus manatus

Species without general design guidelines available

Cobana Negra Stahlia monosperma

Green Sea Turtle Chelonia mydas

Hawksbill Sea Turtle Eretmochelys imbricata

Leatherback Sea Turtle Dermochelys coriacea

Loggerhead Sea Turtle Caretta caretta

Olive Ridley Sea Turtle Lepidochelys olivacea

General Project Design Guidelines - Olive Ridley Sea Turtle and 7 more species

Published by Caribbean Ecological Services Field Office for the following species included in your project

- Olive Ridley Sea Turtle *Lepidochelys olivacea*
- West Indian Manatee *Trichechus manatus*
- Loggerhead Sea Turtle *Caretta caretta*
- Cobana Negra *Stahlia monosperma*
- Green Sea Turtle *Chelonia mydas*
- Hawksbill Sea Turtle *Eretmochelys imbricata*
- Leatherback Sea Turtle *Dermochelys coriacea*
- Puerto Rican Boa *Chilabothrus inornatus*

U.S. FISH AND WILDLIFE SERVICE
CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Antillean manatee (*Trichechus manatus manatus*) for marine events.

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a manatee is subject to penalties under Federal law. If federal funds or permits are needed, the funding or permitting agency shall initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species. Download the project evaluations fact sheet to learn more about the requirements or visit our project evaluations webpage.

The U.S. Fish and Wildlife Service (USFWS) considers shallow coastal areas, bays, estuaries, river mouths and mangrove lagoon ecosystems as important for the conservation of the Antillean manatee because these areas contain the three key ecological attributes necessary for species' long-term survival: sea grass, freshwater for drinking, calm and shallow waters. Not all of these resources need to be present in order for manatees to use any particular area. The Antillean manatee in U.S. Caribbean, including Vieques, Culebra, and occasionally the U.S. Virgin Islands, are thought to spend the majority of their time in shallow waters less than 20 feet deep and regularly moving into deeper waters when moving between local sites and resources. Actions proposed for these areas should be carefully evaluated to ensure that manatees and their habitat are not affected, especially by the improper use of watercrafts within manatee habitat.

To evaluate the potential effects of any proposed marine event on manatees and its habitat, the Applicant needs to provide the following information:

- Describe the type and amount of watercraft associated to the marine event.
- Provide a map of the entire marine event course with the water depths in that area.
- Describe all types and amount of in-water markers (e.g., buoys) that will be used for the marine event.

For most high speed and high-risk events, we recommend aerial surveys (i.e., helicopter) to spot manatees in the water and track their movements. However, alternatives to aerial surveys may be considered when the Applicant justifies why they are not using aerial surveys and submit an

Last Revised: January 2020

alternate dedicated manatee observer plan (watch team) designed specifically for each marine event.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the Antillean manatee and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional recommendations can be provided.

1. Marine events must be coordinated with the U.S. Coast Guard (USCG), the National Oceanic and Atmospheric Administration (NOAA), Puerto Rico Department of Natural and Environmental Resources (PRDNER), and the U.S. Virgin Islands Department of Planning and Natural Resources (VIDPNR), if events are conducted in U.S. Virgin Islands
2. Do not plan marine events in areas shallower than 10 feet.

3. For marine events that take place at night, all watercraft should proceed at a safe speed (5 mph), in order to avoid striking any protected species.

4. All marine event personnel and participants should be informed of the possible presence of manatees in the marine event area, and the need to avoid any collision with them. A manatee awareness meeting should be held before the event. All marine event personnel and participants should be advised that there are civil and criminal penalties established by the Federal government for harming, harassing, or killing a manatee. Be aware, that the permit holder and/or contractor for the event may be held responsible for any manatee harmed, harassed, or killed as a result of the marine event if permit conditions are not followed.

5. The event area must be continuously monitored for manatees before (at least 30 to 60 minutes) and during the event to detect manatees that may approach or enter the event area by qualified manatee observers. The qualified manatee observers (watch team) should be provided with proper communication equipment (e.g., two-way radios) to allow them to stay in close communication with each other as well as with the event officials while conducting monitoring. Manatee observers should also employ the use of flags for warning or stopping an event. If communication is interrupted during an event, the race will stop until communication is restored.

    - **Note:** There is no agency observer or training program. Observers may be considered qualified based on their experience. Permit holder and/or contractor are responsible for keeping track of each observer's qualifications and experience.

6. Manatee observers should be designated exclusively for that purpose and no other. An appropriate amount of manatee observers (watch team) should be designated to cover the entire area of the marine event. The position of each observer within the marine event area or on land must also be recorded. A watch team should include a team coordinator, multiple observers at an elevated position on boats and/or land, and/or an observer in a plane or helicopter. All observers should use polarized sunglasses in order to reduce glare and enhance observations.

7. Manatee observers will be in close communication with race officials in order to stop the event if a manatee is observed within the boundaries of the event or upon the request of any observer. If a manatee is sighted within 500 feet of the perimeter of the event boundaries, the observer will immediately notify the event official to alert them that the event may need to be halted. The event official will notify the participants that extreme caution needs to be taken since there is an animal in the vicinity. The event must be stopped immediately upon request of the manatee observer. The event should not resume until the animal has moved away from the area on its own. Manatees must not be herded or harassed to leave the event area. If the observer loses sight of a manatee observed in or near the event area, the event will not resume for at least 30 minutes following the initial sighting, provided that the manatee is not observed again.

8. All participating vessels will travel to and from the event course under the direct supervision of event officials and at idle speed, or the slowest possible navigable speed, until arriving at the course.

9. All participants and official boats should adhere to speed zones adjacent to the event site.

10. A final manatee observer report should be submitted to the USFWS (refer to contact emails below) within 30 days of the event, including a copy of the final USCG permit. Any manatee injury or deaths should be reported immediately:
    - PRDNER: (787) 724-5700, (787) 230-5550, (787) 771-1124
    - USFWS: (786) 244-0081
    - Puerto Rico Manatee Conservation Center: (787) 400-2782, (787) 279-1912 ext. 2070

11. No marine event watercrafts, including spectators, should anchor on or above seagrass and coral reefs.

12. If any of the above recommendation is not met prior to or during the event, the event should be immediately terminated.

13. All marine events should also avoid potential effects on sea turtle nests or sea turtles in the water. Be aware these recommendations are for manatees only, sea turtles in the water or other marine mammals are under the purview of NOAA, thus consultation with them should be initiated as well.

If you have any questions regarding the above conservation measures, please contact the Service:

- Marelisa Rivera, Deputy Field Supervisor
    - Email: marelisa_rivera@fws.gov
    - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
    - Email: jose_cruz-burgos@fws.gov
    - Office phone (786) 244-0081 or mobile (305) 304-1386

U.S. FISH & WILDLIFE SERVICE
CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE
JANUARY 2012

TECHNICAL ASSISTANCE TO EVALUATE EFFECTS ON ANTILLEAN MANATEES

The Service considers shallow coastal areas, bays, estuaries, river mouths and mangrove lagoon ecosystems as important for the conservation of the Antillean manatee because these areas contain all the natural elements preferred by manatees: abundant sea grass relatively calm waters, sheltered spots, and freshwater sources, as well as a relatively low number of boats within the bay. Actions proposed for these areas should be carefully examined, to ensure that elements required by this species are not compromised.

To evaluate the potential effect of proposed action on manatees, we need the applicants to address the following issues:

1. Type and amount of watercraft associated to the project

2. Amount of boat facilities (e.g. ramps, piers, dry-stacks, buoys, among others)

3. Amount of habitat to be affected (e.g. acres of sea grasses and/or mangroves)

4. Provisions / restrictions to be taken to prevent collisions with manatees (e.g. delineation of an entrance channel, marking buoys, navigation aids, among others).

5. Outreach efforts to be implemented concerning boat operation. One of the main components of a successful operation of facilities that implement mechanisms to safeguard threatened and endangered species is a comprehensive outreach program that clearly indicates to the public 1) the actions that the facility is undertaking to protect such species (including assurances on the implementation of protection measures), and 2) the activities that the public should take to minimize or prevent impacts to sensitive species and their habitats. Guidelines for safe operation of watercrafts should be included as part of the outreach/education component of the proposed project (example attached below).

6. Any other site-specific conservation measure applicable for the project.

EXAMPLE OF CONSERVATION MEASURES FOR IN-WATER PROJECTS (INCLUDING DREDGING ACTIVITIES)

The following manatee conservation measures are recommended:

1. The contractor instructs all personnel associated with construction of the facility of the presence of manatees and the need to avoid collisions with manatees.

2. All construction personnel will be advised that there are civil and criminal penalties for harming, harassing, or killing manatees, which are protected under the Endangered Species Act of 1973 and the Marine Mammal Protection Act of 1972. The permit holder and/or contractor will be held responsible for any manatee harmed, harassed, or killed as a result of construction of the project.

3. The project work area shall be surveyed for the presence of manatees at least one hour before any dredging starts and prior to the installation of the silt fence. If manatees are found before any in-water project activity starts, the contractor shall wait for the manatee to leave the area by itself and be at least 100 feet from the project in-water area. Manatees must not be herded or harassed into leaving the area.

4. Siltation barriers will be made of material in which manatee cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.

5. All vessels associated with the project construction will operate at “no-wake/idle” speed at all times while in water within manatee areas and vessels will follow routes of deep water whenever possible.

6. If manatees are seen within 100 yards (300 feet) of the in-water work area, all appropriate precautions shall be implemented to ensure protection of the manatees. These precautions shall include operating all equipment in such a manner that moving equipment does not come any closer than 50 to 100 feet of any manatee. If a manatee is within 50 feet of in-water work, all in-water activities must shut down, until manatee moves on its own at least 100 feet away from the in-water work area. Manatees must not be herded or harassed into leaving the area.

7. Any collision with and/or injury to a manatee shall be reported immediately to the Department of Natural and Environmental Resources Law Enforcement (787-724-5700) and the USFWS Caribbean Ecological Services Field Office (787-851-7297).

8. The contractor shall keep a log detailing sightings, collisions, or injury to manatees, which have occurred during the contract period. Following project completion, a report summarizing the above incidents and sightings will be submitted to the U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office, P.O. Box 491, Boquerón, Puerto Rico 00622.

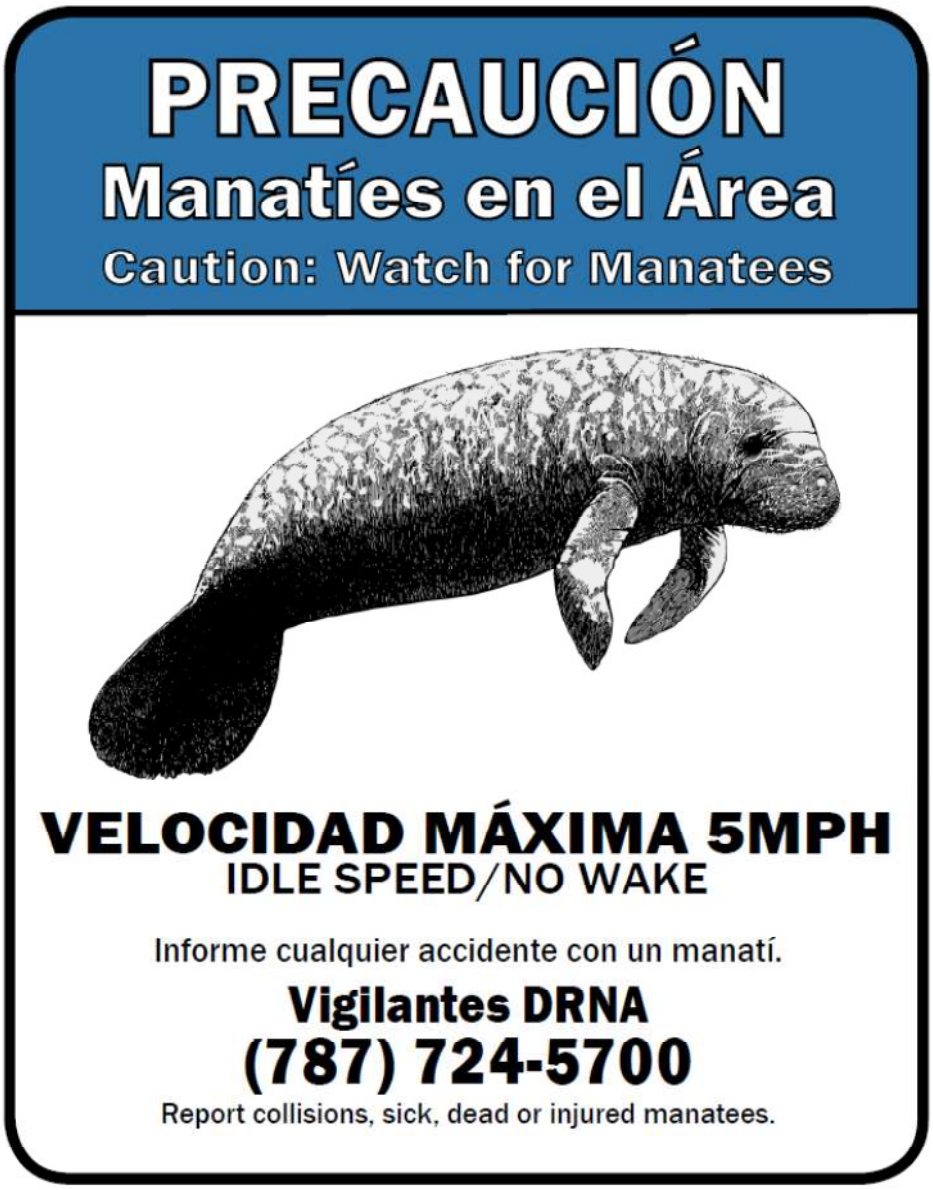
9. The permit holder and/or contractor shall install and maintain temporary and permanent manatee signs as recommended by the following guidelines:

    a. Signs must be placed in a prominent location for maximum visibility. Areas that are recommended include: dock walkways, dock master offices, near restrooms or other high patron foot traffic areas.
    b. Signs must be replaced when faded, damaged or outdated.
    c. If the facility is large or has multiple docks with separate walkways that are a considerable distance apart, multiple signs should be installed.
    d. These signs must not face the water, must never be attached to pilings or navigational markers in the water. Some exceptions to signs facing the water exist for temporary signs during in-water work.
    e. For durability, all signs should be fiberglass, PVC or metal with rounded corners (hand-sanded to remove all sharp edges and burrs), constructed of 0.08 Gauge 5052-H38 Aluminum with an Alodine 1200 conversion coating and Engineer Grade Type I reflective sheeting. Signs constructed to other specifications may not provide durability acceptable to the consumer.
    f. Signs other than depicted may be considered, but should be approved by USFWS.



This **temporary** bilingual sign is required as part of the standard manatee construction conditions and is intended to be placed near dredge, tugboat and work boat operators. Minimum size should be at least 8½" inches tall by 11" inches wide, and besides the above recommendation, the sign may be in laminated paper. This sign shall be installed or distributed prior to the initiation of construction. Temporary signs will be removed by the permit holder upon completion of construction.

To obtain a ready to print copy of this sign, please contact the USFWS Caribbean Ecological Services Field Office at (786) 244-0081 or by email at jan_zegarra@fws.gov

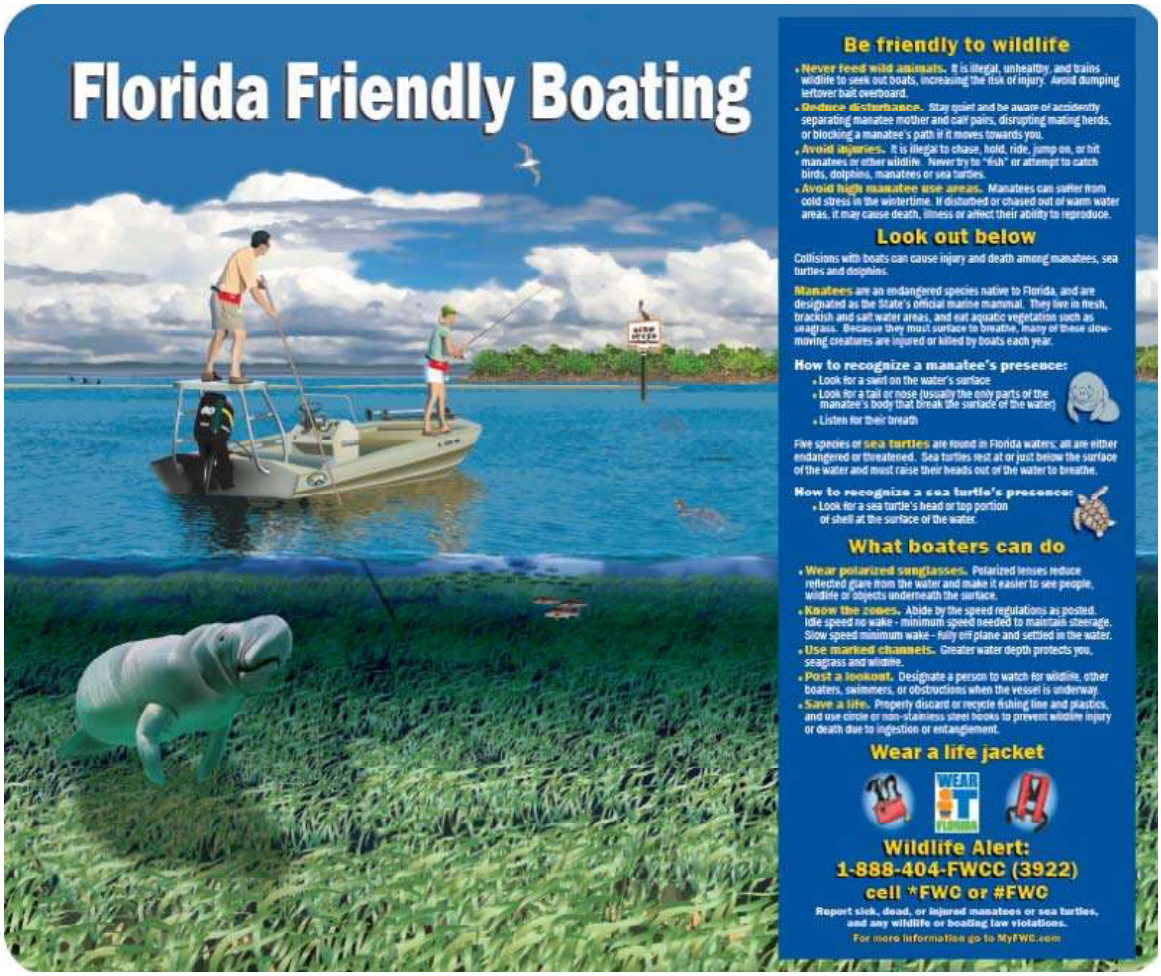


This **permanent** bilingual sign is required as part of the standard manatee construction conditions and is intended to be placed within docking and launching facilities. Minimum size should be at least 30" inches tall by 24" inches wide with rounded corners. This sign shall be installed prior, during or after project construction. This permanent sign may not be required for coastal projects that **do not** have docking and/or launching facilities.

To obtain a ready to print copy of this sign, please contact the USFWS Caribbean Ecological Services Field Office at 787-851-7297 ext. 220 or by email at jan_zegarra@fws.gov

10. A permanent bilingual manatee educational sign should be installed and maintained prior to mooring occupancy at a prominent location to increase the awareness of boaters using the facility of boats to these animals. The numbers of educational signs that may be installed will depend on the docking facility design. One manatee educational sign is recommended at each boat ramp or travel lift (if applicable). Manatee educational signs remain the responsibility of the owner(s) and the Service recommends the signs be maintained for the life of the docking facility in a manner acceptable to the Corps of Engineers.

EXAMPLE MANATEE EDUCATIONAL SIGN



This **permanent** educational sign should have a minimum size of at least 30” inches tall by 36” inches wide with rounded corners.

11. A notarized verification letter stating that permanent signs have been installed at designated locations shall be forwarded to the Corps of Engineers, Antilles Regulatory Section, as soon as they are installed. Signs and pilings remain the responsibility of the owner(s) and are to be maintained for the life of the docking and launching facility in a manner acceptable to the Corps of Engineers.

12. Signs other than depicted above may be considered, but should be approved by USFWS. Signs shall have at least the following minimal recommend information:

    a. Temporary bilingual signs:

PRECAUCIÓN
MANATÍES EN EL ÁREA
Mantenga velocidad de 5 mph dentro del área de construcción
Informe cualquier incidente con un manatí
Vigilantes DRNA 787-724-5700

CAUTION
MANATEES IN THE AREA
Maintain idle speed/no wake (5 mph) within construction site
Report any collisions with or injury to a manatee

    b. Permanent bilingual signs:

PRECAUCIÓN
MANATÍES EN EL ÁREA
Velocidad máxima 5 mph
Informe cualquier incidente con un manatí
Vigilantes DRNA 787-724-5700

CAUTION
MANATEES IN THE AREA
Idle speed/No wake (5 mph) zone
Report collisions, sick, dead or injured manatees

    c. Permanent bilingual educational sign and some of the of the recommended information it should include:

GUÍA PARA LA PROTECCIÓN Y CONSERVACIÓN DEL MANATÍ
(*MANATEE PROTECTION AND CONSERVATION GUIDELINES*)

1. Utilice gafas polarizadas mientras navega. Éstas ayudan a detectar mejor al manatí, las áreas llanas y cualquier obstáculo en el mar. (*Use polarized sunglasses while navigating. These help to detect any manatee, shallow waters and any other obstacle in the wáter.*)

2. Si usted ve un manatí en la trayectoria de su embarcación, reduzca la velocidad a 5 mph y conduzca la embarcación fuera del paso del manatí o espere a que el manatí salga del área poniendo su embarcación en neutro. (*If you see a manatee within the*

path of your vessel, reduce the velocity to 5 mph and turn your vessel away from the manatee's path or wait until the manatee has moved from the area by putting your vessel in neutral.)

3. Luego de asegurarse de que el manatí esté fuera de la trayectoria de su embarcación, continúe navegando despacio (no más de 5 mph) hasta que su embarcación se encuentre a no menos de 50 pies (15 metros) del manatí. (*After you are certain that the manatee is well outside of the path of your vessel, resume navigation slowly (not more than 5 mph) until your vessel is not less than 50 feet (15 meters) away from the manatee*.)

4. Obedezca las zonas con límites de velocidad y reduzca la velocidad en aguas llanas menores a 10 pies de profundidad en particular cerca de la costa, en las desembocaduras de ríos, en praderas de hierbas marinas y manglares. (*Obey regulatory speed zones and reduce velocity in shallow waters less than 10 feet, particularly close to the coast, in river mouths, in sea grass beds and mangroves.*)

5. Si observa un manatí mientras usted está en el agua, obsérvelo pasivamente, no lo persiga, acose o lo toque. (*If you observe a manatee while in the water, passively observe it, do not follow it, nor harass or touch.*)

6. No tire basura al agua. El manatí puede ingerirla o enredarse en ella, lo cual podría causarle heridas o la muerte. (*Do not throw trash in the water. Manatees may ingest or entangle on trash, which may injure or kill it.*)

7. Nunca alimente o le ofrezca agua a un manatí. Es ilegal y los malacostumbra a acercarse a lugares donde pueden ser lastimados. (*Never feed or give water to a manatee. It is illegal and will wrongly habituate them to approach areas where they can be injured.*)

Informe accidentes con un manatí inmediatamente. Si encuentra un bebé manatí solo, en peligro, herido o muerto, llame al Cuerpo de Vigilantes del Departamento de Recursos Naturales y Ambientales al 787-724-5700 o al Programa de Rescate de Mamíferos Marinos al 787-833-2025, 787-538-4684 ó 787-645-5593. (*Inform any accident with a manatee immediately. If you find a baby manatee alone, in danger, injured or dead, call the Department of Natural and Environmental Resources Law Enforcement of at 787-724-5700 or the Marine Mammal Rescue Program at 787-833-2025, 787-538-4684 or 787-645-5593.*)

Herir o matar un manatí puede conllevar multas de más de $50,000 y/o no menos de dos años de cárcel. ¡EVÍTESE ESE RIESGO!
(*Harming or killing a manatee could carry fines of more than $50,000 and/or not less than two years in prison. AVOID THIS RISK!*)

GRACIAS POR AYUDAR A SALVAR LOS MANATÍES
THANKS FOR HELPING SAVE THE MANATEES

General Project Design Guidelines - Olive Ridley Sea Turtle and 7 more species

Published by Caribbean Ecological Services Field Office for the following species included in your project

- Olive Ridley Sea Turtle *Lepidochelys olivacea*
- West Indian Manatee *Trichechus manatus*
- Loggerhead Sea Turtle *Caretta caretta*
- Cobana Negra *Stahlia monosperma*
- Green Sea Turtle *Chelonia mydas*
- Hawksbill Sea Turtle *Eretmochelys imbricata*
- Leatherback Sea Turtle *Dermochelys coriacea*
- Puerto Rican Boa *Chilabothrus inornatus*

U.S. FISH AND WILDLIFE SERVICE
CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (*Chilabothrus inornatus*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.


Adult PR boa – *Chilabothrus inornatus*
Photo: Puerto Rico by JP Zegarra

Last Revised: November 2020

The Puerto Rican boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types ranging from wet montane to subtropical dry forest, and can be found from mature forest to areas with different degrees of human disturbance like roadsides or houses, especially if near their habitat in rural areas. This boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.

2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.

3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.

4. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.

5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.

6. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.

8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.

9. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.

10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.

11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). If the PR boa was accidentally? killed as part of the project actions, please include information on what conservation measures had been implemented and what actions that will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.

12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- Marelisa Rivera, Deputy Field Supervisor
  - Email: marelisa_rivera@fws.gov
  - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
  - Email: jose_cruz-burgos@fws.gov
  - Office phone (786) 244-0081 or mobile (305) 304-1386

Last Revised: November 2020

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (787) 834-1600 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To: June 23, 2023
Project Code: 2023-0096764
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

THE FOLLOWING SPECIES LIST IS NOT A SECTION 7 CONSULTATION. PLEASE CONTACT OUR OFFICE TO COMPLETE THE CONSULTATION PROCESS

The purpose of the Endangered Species Act (Act) is to provide a means whereby threatened, and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect those species and/or their designated critical habitat.

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". The enclosed species list provides information to assist with the U.S. Fish and Wildlife Service (Service) consultation process under section 7 of the Act. However, **the enclosed species list does not complete the required consultation process.** The species list identifies threatened, endangered, proposed and candidate species, as well as proposed and designated critical habitats, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. A discussion between the Federal agency and the Service should include what types of listed species may occur in the proposed action area and what effect the proposed action may have on those species. This process initiates informal consultation.

Once a species list is obtained for the proposed project, an effect determination for endangered and threatened species should be made. The applicant could make an effect determination by using available keys on IPaC for specific species. For species with no determination keys, the applicant should request concurrence from the Service by sending a project package

to caribbean_es@fws.gov. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

https://www.fws.gov/southeast/pdf/letter/consultation-under-section-7-of-the-endangered-species-act-with-the-caribbean-ecological%20Services-field-office-template-letter.pdf

When a federal agency, after discussions with the Service, determines that the proposed action is not likely to adversely affect any listed species, or adversely modify any designated critical habitat, and the Service concurs, the informal consultation is complete, and the proposed project moves ahead. If the proposed action is suspected to affect a listed species or modify designated critical habitat, the Federal agency may then prepare a Biological Assessment (B.A.) to assist in its determination of the project's effects on species and their habitat. However, a B.A. is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a B.A. where the agency provides the Service with an evaluation on the likely effects of the action to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a B.A. are described at 50 CFR 402.12.

If a federal agency determines, based on its B.A. or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to further consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation process. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species.

This list is provided pursuant to Section 7 of the Endangered Species Act and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". Please use this list to determine whether your project requires consultation and to make your effects determination. For more guidance, use the Guideline for Consultation under Section 7 of the Endangered Species Act with the Caribbean Ecological Services Field Office by clicking here.

This species list is provided by:

Caribbean Ecological Services Field Office
caribbean_es@fws.gov

Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Marine Mammals
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
(787) 834-1600

PROJECT SUMMARY

Project Code: 2023-0096764
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón
Project Type: Culvert Repair/Replacement/Maintenance
Project Description: The Municipality of Cabo Rojo proposes the action foresees the development of a project under
the concept of public installation, with the purpose of rehabilitating the area of the Boquerón
Village located from PR-101 km. 18.6 to km. 19.7, its works are:
-Bench area and in the center emblematic sign with the name of Margarita Pabón.
-Area with strategically located trees.
-Vertical public art in the square
-Repaving of Hermogenes Pou Street and both entrances to Poblado.
-Rehabilitation of sidewalks and curbs.
-Replacement, rehabilitation, and installation of new lighting fixtures.
- Rehabilitation of the Main Plaza of the Boquerón Settlement and should include some areas with
typical
Cabo Rojo landscape mosaics and/or murals within this area.
- Installation of Cabo Rojo's emblematic sign in the Boquerón Village's Main Square.
- Landscape restoration, improvement, and greening of spaces.
- Elimination of architectural barriers that affect handicapped people.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.0249721,-67.17316539751835,14z



Counties: Cabo Rojo County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 8 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
West Indian Manatee *Trichechus manatus*	Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

This species is also protected by the Marine Mammal Protection Act, and may have additional consultation requirements.

Species profile: https://ecos.fws.gov/ecp/species/4469

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/CVSQUBGKSBDWDLN3CFQKTUDRXI/documents/generated/6943.pdf

REPTILES

NAME — STATUS

Green Sea Turtle *Chelonia mydas* — Threatened
- Population: North Atlantic DPS
- There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
- Species profile: https://ecos.fws.gov/ecp/species/6199

Hawksbill Sea Turtle *Eretmochelys imbricata* — Endangered
- There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
- Species profile: https://ecos.fws.gov/ecp/species/3656

Leatherback Sea Turtle *Dermochelys coriacea* — Endangered
- There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
- Species profile: https://ecos.fws.gov/ecp/species/1493

Loggerhead Sea Turtle *Caretta caretta* — Threatened
- Population: Northwest Atlantic Ocean DPS
- There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
- Species profile: https://ecos.fws.gov/ecp/species/1110

Olive Ridley Sea Turtle *Lepidochelys olivacea* — Threatened
- Population: Wherever found, except when listed as endangered under 50 CFR 224.101
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/1513

Puerto Rican Boa *Chilabothrus inornatus* — Endangered
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/6628
- General project design guidelines:
  https://ipac.ecosphere.fws.gov/project/CVSQUBGKSBDWDLN3CFQKTUDRXI/documents/generated/6941.pdf

FLOWERING PLANTS

NAME — STATUS

Cobana Negra *Stahlia monosperma* — Threatened
- No critical habitat has been designated for this species.
- Species profile: https://ecos.fws.gov/ecp/species/2282

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list

of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?
The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?
To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?
Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects
For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical

Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?
If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

MARINE MAMMALS

Marine mammals are protected under the Marine Mammal Protection Act. Some are also protected under the Endangered Species Act[1] and the Convention on International Trade in Endangered Species of Wild Fauna and Flora[2].

The responsibilities for the protection, conservation, and management of marine mammals are shared by the U.S. Fish and Wildlife Service [responsible for otters, walruses, polar bears, manatees, and dugongs] and NOAA Fisheries[3] [responsible for seals, sea lions, whales, dolphins, and porpoises]. Marine mammals under the responsibility of NOAA Fisheries are **not** shown on this list; for additional information on those species please visit the Marine Mammals page of the NOAA Fisheries website.

The Marine Mammal Protection Act prohibits the take of marine mammals and further coordination may be necessary for project evaluation. Please contact the U.S. Fish and Wildlife Service Field Office shown.

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1. The Endangered Species Act (ESA) of 1973.
2. The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is a treaty to ensure that international trade in plants and animals does not threaten their survival in the wild.
3. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

NAME

West Indian Manatee *Trichechus manatus*

Species profile: https://ecos.fws.gov/ecp/species/4469

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Department of Housing and Urban Development
Name: Alondra Maldonado
Address: PO Box 1461
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State: PR
Zip: 00984
Email amaldonado@quantum-value.com
Phone: 7876441991

LEAD AGENCY CONTACT INFORMATION

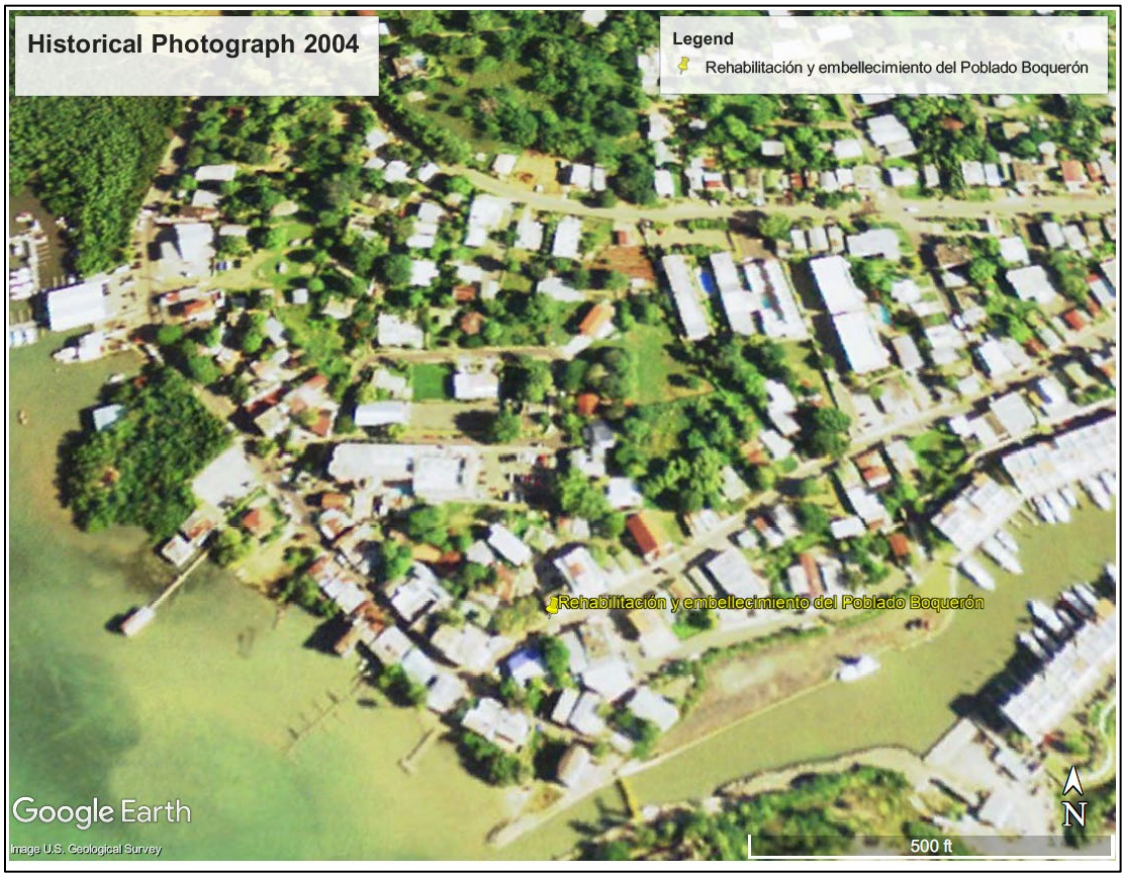
Lead Agency: Department of Housing and Urban Development

Appendix 4. Historical Photographs

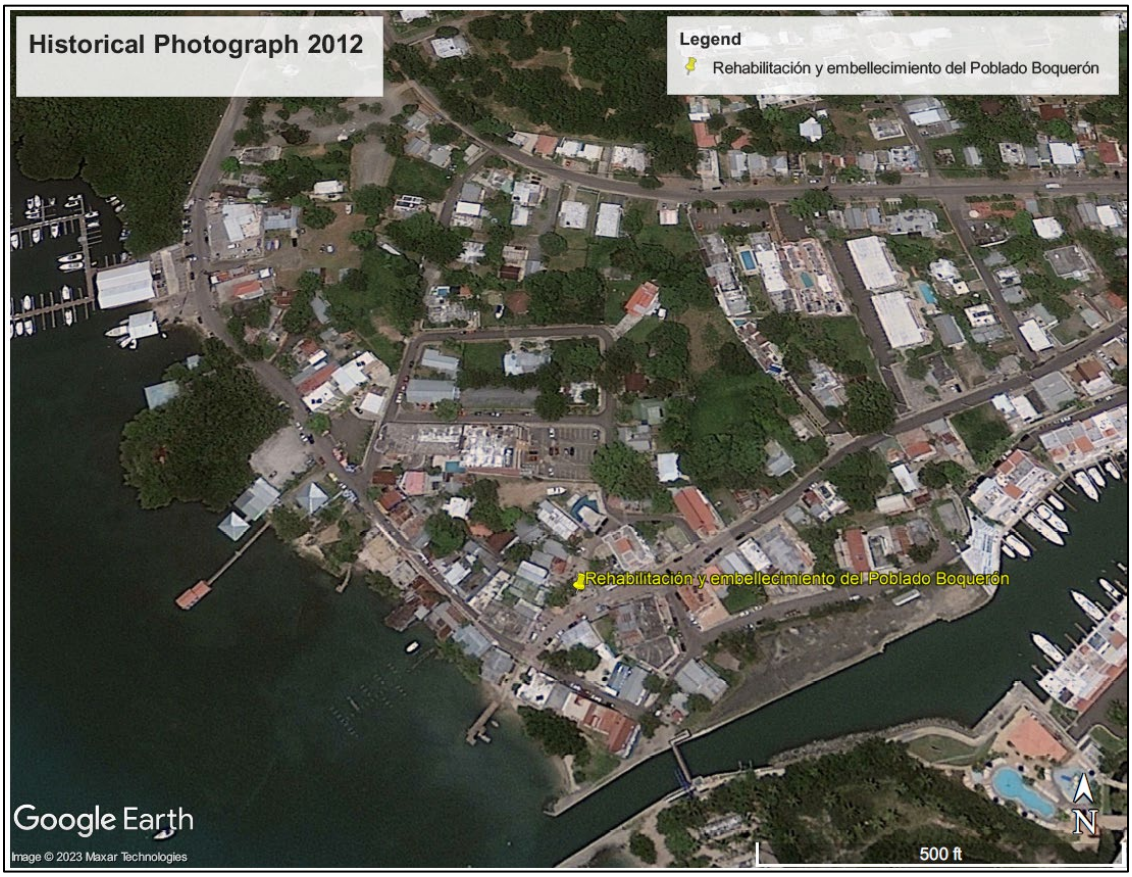
Año: 1994


Historical Photograph 1994
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image U.S. Geological Survey
N
400 ft

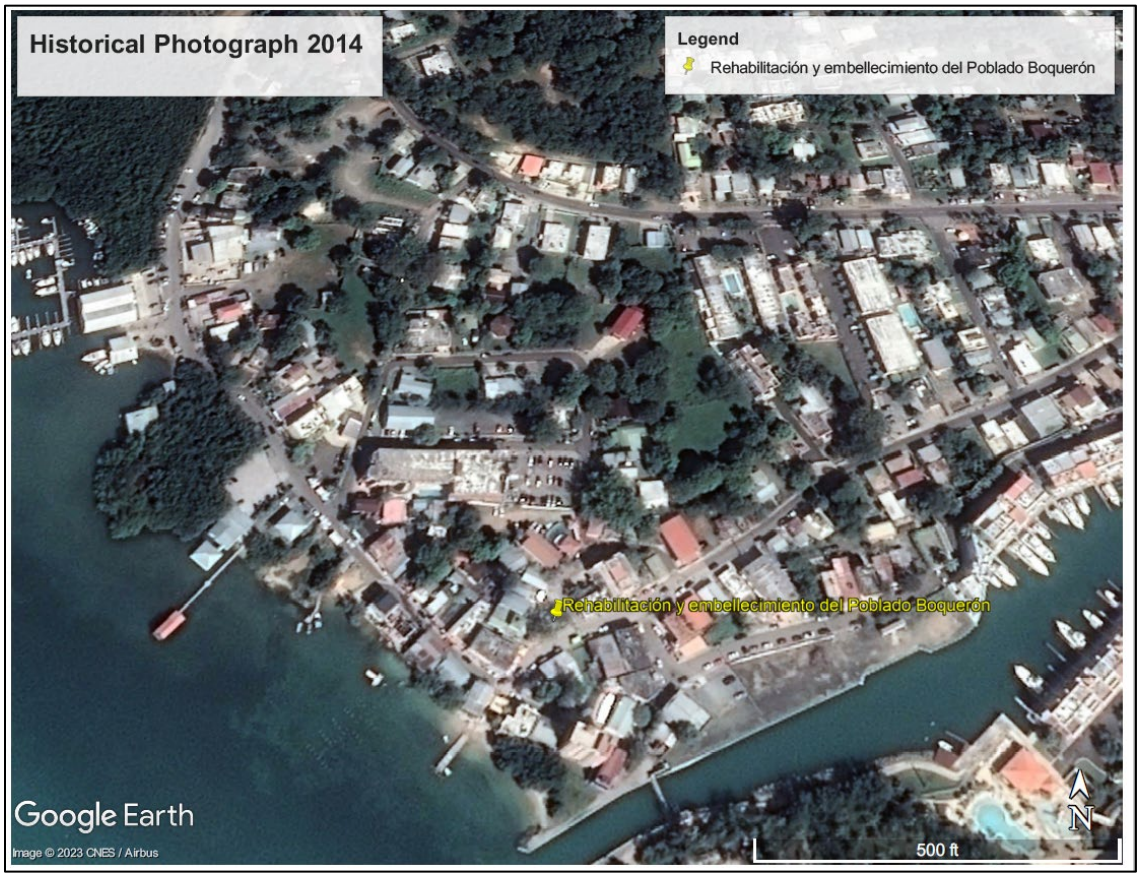
Año: 2004


Historical Photograph 2004
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image U.S. Geological Survey
500 ft
N

Año: 2012


Historical Photograph 2012
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image © 2023 Maxar Technologies
500 ft
N

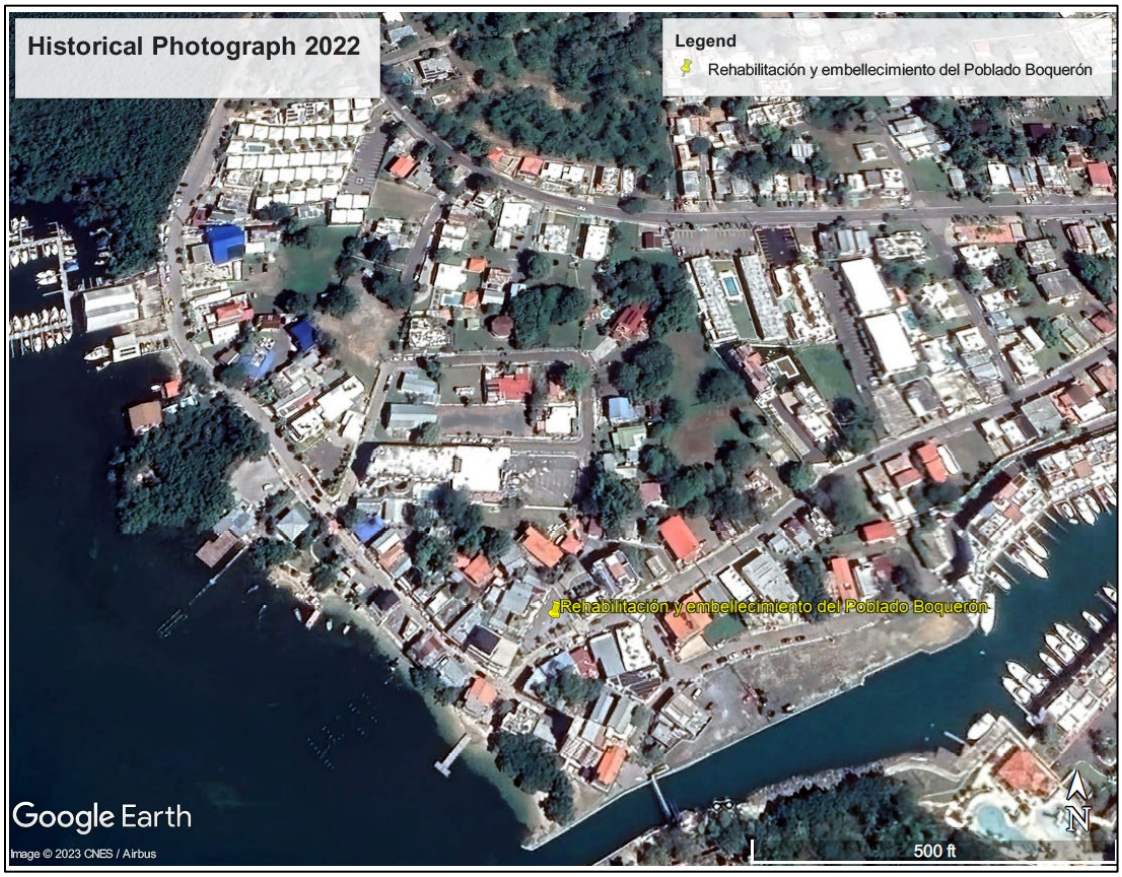
Año: 2014


Historical Photograph 2014
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image © 2023 CNES / Airbus
N
500 ft

Año: 2019


Historical Photograph 2019
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image © 2023 Maxar Technologies
N
500 ft

Año: 2022


Historical Photograph 2022
Legend
Rehabilitación y embellecimiento del Poblado Boquerón
Rehabilitación y embellecimiento del Poblado Boquerón
Google Earth
Image © 2023 CNES / Airbus
500 ft
N

Appendix 5. NLAA Consistency Letter_ Caribbean ES Field Office Determination Key for Puerto Rico and the U.S. Virgin Islands. June 23, 2023.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (787) 834-1600 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To: June 23, 2023
Project code: 2023-0096764
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón

Subject: Consistency letter for the project named 'Rehabilitación y Embellecimiento del Poblado Boquerón' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On June 23, 2023, Alondra Maldonado used the Caribbean DKey; dated February 08, 2023, in the U.S. Fish and Wildlife Service's online IPaC application to evaluate potential impacts to federally listed species, from a project named 'Rehabilitación y Embellecimiento del Poblado Boquerón'. The project is located in Cabo Rojo County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.0249721,-67.17316539751835,14z



The following description was provided for the project 'Rehabilitación y Embellecimiento del Poblado Boquerón':

> The Municipality of Cabo Rojo proposes the action foresees the development of a project under
> the concept of public installation, with the purpose of rehabilitating the area of the Boquerón
> Village located from PR-101 km. 18.6 to km. 19.7, its works are:
> -Bench area and in the center emblematic sign with the name of Margarita Pabón.
> -Area with strategically located trees.
> -Vertical public art in the square
> -Repaving of Hermogenes Pou Street and both entrances to Poblado.
> -Rehabilitation of sidewalks and curbs.
> -Replacement, rehabilitation, and installation of new lighting fixtures.
> - Rehabilitation of the Main Plaza of the Boquerón Settlement and should include some areas with
> typical
> Cabo Rojo landscape mosaics and/or murals within this area.
> - Installation of Cabo Rojo's emblematic sign in the Boquerón Village's Main Square.
> - Landscape restoration, improvement, and greening of spaces.
> - Elimination of architectural barriers that affect handicapped people.

Based on your answers and the assistance of the Service's Caribbean DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Hawksbill Sea Turtle (*Eretmochelys imbricata*)	Endangered	NLAA
Leatherback Sea Turtle (*Dermochelys coriacea*)	Endangered	NLAA
Loggerhead Sea Turtle (*Caretta caretta*)	Threatened	NLAA
Puerto Rican Boa (*Chilabothrus inornatus*)	Endangered	No effect

Consultation with the Service is not complete. The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Caribbean DKey in order to satisfy the agency's consultation requirements for this project.

Please provide this consistency letter to the lead federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **702-128131814**

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species**. If relocation of the species is needed, please contact either the Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or

787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion. Effects to the other federally listed species or critical habitat as listed below should be considered as part of your ESA review for the project.

- Cobana Negra *Stahlia monosperma* Threatened
- Green Sea Turtle *Chelonia mydas* Threatened
- Olive Ridley Sea Turtle *Lepidochelys olivacea* Threatened
- West Indian Manatee *Trichechus manatus* Threatened

If the proposed project is located within species range where a DKey has not been developed for those species, please follow the established guidance for initiating section 7 consultation Caribbean Ecological Services Field Office.

We appreciate your interest in protecting endangered species and their habitats. It is the Service’s mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Rehabilitación y Embellecimiento del Poblado Boquerón

2. Description

The following description was provided for the project 'Rehabilitación y Embellecimiento del Poblado Boquerón':

> The Municipality of Cabo Rojo proposes the action foresees the development of a project under
> the concept of public installation, with the purpose of rehabilitating the area of the Boquerón
> Village located from PR-101 km. 18.6 to km. 19.7, its works are:
> -Bench area and in the center emblematic sign with the name of Margarita Pabón.
> -Area with strategically located trees.
> -Vertical public art in the square
> -Repaving of Hermogenes Pou Street and both entrances to Poblado.
> -Rehabilitation of sidewalks and curbs.
> -Replacement, rehabilitation, and installation of new lighting fixtures.
> - Rehabilitation of the Main Plaza of the Boquerón Settlement and should include some areas with
> typical
> Cabo Rojo landscape mosaics and/or murals within this area.
> - Installation of Cabo Rojo's emblematic sign in the Boquerón Village's Main Square.
> - Landscape restoration, improvement, and greening of spaces.
> - Elimination of architectural barriers that affect handicapped people.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.0249721,-67.17316539751835,14z



QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? (MSGP Fact Sheet)

   No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, etc.)

   Yes

3. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

   Automatically answered
   Yes

4. Will the proposed project modify sea turtle habitat?

   Note: Examples of activities that could modify sea turtle habitat include beach nourishment, excavation, sand extraction, mechanized beach cleaning, fencing, removal of coastal vegetation, riprap, or construction of any other permanent structures within 70 meters setback from hightide line.

   No

5. Will the proposed project include lighting that is visible (directly or indirectly) from the beach?

   Note: Examples of lighting are Street lighting, security lighting, landscape lighting.

   Yes

6. Will the proposed project implement the U.S. Fish and Wildlife Service Conservation Measures for sea turtles in Puerto Rico and the U.S. Virgin Islands Sea Turtle conservation measures and a comprehensive lighting plan? (Conservation Measures)

   Yes

7. [Hidden Semantic] Does the proposed project intersect the leatherback sea turtle area of influence?

   Automatically answered
   Yes

8. [Hidden Semantic] Does the proposed project intersect the Hawksbill sea turtle area of influence?

   Automatically answered
   Yes

9. [Hidden Semantic] Does the proposed project intersect the Loggerhead sea turtle area of influence?

   Automatically answered
   Yes

IPAC USER CONTACT INFORMATION

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Email amaldonado@quantum-value.com
Phone: 7876441991

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Attachment E
Floodplain Management

EXECUTIVE ORDER 11988 – FLOODPLAIN MANAGEMENT EIGHT-STEP PROCESS
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RELIEF (CDBG-DR) PROGRAM

FLOODPLAIN MANAGEMENT 8-STEP DECISION-MAKING PROCESS
(Steps 1- 8)

Project: "Rehabilitación y Embellecimiento del Poblado Boquerón", Municipality of Cabo Rojo, Puerto Rico

Project No. PR-CRP-000847, Grant No. B-18-DM-72-0001, B-18-DP-72-0001

Decision Process for Executive Order 11988 as Provided by 24 CFR §55.20

Step 1: ***Determine whether the action is located in a Floodplain or Wetland.***

The proposed project, PR-CRP-000847, is located at PR-121 Road, Quilichini Avenue, Cabo Rojo, PR 00637; from coordinates 18.0287, -67.1745 to coordinates 18.0271, -67.1689. The proposed activity with dimensions of 8.94 acres is situated in combined zones, 5.36 acres in 100-yr floodplain zone AE, 2.43 acres in coastal zone A 100-yr floodplain, 0.17 acres in 100-yr floodplain zone VE, and 0.98 acres in zone X outside the 100-yr floodplain. The project consists of the following items: rehabilitation of sidewalks and tapings, replacement, rehabilitation and / or installation of new luminaires and poles, rehabilitation of the Main Plaza Poblado Boquerón (Plaza Margarita Pabón) and must include some areas with mosaics and / or murals typical of the landscape of Cabo Rojo within this area, installation of emblematic sign of Cabo Rojo in the Plaza Margarita Pabón -Poblado de Boquerón, landscape restoration, improvement and greening of spaces, resurfacing of Hermógenes Pou, Gil Bouyet Street and both entrance streets to the Town, elimination of architectural barriers that affect people with disabilities (ADA Compliance) and construction of bench area and installation of monument with plaque in the name of Margarita Pabón and her history in the Main Square Poblado Boquerón. There will not be acquisition of private land and no new construction on previously undisturbed areas addressed by this notice.

The proposed activity shown in Panel 72000C1545J, can be found at Mapa Niveles de Inundación Base Recomendados por: (pr.gov) .

The project is located adjacent to an estuarine and marine wetland. The wetland in the project area can be found at National Wetlands Inventory at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.

Refer to Attachment 1 for FIRMette, ABFE Map and Wetland Map.

This analysis will consider impacts to the floodplain along with concerns for loss of life or property; if applicable.

Step 2: *Notify the public for early review of the proposal and involve the affected and interested public in the decision-making process.*

A public notice describing the project was published in the "Primera Hora" newspaper of Puerto Rico on December 12, 2023. The notice targeted local residents, including those in the floodplain. The notice was also sent to interested Federal, and State agencies to be interested in such notices. The required fifteen (15) calendar days were allowed for public comment. As required by regulation, the notice also included the name, proposed location and description of the activity, total number of floodplain acres involved, and the responsible entity contact for information as well as a website and the location and hours of the office at which a full description of the proposed action can be viewed. No comments were received. No opposition to the proposed project was expressed by the commentators. Attachment 2 includes copy of the public notice.

Step 3: *Identify and evaluate practicable alternatives.*

The Municipality of Cabo Rojo have considered the following alternatives: Alternative 1: Locate the Project Within the Floodplain. – The proposed action is according to zoning. Besides, the proposed project will not exceed the existing developed footprint and will maintain the present use of the facility. The proponent considers that the project most likely will not have a significant impact on the actual runoff water behavior during weather events.

Alternative 2: Locate the Project Outside of the Floodplain. - The Municipality of Cabo Rojo did not identify an alternative site to develop the proposed project, because the main purpose of the project is to provide recreational alternatives to residents and visitors of this community.

Alternative 3: No action taken. - The proposed project will not be developed, and the facility will not be enhanced.

Step 4: *Identify Potential Direct and Indirect Impacts of Associated with Floodplain Development.*

The Municipality of Cabo Rojo selected Alternative 1 because the needed plaza and sidewalk improvements. The proposed project will also provide recreational alternatives to low- and moderate-income communities surrounding the area. Alternative 1 will have no impact to the floodplain. In consequence, the structures will be constructed according to the current regulations designed to minimize these impacts. Potential adverse impacts from construction would be temporary and mitigated through construction staging plans developed in partnership with the Cabo Rojo Municipality to minimize disturbance throughout the construction period and at the end of the project. The proposed project will be connected to the existing infrastructure systems to minimize adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora & fauna habitat in the floodplain and the wetland. It will also improve existing site's conditions, and infrastructure. This alternative will enhance current recreational and outdoor options to low- and moderate-income residents of the community, and also contributes to attract of tourism to this city, supporting the community economy. The People of Puerto Rico and the Municipality of Cabo Rojo are the owners of the proposed project site. No additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved. Construction debris will be collected and disposed at a certified dump site or other authorized facility to manage wastes. Project activities will not impact wetlands. The proposed project will be connected to the existing infrastructure systems, minimize adverse impacts on the environment and will help preserve the present functions and values like water quality, erosion control and flora & fauna habitat in the facility.

Step 5: Mitigate Adverse Impacts

It is the Municipality of Cabo Rojo determination that there is no practicable alternative for locating the project outside the flood zone.

The highest priority of this review is to prevent the loss of life. No loss of life will be generated as part of the proposed actions. On the contrary, the proposed works would not only generate a positive impact to the actual floodplain and wetlands in benefit of the people's life and security by providing a resilient facility, but it will also help to protect the financial investment of the contiguous business by promoting tourism that actually support the community economy.

In order to preserve property, flood insurance will also be acquired and maintained in order to mitigate flood damage.

The site design chosen as an alternative 1 at Step 3 have no floodplain impact and procure new construction from occurring in the floodplain consider provisions for draining. The construction will have minimal effects on water resources.

Potential impacts to the floodplain will also be limited due to construction occurring within the previously developed site. The proposed action will not negatively affect floodwater conveyance, water quality, or existing flora/fauna (considering the area is a heavily traversed urban setting). General erosion control methods will be used during the construction process. The project will not negatively impact recreational, educational, scientific, historical, or cultural values of the area.

Step 6: Re-Evaluate Alternatives

It is the Municipality of Cabo Rojo determination that there is no practicable alternative for locating the project outside the flood zone. No new occupancy or modification of the floodplain and wetland areas will take place since this project consists of an existing recreational facility that is actually in use and that constitute the actual commercial urban area of the municipality of Cabo Rojo. The proposed improvements will provide longer useful life of the facility so that it can be continued to be used by citizens of Cabo Rojo and their visitors. The People of Puerto Rico and the Municipality of Cabo Rojo are the owners of the proposed project site. No additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved.

It is the responsible entity determination that there is no practicable alternative for locating the project outside the flood zone. The proposed project will:

1) Enhance current recreational and outdoor options for the people of Cabo Rojo.

2) Provide recreation alternatives to low- and moderate-income communities surrounding the area.

3) Mitigate and minimize impacts on human health, public property, and floodplain and wetland values.

4) Have minimal adverse impacts on the floodplain and wetlands functions and values.

5) Improve existing site's conditions, and infrastructure.

6) Help to prevent further deterioration of the site and to improve traffic safety.

7) Improve tourism to the City of Cabo Rojo.

Step 7: Notify finding to the public and agencies.

A final notice published in the "Primera Hora" newspaper of Puerto Rico on March 1st, 2024, targeted local residents, including those in the floodplain and

wetland. The final notice detailed the reasons why the proposed activity must be located in the floodplain, a list of alternatives considered, and all mitigation measures taken to minimize adverse impacts and preserve natural and beneficial floodplain values. As required by regulation, the notice also included the name, proposed location and description of the activity, total number of floodplain acres involved, and the responsible entity contact for information as well as a website and the location and hours of the office at which a full description of the proposed action can be viewed. The notice was also sent to interested Federal, and State agencies to be interested in such notices. The required seven (7) calendar days were allowed for public comment. No comments were received. No comments were received, thus no opposition to the proposed project was expressed. Attachment 3 includes a copy of the public final notice.

Step 8: Implement the proposed action.

The municipality of Cabo Rojo will assure that this plan, as described above, is executed and necessary language will be included in all agreements with participating parties. The municipality of Cabo Rojo will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur no unnecessary risks are taken. The flood insurance requirement for the life of the property will be accomplished.

Attachment 1

Maps

Mapa Niveles de Inundación Base Recomendados



10/26/2023, 9:09:29 PM

Municipios Limite
1 PCT Cauce Mayor
Panel

Zona Inundable
A
AE
AO
A Costera
VE

1:4,514

0 0.04 0.07 0.14 mi
0 0.05 0.1 0.2 km

PRPB; FEMA, Maxar

Junta de Planificación, FEMA

Maxar | PRPB; FEMA | Junta de Planificación. Programa de Sistema de Información Geográfica |

National Flood Hazard Layer FIRMette

FEMA

67°10'42"W 18°1'47"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

67°10'5"W 18°1'13"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

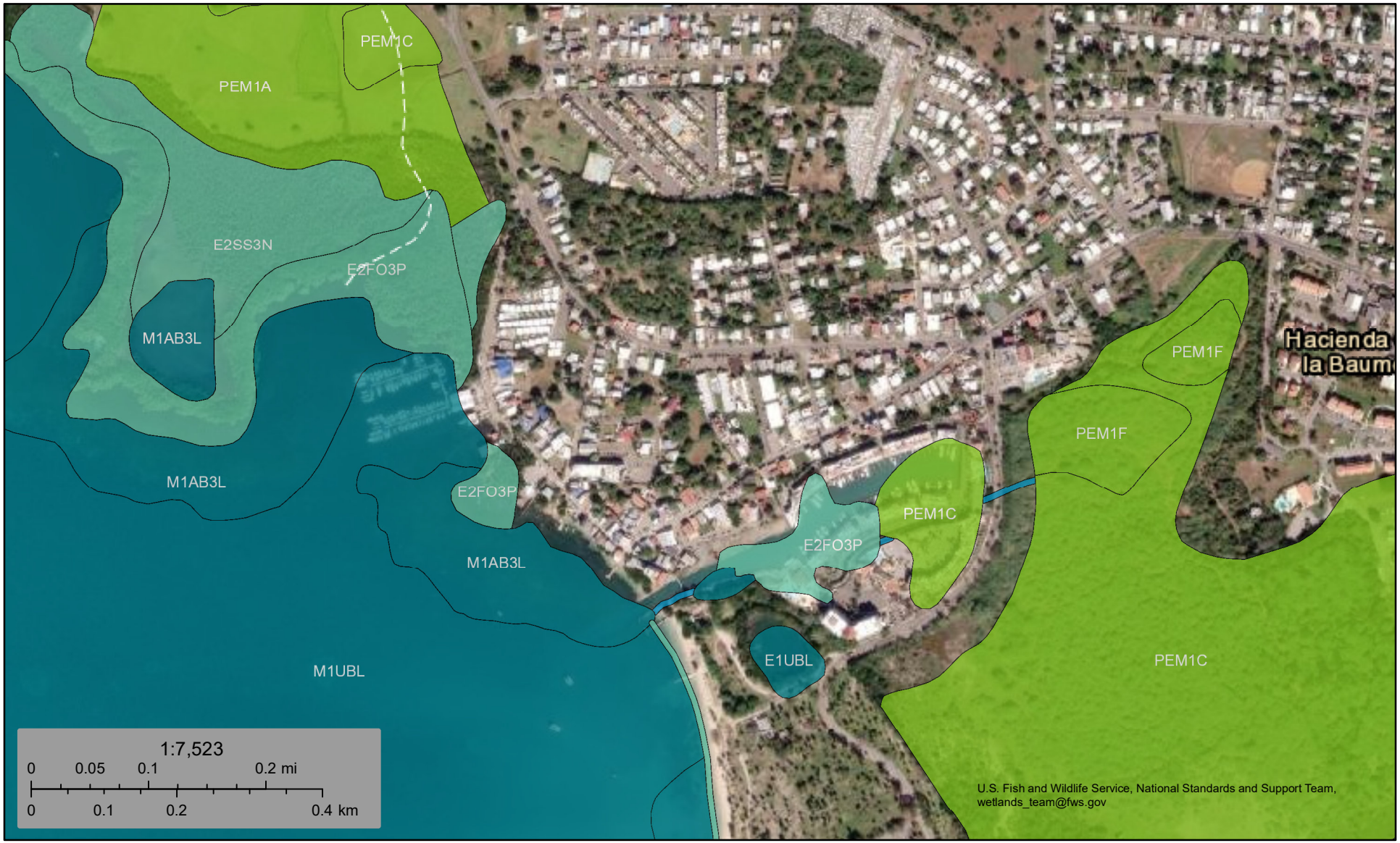
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/8/2023 at 3:56 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

U.S. Fish and Wildlife Service

National Wetlands Inventory

PR-CRP-000847



October 27, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Attachment 2

Step 2 Early Notice and Public Review of a Proposed

Activity in the 100-Year Floodplain

securing a note payable to NEW YORK MORTGAGE BANKERS, or its order, with yearly interests set at 6.125%, due on February 1st., 2035, appraised at $109,250.00, as per Deed #6, executed in San Juan on January 14th., 2005, before Notary Public Miguel A. Rivera Rosendo, recorded at page 111 of volume 1509 of Guaynabo, property #21313, 6th inscription. Senior Liens: NONE. Junior Liens: NONE. Potential bidders are advised to verify the extent of preferential liens with the holders thereof. It shall be understood that each bidder accepts as sufficient the title and that prior and preferential liens to the one being foreclosed upon, including but not limited to any property tax, liens, (express, tacit, implied or legal), shall continue in effect, it being understood further that the successful bidder accepts them and is subrogated in the responsibility for the same and that the bid price shall not be applied toward their cancellation. The present property will be acquired free and clear of all junior liens. WHEREAS: For the purpose of the first judicial sale, the minimum bid agreed upon by the parties in the modification deed will be $109,250.00, for the property and no lower offers will be accepted. Should the first judicial sale of the above-described property be unsuccessful, then the minimum bid for the property on the second judicial sale will be two-thirds the amount of the minimum bid for the first judicial sale, or $72,833.33. The minimum bid for a third judicial sale, if the same is necessary, will be one-half of the minimum bid agreed upon the parties in the aforementioned mortgage deed, or $54,625.00. (Known in the Spanish language as: "Ley del Registro de la Propiedad Inmobiliaria del Estado Libre Asociado de Puerto Rico", 2015 Puerto Rico Laws Act 210 (H.B. 2479), Article 104, as amended). WHEREAS: Said sale to be made by the appointed Special Master is subject to confirmation by the United States District Court for the District of Puerto Rico and the deed of conveyance and possession to the property will be executed and delivered only after such confirmation. NOW THEREFORE, public notice is hereby given that the appointed Special Master, pursuant to the provisions of the Judgment herein before referred to, will, on the 16th day of January 2024, at 2:00 pm, in front of Courtroom 1, First Floor of the United States District Court, Federal Building, Chardon Avenue, Hato Rey, Puerto Rico, in accordance with 28 U.S.C. § 2001, sell at public auction to the highest bidder, the property described herein. The proceeds of said sale are to be applied in the manner and form provided by the Court's Judgment. Should the first judicial sale set hereinabove be unsuccessful, the second judicial sale of the property described in this Notice will be held on the 23rd day of January 2024, at 2:00 pm, in the United States District Court located at the address indicated above. Should the second judicial sale set hereinabove be unsuccessful, the third judicial sale of the property described in this Notice will be held on the 30th day of January 2024, at 2:00 pm, in the United States District Court located at the address indicated above. In San Juan, Puerto Rico, this 11th, day of December 2023. F/ Beatriz Vázquez Solís Appointed Special Master

LB-2340 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE CAGUAS SALA SUPERIOR DE CAGUAS SALÓN DE SESIONES SALÓN 704

COOPERATIVA DE AHORRO Y CREDITO DE CAGUAS
Demandante
v.
SANDRA MAYMI HERNANDEZ
Demandado(a)

Caso Núm.: CG2023CV01891
Sobre: COBRO DE DINERO - ORDINARIO JOSÉ A. CANDELARIO LAJARA JCANDELARIOLAJARA@GMAIL.COM MARA M. CARTAGENA COLÓN ABOGADACARTAGENACOLON@GMAILCOM NOTIFICACIÓN DE SENTENCIA POR EDICTO (Nombre de las partes que se le notifican la sentencia por edicto) A: SANDRA MAYMI HERNANDEZ - PO BOX 433 CAGUAS PR 00726-0433 EL SECRETARIO(A) que suscribe le notifica a usted que el 28 DE NOVIEMBRE DE 2023, este Tribunal ha dictado Sentencia, Sentencia Parcial o Resolución en este caso, que ha sido debidamente registrada y archivada en autos donde podrá usted enterarse detalladamente de los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la Isla de Puerto Rico, dentro de los 10 días siguientes a su notificación. Y, siendo o representando usted una parte en el procedimiento sujeta a los términos de la Sentencia, Sentencia Parcial o Resolución, de la cual puede establecerse recurso de revisión o apelación dentro del término de 30 días contados a partir de la publicación por edicto de esta notificación, dirijo a usted esta notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivada en los autos de este caso, con fecha de 01 de DICIEMBRE de 2023 En CAGUAS , Puerto Rico, el 01 de DICIEMBRE de 2023 LISILDA MARTINEZ AGOSTO Nombre del (de la) Secretario(a) f/GLORIMAR RIVERA RIVERA Nombre y Firma del (de la) Secretario(a) Auxiliar del Tribunal

>ESQUELAS

El Señorial Memorial Park & Funeral Home
San Juan • 787-755-6677
www.senorialmemorialpark.com

Las Mercedes Memorial Park
Ponce • 787-848-0286
www.lasmercedesmemorialpark.com

Camposanto de Cristo Resucitado
Ponce • 787-841-4444
www.camposantomemorialpark.com

Los Jardines Memorial Park
Isabela • 787-872-5085
www.losjardinesmemorialpark.com

Monte Cristo Memorial Park
Aguadilla • 787-882-3113
www.montecristomemorialpark.com

Valle de los Sueños Memorial Park
Manatí • 787-854-5810
www.valledelossuenosmemorialpark.com

Pepino Memorial Park & Funeral Home
San Sebastián • 787-896-3535
www.pepinomemorial.com

Panteones para entrega inmediata
Plan de Arreglos Previos

CEMENTERIO LA SANTA CRUZ
Carretera 129 Km 3.9
(De Arecibo a Lares)
Arecibo, Puerto Rico
(787) 878-6565 / 878-1156

FUNERARIA Y CAPILLAS GONZALEZ
Arecibo, Puerto Rico
• Funerales Tradicionales
• Cremaciones
• Pre-Arreglos Funerales
(787) 878-0464
(787) 878-5920



ORACIÓN AL DIVINO NIÑO

Rece siete Padrenuestros, 7 Avemarías y 7 Credos durante 7 días. Pida un imposible y será favorecido, aún sin tener fe. Mande a publicar al séptimo día.

Llama a Clasificados de **EL VOCERO 787-724 -1485**

aviso público

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un Valle Inundable de 100 Años

Rehabilitación y Embellecimiento del Poblado Boquerón
PR-CRP-000847

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) ha determinado que la siguiente acción propuesta bajo el Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), números de subvención B-17-DM-72-0001 y B-18-DP-72-0001, se encuentra en un valle inundable de 100 años. Vivienda estará evaluando e identificando alternativas prácticas para realizar la acción propuesta y el impacto potencial en el valle de inundación debido a la acción propuesta, según establecido por la Orden Ejecutiva 11988, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 Subparte C - Procedimientos para Tomar Determinaciones sobre el Manejo de Llanuras Aluviales y la Protección de Humedales. El proyecto propuesto, **PR-CRP-000847**, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en el poblado Boquerón, calle Muñoz Rivera, Cabo Rojo, PR 00623. La actividad propuesta está situada en un tipo de zona de inundación combinada, ubicada en un valle inundable de 100 años, zona de inundación A y zona de inundación AE. El área del proyecto se encuentra en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), como se indica en el Nivel de Inundación Base Recomendado de FEMA Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com).

El proyecto propuesto consiste en los siguientes elementos: la rehabilitación de aceras y encintados; reemplazo, rehabilitación y/o instalación de nuevas luminarias y postes; rehabilitación de la plaza principal del poblado de Boquerón (plaza Margarita Pabón); y debe incluir algunas áreas con mosaicos y/o murales típicos del paisaje de Cabo Rojo dentro de esta área. Incluye la instalación de un rótulo emblemático de Cabo Rojo en la plaza Margarita Pabón, restauración paisajística, mejora y reverdecimiento de espacios, repavimentación de la calle Hermógenes Pou, calle Gil Bouyet y ambas calles de entrada al poblado. Además, incluye la eliminación de barreras arquitectónicas que afectan a las personas con discapacidad para el cumplimiento con la Ley de Americanos con Discapacidades (ADA, por sus siglas en inglés), construcción de área de bancos y la instalación de un monumento con una placa a nombre de Margarita Pabón y su historia.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben tener la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer ubicaciones alternas fuera del valle inundable, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información sobre valles inundables puede facilitar y mejorar los esfuerzos federales por reducir los riesgos e impactos asociados con la ocupación y alteración de estas zonas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en valles inundables, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes de 27 de diciembre de 2023. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Pedro de León-Rodríguez, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a. m. a 4:00 p. m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787) 274-2527, ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 12 de diciembre de 2023

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

DEPARTAMENTO DE LA VIVIENDA

public notice

Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain

Rehabilitation and Beautification of the Boquerón Town
PR-CRP-000847

To: All Interested Parties, Groups, and Individuals

This is to give notice that Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the Community Development Block Grant – Disaster Recovery (CDBG-DR), City Revitalization Program, grant numbers B-17-DM-72-0001 and B-18-DP-72-0001, is located in a 100-year floodplain. PRDOH will be identifying and evaluating practicable alternatives to locate the action in the floodplain and the potential impacts on the floodplain from the proposed action, as required by Executive Order 11988, in accordance with HUD regulations set forth in 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, **PR-CRP-000847**, is within a municipality with structures damaged by hurricanes Irma and María and is located on Boquerón Town, Muñoz Rivera Street, Cabo Rojo, PR 00623; coordinates 18.02496, -67.17317, and with total dimensions of 8.94 acres. The proposed activity is situated in a combined flood zone type, located in a 100-year floodplain, flood zone A and flood zone AE. The floodplains in the project area can be found at Advisory Base Flood Elevation (ABFE), as indicated on the FEMA Puerto Rico Advisory Base Flood Elevation at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com).

The proposed project consists of the following items: rehabilitation of sidewalks and tapings, replacement, rehabilitation and/or installation of new luminaires and poles, rehabilitation of the main square of the town of Boquerón (Margarita Pabón Square), and must include some areas with mosaics and/or murals typical of the landscape of Cabo Rojo within this area. It includes the installation of an emblematic sign of Cabo Rojo in the Margarita Pabón Square, landscape restoration, improvement and greening of spaces, resurfacing of the Hermógenes Pou Street, Gil Bouyet Street, and both entrance streets to the town. Also, the elimination of architectural barriers that affect people with disabilities in compliance with the Americans with Disabilities Act (ADA), construction of a bench area, and installation of monument with a plaque in the name of Margarita Pabón and her history.

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the floodplain, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about floodplains can facilitate and enhance federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in floodplains, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before December 27, 2023. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Pedro de León-Rodríguez, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 a. m. to 4:00 p. m. at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787) 274-2527, ext. 4320. In the alternative, comments may also be sent to PRDOH by email to environmentcdbg@vivienda.pr.gov.

Date: December 12, 2023

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

DEPARTMENT OF HOUSING

Andrea Curbelo-Marty

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Tuesday, December 12, 2023 2:33 PM
To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; Edwin_muniz@fws.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1 @jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject: Public Notice – Early Notice and Public Review of a Proposed Activity in the 100-Year Floodplain_PRDOH Case PR-CRP-000847
Attachments: Early Notice_El Vocero_PR-CRP-000847.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Early Notice and Public Review of a Proposed Activity in the 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Rehabilitación y Embellecimiento del Poblado Boquerón* (PR-CRP-000847). The Early Notice was published in the *El Vocero* newspaper of Puerto Rico on December 12, 2023.

Respectfully,

Permits and Environmental Compliance Division
Office of Disaster Recovery
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: www.cdbg-dr.pr.gov

DEPARTAMENTO DE LA VIVIENDA

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Andrea Curbelo-Marty

From: Kenneth M. Garcia-De Leon
Sent: Thursday, December 28, 2023 4:50 PM
To: environmentcdbg
Subject: RE: Comentarios - Aviso Preliminar PR-CRP-000847

Saludos

Por correo postal no llegaron comentarios para mencionado proyecto.

Atentamente

Kenneth M. García De León
Especialista en Control de Documentos / Operaciones
Oficina Recuperación de Desastres
kgarcia@vivienda.pr.gov|787.274.2527 Ext. 4013
Visitanos: recuperacion.pr.gov
Contactanos: infocdbg@vivienda.pr.gov

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From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Thursday, December 28, 2023 3:26 PM
To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>
Subject: Comentarios - Aviso Preliminar PR-CRP-000847

Saludos Kenneth,

Con respecto a la publicación del Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable de 100 años (Paso 2) para el proyecto **Rehabilitación y Embellecimiento del Poblado Boquerón (PR-CRP-000506)**, ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

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December 28, 2023

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Rehabilitación y Embellecimiento del Poblado Boquerón* (PR-CRP-000847), as part of the CDBG-DR City Revitalization Program. The Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain was published in the *El Vocero* newspaper of Puerto Rico on December 12, 2023, with a comment period that concluded on December 27, 2023.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachment 3

Step 7 Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland

aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años y humedal

Rehabilitación y Embellecimiento del Poblado Boquerón
PR-CRP-000847

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda) completó una evaluación según establece la Orden Ejecutiva 11988/11990, de acuerdo con los reglamentos de HUD en 24 CFR 55.20 Subparte C - Procedimientos para hacer determinaciones sobre el manejo del valle inundable y la protección de humedales. La actividad está subvencionada con fondos del Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), número de subvención B-17-DM-72-0001, B-18-DP-72-0001 y B-19-DP-78-0002. El proyecto propuesto, **PR-CRP-000847**, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en el Poblado Boquerón, calle Muñoz Rivera, Cabo Rojo, PR 00623; coordenadas centrales 18.02496, -67.17317 y una cabida total de 8.94 acres. El proyecto consiste en los siguientes elementos: rehabilitación de aceras y encintados, reemplazo, rehabilitación y/o instalación de nuevas luminarias y postes, rehabilitación de la plaza principal del Poblado Boquerón (Plaza Margarita Pabón) y debe incluir algunas áreas con mosaicos y/o murales típicos del paisaje de Cabo Rojo dentro de esta área. Además, incluirá la instalación de un rótulo emblemático de Cabo Rojo en la Plaza Margarita Pabón, restauración paisajística, mejora y reverdecimiento de espacios, y repavimentación de las calles Hermógenes Pou y Gil Bouyet y ambas calles de entrada al Poblado. Adicionalmente, la eliminación de barreras arquitectónicas que afectan a las personas con discapacidad para el cumplimiento con la Ley para americanos con Discapacidades (ADA, por sus siglas en inglés), construcción de área de bancos, y la instalación de monumento con una placa a nombre de Margarita Pabón y su historia. La actividad propuesta con dimensiones totales de 8.94 acres, está situada en zonas combinadas en un valle inundable de 100 años, 0.03 acres en una zona de inundación AE y 0.09 acres en una zona de inundación A, y 8.82 acres fuera del valle inundable El área del proyecto se encuentra en el mapa de niveles de inundación base (ABFE, por sus siglas en inglés), cómo se indica en el Nivel de Inundación Base Recomendado de FEMA para Puerto Rico en Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). La actividad del proyecto está adyacente al humedal marino y se encuentra en la página de National Wetlands Inventory en https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.

Vivienda ha considerado las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y preservar los valores naturales y beneficiosos: (1) ubicar el proyecto dentro del valle inundable, adyacente a un humedal estuarino y marino, de acuerdo con la zonificación, (2) ubicar el proyecto fuera del valle inundable y (3) no tomar ninguna medida. La alternativa 1 se considera una opción viable ya que el proyecto no excederá la huella desarrollada existente y mantendrá el uso actual del área. El proponente considera que el proyecto no tendrá un impacto significativo en el comportamiento del agua de escorrentía durante eventos climáticos ni afectará el humedal estuarino y marino. Las alternativas 2 y 3 no son factibles ya que la construcción, necesaria para reemplazar las instalaciones recreativas y deportivas para la comunidad, es específica del sitio. El terreno del proyecto se encuentra dentro del área poblada. Las emisiones fugitivas serán controladas durante la construcción del proyecto. El uso propuesto está en armonía con el área de desarrollo circundante.

Vivienda reevaluó las alternativas para construir en el valle inundable y humedal, y determinó que no cuenta con alternativas prácticas. La documentación ambiental que evidencia el cumplimiento de los pasos 3 a 6 de la Orden Ejecutiva 11988/11990, está disponible para inspección, revisión y reproducción de parte del público, de ser solicitado, en el horario y lugar indicado en el último párrafo sobre recibo de comentarios de este aviso.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el valle inundable/humedal y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser una importante herramienta de educación pública. La divulgación de información y solicitud de comentarios sobre el valle inundable/humedal puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el valle inundable/humedal, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 8 de marzo de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Pedro de León-Rodríguez, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a.m. a 4:00 p.m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787)274-2527 ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 1 de marzo de 2024

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

Autorizado por la Oficina del Contralor Electoral OCE-SA-2023-00076

public notice

Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland

Rehabilitación y Embellecimiento del Poblado Boquerón
PR-CRP-000847

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by the Executive Order 11988/11990, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the Community Development Block Grant – Disaster Recovery (CDBG-DR), City Revitalization Program, Grant number B-17-DM-72-0001, B-18-DP-72-0001 and B-19-DP-78-0002. The proposed project, **PR-CRP-000847**, is within a municipality with structures damaged by Hurricanes Irma and María, and it's located at Poblado Boquerón, Muñoz Rivera Street, Cabo Rojo, PR 00623; central coordinates 18.02496, -67.17317 and total dimensions of 8.94 acres. The project consists of the following items: rehabilitation of sidewalks and tapings, replacement, rehabilitation and/or installation of new luminaires and poles, rehabilitation of the main plaza at Poblado Boquerón (Margarita Pabón Square) and must include some areas with mosaics and/or murals typical of the landscape of Cabo Rojo within this area. Also, it will include the installation of an emblematic sign of Cabo Rojo in the Margarita Pabón Square, landscape restoration, improvement and greening of spaces, resurfacing of the Hermógenes Pou Street, Gil Bouyet Street and both entrance streets to the town. Additionally, the elimination of architectural barriers that affect people with disabilities in compliance with the Americans with Disabilities Act (ADA), the construction of bench area, and the installation of monument with a plaque in the name of Margarita Pabón and her history. The proposed activity with total dimensions of 8.94 acres, is situated in combined zones in a 100-year floodplain, 0.03 acres are located in a flood zone AE and 0.09 acres are located in a flood zone A, and 8.82 acres are outside of the floodplain. The floodplain in the project area can be found at the Advisory Base Flood Elevation Map (ABFE), as indicated on the FEMA Advisory Base Flood Elevation for Puerto Rico at Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com). The project activity is adjacent to the marine wetland and the area can be found at National Wetlands Inventory at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1) locate the project within the floodplain, adjacent to an estuarine and marine wetland, according to zoning, (2) locate the project outside of the floodplain, and (3) take no action. Alternative 1 is considered a viable option since the project will not exceed the existing developed footprint and will maintain the present use of the area. The proponent considers that the project will not have a significant impact on the actual runoff water behavior during weather events nor will impact the estuarine and marine wetland. Alternatives 2 and 3 are not feasible since the needed construction for replacement of recreational area for the community is site specific. The project land lies within the populated urban area. Fugitive emissions will be controlled during the construction of the project. The proposed use is in harmony with the surrounding developments area.

PRDOH has reevaluated the alternatives to building in the floodplain and wetland, and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of 24 Executive Order 11988/11990 are available for public inspection, review and copying upon request at the times and location delineated in the last paragraph of this notice for receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain/wetland and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about the floodplain/wetland can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the floodplain/wetland, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before March 8, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Pedro de León-Rodríguez, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787)274-2527 ext. 4320. In the alternative, comments may also be sent to PRDOH by email at environmentcdbg@vivienda.pr.gov.

Date: March 1, 2024

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

Authorized by the Office of the Electoral Comptroller OCE-SA-2023-00076

HOSPITAL SAN CARLOS BORROMEO
PO BOX 68 • CALLE CONCEPCION VERA AYALA #550S
MOCA, PR 00676 • TEL. 787-877-8000

El Hospital San Carlos Inc. anuncia a su comunidad de pacientes del área noroeste del país el cierre temporero de la Sala de Partos de la Institución. Esta situación adviene por la falta de médicos obstetras que puedan realizar partos en nuestro Hospital. Sirva la presente para cumplir con el requisito establecido en el Artículo 11 del Reglamento 7617 de 21 de noviembre de 2008, según enmendado, en los trámites relacionados a la solicitud de CNC de cierre temporero de servicios.

Estado Libre Asociado de Puerto Rico
Gobierno Municipal de Isabela
OFICINA DE SECRETARIA MUNICIPAL
JUNTA DE SUBASTAS

AVISO DE SUBASTAS

La Junta de Subastas del Municipio de Isabela recibirá propuestas en sobres cerrados y sellados en original para la siguiente subasta. Se requiere que todos los documentos, oferta económica y anejos se entreguen también en formato digital, específicamente en **"pendrive"**.

Número y Título de la Subasta	SP-2024-14: ADQUISICIÓN DE EQUIPOS OPERACIONALES PARA EL PROGRAMA DE RECICLAJE DEL MUNICIPIO DE ISABELA
Fecha de Reunión Pre-Subasta	martes, 12 de marzo de 2024
Fecha de Apertura	jueves, 21 de marzo de 2024
Lugar de la reunión	Salón Messaní, Anfiteatro Justo Méndez Cabrera
Hora	1:30 p.m.
Costo del Pliego	$250.00 (No Reembolsables)

COSTO DE PLIEGO Y ENTREGA DE DOCUMENTOS:
El costo del pliego de la subasta identificada se puede efectuar en efectivo, cheque oficial o certificado, giro postal o bancario a nombre del Municipio de Isabela. El pago se realizará en la Oficina de Rentas Internas Municipal (anexo Casa Alcaldía) y la entrega del pliego se realizará en la Oficina de Secretaría Municipal (Casa Alcaldía), localizados en la Calle Corchado #75 de Isabela. El horario para la compra del pliego y para el recogido de los mismos será de **lunes a viernes de 8:30 a.m. a 3:00 p.m. y estarán disponibles desde la publicación de este aviso hasta el miércoles, 20 de marzo de 2024 a las 3:00 p.m.**

FIANZA DE SUBASTA:
Para dichas subastas los licitadores deberán someter, junto con su propuesta y dentro del sobre cerrado y sellado, una **fianza de licitación (Bid Bond) de doscientos cincuenta dólares ($250.00).** Dicha fianza se puede efectuar en efectivo, cheque oficial o certificado, giro postal o bancario a nombre del Municipio de Isabela.

PROCESO GENERAL DE LAS SUBASTAS
El martes, 12 de marzo de 2024 se llevará a cabo la reunión pre-subasta. No se permitirá la compra de pliegos después de la fecha y hora fijada en este aviso. El jueves, 21 de marzo de 2024, se llevará a cabo la apertura de sobres en la hora establecida. No se aceptarán sobres (licitaciones) posterior a la fecha y hora pautada. Una vez comience el proceso, no se permitirá la entrada de persona alguna. Los licitadores podrán entregar sus propuestas antes de la celebración de la subasta en la Oficina de Secretaría Municipal (Casa Alcaldía) o a la mano en el día y hora pautado de la subasta.

La Junta de Subastas del Municipio de Isabela, se reserva el derecho de aceptar o rechazar todos o cualquiera de las licitaciones y adjudicar la buena pro en beneficio de los mejores intereses del Municipio Isabela tomando en consideración otros factores que no sean sólo el precio. Igualmente, se reserva el derecho de adjudicar total o parcialmente la misma.

En Isabela, Puerto Rico, hoy día 1 de marzo de 2024. Promulgado de acuerdo con la Ley núm. 107 de 14 de agosto de 2020, según enmendada.

Javier I. Gutiérrez Meléndez
Presidente
Junta de Subastas

Glenda L. Morales Cruz
Secretaria
Junta de Subastas

Autorizado por la Oficina del Contralor Electoral OCE-SA-2024-01697

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Andrea Curbelo-Marty

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Monday, March 4, 2024 10:50 AM
To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; Lourdes_Mena@fws.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1 @jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject: Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland_PRDOH Case PR-CRP-000847
Attachments: Final Notice_Primera Hora_PR-CRP-000847.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Rehabilitación y Embellecimiento del Poblado Boquerón* (PR-CRP-000847). The Final Notice was published in the *Primera Hora* newspaper of Puerto Rico on March 1, 2024.

Respectfully,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

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Andrea Curbelo-Marty

From: Kenneth M. Garcia-De Leon
Sent: Tuesday, March 12, 2024 9:51 AM
To: environmentcdbg
Subject: RE: Comentarios - Aviso Final PR-CRP-000847

Saludos:

Por correo postal no legaron comentarios para mencionado proyecto.

Atentamente,

Kenneth M. García De León
Especialista en Control de Documentos / Operaciones
Oficina Recuperación de Desastres
kgarcia@vivienda.pr.gov|787.274.2527 Ext. 4013
Visitanos: recuperacion.pr.gov
Contactanos: infocdbg@vivienda.pr.gov

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From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Tuesday, March 12, 2024 9:27 AM
To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>
Subject: Comentarios - Aviso Final PR-CRP-000847

Saludos Kenneth,

Con respecto a la publicación del Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable de 100 años y humedal (Paso 7) para el proyecto **Rehabilitación y Embellecimiento del Poblado Boquerón (PR-CRP-000847)** ¿habrá llegado algún comentario a través del correo postal? De ser así, por favor nos lo hace llegar.

Cordialmente,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

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Validation Letter

March 12, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Rehabilitación y Embellecimiento del Poblado Boquerón* (PR-CRP-000847), as part of the CDBG-DR City Revitalization Program. The Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland was published in the *Primera Hora* newspaper of Puerto Rico on March 1, 2024, with a comment period that concluded on March 8, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachment F

Historic Preservation

OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
GOBIERNO DE PUERTO RICO

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Monday, March 31, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-07-09-24-01 PR-CRP-000847 (Cabo Rojo), Rehabilitación y Embellecimiento del Poblado Boquerón

Dear Ms. Poche,

We have reviewed the archaeological monitoring plan, dated February 2025, prepared for the above referenced project. The plan is deemed acceptable.

If you have any questions regarding our comments, please do not hesitate to contact our Office.
Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

PUERTO RICO DEPARTMENT OF HOUSING - CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CRP)** **ARCHEOLOGICAL MONITORING PLAN**	
SUBRECIPIENT: Municipality of Cabo Rojo	**PROJECT ID:** PR-CRP-000847
PROJECT NAME: Rehabilitación y Embellecimiento del Poblado Boquerón	**SHPO ID:** SHPO-CF-07-09-24-01
LOCATION: Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets (State Road PR-101), Km 18.6 to Km 19.7, Cabo Rojo PR 00622	
COORDINATES: 18.024959, -67.173166 (Margarita Pabón Public Plaza); 18.027089, -67.169173 (PR-101 Km 18.6 and PR-307 Intersection/East Entrance to Boquerón Town); 18.028584, -67.174662 (PR-101 Km 19.7 and PR-307 Intersection/North Entrance to Boquerón Town)	**TPID (CADASTER):** (Número de Catastro)**:** 380-013-010-01

TYPE OF ACTIVITY: ☒ **SUBSTANTIAL REPAIR (RECONSTRUCTION)** ☐ **NEW CONSTRUCTION**	**CONSTRUCTION DATE:** ca. 1950 **PROPERTY AREA (SIZE): (**acres)**:** 4.23
QUALIFIED ARCHEOLOGIST (NAME): Victor Oppenheimer Rodriguez, SOI. Partially edited by Sharon Meléndez Ortiz, Horne	**MONTH/YEAR PREPARED**: February 2025



This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009. The plan prepared by Victor Oppenheimer Rodriguez, who meets the Professional Qualifications Standards set forth in 36 CFR Part 61.

I. OVERVIEW/PREAMBLE

The Municipality of Cabo Rojo was approved Community Development Block Grant disaster recovery funds financed by the Federal Department of Housing and Urban Development in the aftermath of damages received by the 2017 Hurricanes Irma and Maria. An Agreement was established with the Puerto Rico Department of Housing (PRDOH) for the City Revitalization Program funds as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Cabo Rojo was approved to rehabilitate and renovate "Rehabilitación y Embellecimiento del Poblado Boquerón" and strategically restore it as a resilience area for the community, while preserving the historic development of the space and of the Municipality of Cabo Rojo. The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated August 2,2024, concurred with a decision of No Adverse Effect for this undertaking, conditioned to the implementation of an archaeological monitoring during all ground disturbing activities.

The undertaking will repair damages caused by hurricanes Irma and Maria and will improve the Margarita Pabón Square, sidewalks and curbs, lighting, and landscaping. Additionally, a new emblematic sign and memorial plaque will be installed in the main square. The project will be limited to approximately 0.36 miles from north to south, limited to the north by the José de Diego Street (State Road PR-101) and State Road PR-307 intersection and to the south by and a wooden deck overlooking Caño Boquilla, and 0.43 miles from west to east, limited to the west by the Club Náutico de Boquerón entrance on José de Diego Street (State Road PR-101) and to the east by the Luis Muñoz Rivera Street (State Road PR- 101), State Road PR-307, and Parque Nacional Avenue intersection. one mile of paved roadway, including José de Diego Street (State Road PR-101) running southeast from Estación Street (State Road PR-307) to Margarita Pabón Public Plaza at Boquerón Town, Luis Muñoz Rivera Street (State Road PR-101) running southwest from State Road PR-307 to Margarita Pabón Public Plaza, Gil Bouyet Street forming a rectangle north of Margarita Pabón Public Plaza, Barbosa Street running southeast from Margarita Pabón Public Plaza, and Hermógenes Pou Street running northeast from Barbosa Street to the entrance to Boquerón Beach Villas with its private marina.

The indirect APE is the viewshed of the project, which is the town of Boquerón. Nautical clubs, local restaurants, beach clubs, and souvenir shops concentrate around the Margarita Pabón Public Plaza and along José de Diego Street (State Road PR-101) to the west. For the most part, short-term rentals and private residences are found along Luis Muñoz Rivera Street (State Road PR-101) to the east of the Margarita Pabón Public Plaza and to the north on smaller streets such as Severiano Carlos Street and Gil Bouyet Street and will not have an affect on othersurrounding public space.

Objectives: This archaeological monitoring plan aims to: (1) institute measures to prevent indirect adverse effects to known historical resources; (2) implement the protocol to be followed in archaeological monitoring; (3) establish the procedure to be followed if previously

unknown resources are identified; (4) set up the procedure to be followed if there are any unexpected or previously unanticipated adverse effects; (5) detect, assess and keep record of archaeological resources during project development; (6) retrieve as much archaeological information as possible during excavation and construction; (7) to preserve and enhance the value of the archaeological resources located and documented; and (8) if the archaeological resource cannot be preserved in situ, to conserve it through documentation (preservation by record).

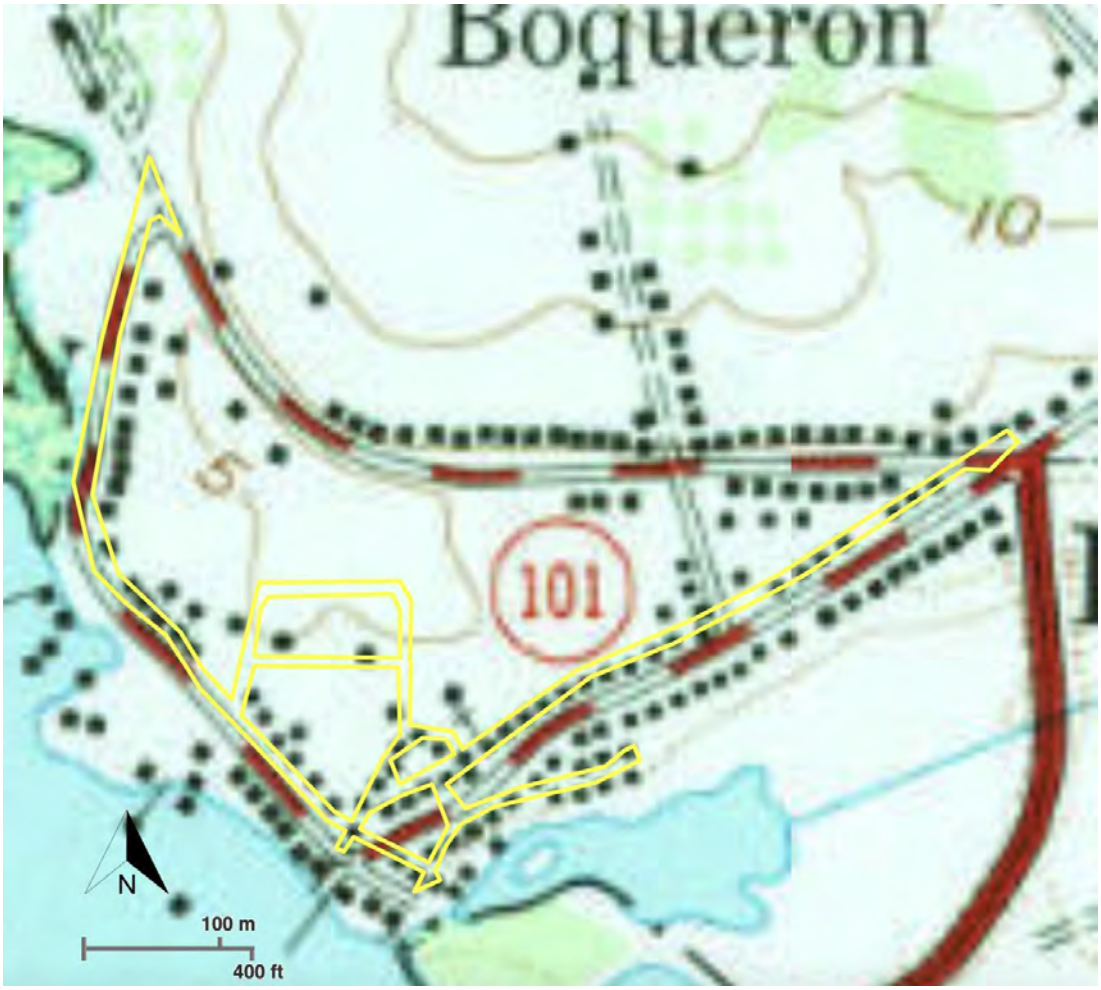


Figure 1: Project location (Taken from Section 106, Vega 2023: 29)

This scope of work is divided into six (6) sections and two (2) appendix. The section following this preamble discusses the proposed construction works. The third section includes a brief description of the historic properties located within the APE and of the archaeological potential of the area. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan and the last section includes the references cited. The plan closes with an appendix with a model of a monitoring daily activity sheet (Appendix A) and SHPO letter (Appendix B):

- Overview/Preamble: An introductory statement that outlines the purpose and guiding principles of this document.
- Project Description: The proposed construction activities and scope of work.
- Historic Properties within the APE: A summary of the historic properties and areas of archaeological potential effects (APEs).
- Archaeological Monitoring Procedure: Details of the archaeological monitoring procedure to be executed before, during and after construction.
- Professional Qualifications: An archeologist monitor in compliance with the qualifications of the Secretary of the Interior Standard (SOI).
- Cited References: A list of cited references, including an Appendix (A) with a *Monitoring Daily Activity Shee*t template and Appendix (B) SHPO letter.

II. PROJECT DESCRIPTION:

The information below was taken from the Section 106 NHPA Effect Determination Form completed by Archaeologist Jesus E. Vega, Ph.D. in 2023 (revised in 2024).

The Municipality of Cabo Rojo proposes to revitalize the town of Boquerón, a popular destination in the southwest coast of Puerto Rico for locals and tourists alike. The project will focus on improving state and municipal streets, sidewalks, curbs, and public areas. The proposed improvements are as follows:

- Rehabilitation of sidewalks and curbs of four (4) municipal streets, Hermógenes Pou Street, Barbosa Street, Severiano Carlos Street, and Gil Bouyet Street, and two (2) state roads, José de Diego Street and Luis Muñoz Rivera Street (both segments of State Road PR-101).
- Replacement, rehabilitation, and installation of new luminaries and poles on Margarita Pabon's Main Square. The anticipated maximum excavation depth for this activity is approximately 6'-0".
- Installation of the *Boquerón* emblematic letter sign at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Installation of a memorial plaque geometry at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Landscape restoration, enhancement, new tree planters, and greening of selected spaces. The anticipated excavation depth for this activity is approximately 3'-0".
- Elimination of architectural barriers that affect disabled people, in compliance with ADA law, with applicable signs, and painting.
- Demolition of 300 square feet of concrete pavement and 15,236 square feet of plastic floor surface. These areas will be resurfaced with concrete at an anticipated maximum excavation depth for this activity of 18" at sidewalks and curbs.
- Plans or drawings of current conditions and demolition plans.

III. HISTORIC PROPERTIES WITHIN THE APE:

The information below was taken from the Section 106 NHPA Effect Determination Form completed by Archaeologist Jesus E. Vega, Ph.D. in 2023 (revised in 2024).

Area of Potential Effects (APE)

The direct APE for this project encompasses approximately one mile of paved roadway, including José de Diego Street (State Road PR-101) running southeast from Estación Street (State Road PR-307) to Margarita Pabón Public Plaza at Boquerón Town, Luis Muñoz Rivera Street (State Road PR-101) running southwest from State Road PR-307 to Margarita Pabón Public Plaza, Gil Bouyet Street forming a rectangle north of Margarita Pabón Public Plaza, Barbosa Street running southeast from Margarita Pabón Public Plaza, and Hermógenes Pou Street running northeast from Barbosa Street to the entrance to Boquerón Beach Villas with its private marina.

The direct APE measures approximately 0.36 miles from north to south, limited to the north by the José de Diego Street (State Road PR-101) and State Road PR-307 intersection and to the south by and a wooden deck overlooking Caño Boquilla, and 0.43 miles from west to east, limited to the west by the Club Nautico de Boquerón entrance on José de Diego Street (State Road PR-101) and to the east by the Luis Muñoz Rivera Street (State Road PR-101), State Road PR-307, and Parque Nacional Avenue intersection.

Eligible Historic Properties within the APE:

The following are eligible properties within the NRHP-eligible Poblado Boquerón Historic District. Please refer to (Vega 2023: 33-34) for architectural details, photographs and photograph keys, if necessary.

1. The Paradero building, or Serenity Ocean Hostel is a mid-twenty century, two-story high wood hostel with a gabled, corrugated metal sheet roof on Gil Bouyet Street.

2. Residence across the street from the Margarita Pabón Public Plaza is a concrete, one-story, single-family house with a hipped, corrugated metal sheet roof. The ornamental, metal tube columns in the front porch area help support the roof in this area of the house.

3. Residence on the corner of Luis Muñz Rivera St. and Gill Bouyet St. is a one-story, single-family house of wood, tongue, and groove construction with a gabled, corrugated metal sheet roof.

4. Residence #4 is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

5. Residence #5 is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

6. Residence #6 is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

7. Residence #7 is a 20th century, one-story wooden residence with concrete base and zinc roof; extension built toward rear of property; located on Luis Muñoz Rivera Street (State Road PR-101).

8. Residence #8 is a 20th century, one-story wooden residence with concrete base and zinc roof; located on Luis Muñoz Rivera Street (State Road PR-101).

9. Commercial building #9 is a 20th century, one-story concrete commercial structure; currently used by a local clinical laboratory named *Laboratorio Clínico Boquerón*; located on Luis Muñoz Rivera Street (State Road PR-101).

10. Panadería La Constancia is a 20th century, one-story brick bakery with a gabled, corrugated metal sheet roof and wood-carved *soles truncos*; located on Parque Street, outside Boquerón Town.

11. Hacienda Boquerón, also known as Hacienda la Baume, is a 19th century, steam-powered sugar mill originally established in 1842. Only a 50' high chimney remains, along with a remodeled house; located 100 yards south of Luis Muñoz Rivera Street (State Road PR-101).

Historical Context:

Cabo Rojo, situated in the southwestern corner of Puerto Rico, features a diverse geomorphology consisting of high-angle faults, low hills, quartz sand deposits, tidal flats, saline lagoons, mangrove forests, and eroded limestone cliffs underlain by basalt and volcanic rock. The region's archaeological record includes numerous pre-ceramic sites dating back over 3,000 years. Notably, Irving Rouse identified one of the first pre-ceramic cultures in Puerto Rico at the Coroso site in Cabo Rojo, which he initially classified as a shell midden. However, he later reassessed the site as modern due to its inland location. Subsequent research by Vega (1990, 1995) attributed the inland positioning of ancient pre-ceramic sites to tectonic uplift, with later ceramic sites situated closer to the coast. One such site, Punta Ostiones (CR0100006), was occupied until approximately 1,200 AD and was listed on the National Register of Historic Places (NRHP) in 2004.

In Boquerón Ward, the most prominent ceramic site is Conchero Villa Taína de Boquerón (CR0100005), a multi-component site containing Spanish historic materials dating from the late 17th to the mid-19th centuries. Excavated by Goodwin and Walker in 1975, the site now lies beneath the Villa Taína Condominium. Nearby, the Vega (1990) conducted excavations

at Boquerón de Mar, a pre-ceramic shell midden and lithic workshop located 0.87 km northeast of the APE. Though not formally reported in SHPO records, this site provides additional evidence of early human activity in the region.

The salinas, or salt works, of Boquerón Ward—including those along Bahía Boquerón, El Combate, Punta Águila, and Bahía Salinas—have long been a focal point for both prehistoric and historic settlement. Historical records indicate Spanish exploitation of these salt works as early as 1512. British attempts to seize control in 1585 and conflicts with settlers from Aguadilla and San Germán in 1769 underscore their economic and strategic importance. Additionally, Cabo Rojo's fertile land, relative isolation from San Juan, and access to anchorages made it a hub for British, French, and Dutch smugglers from the 16th to the 18th centuries. By the 19th century, the town became a center of pro-independence sentiment, with notable figures such as abolitionist Ramón Emeterio Betances.



Figure 2. 1775 sketch of the coast of Cabo Rojo by Juan de Survile. North is down. Project APE is highlighted in yellow (Source: Biblioteca Palacio Real de Madrid)(Vega 2023: 15)

By the early 20th century, Boquerón had established itself as a small but growing settlement. William F. Armstrong's 1910 survey documented a two-story general store and several small shops, while photographs from El Gráfico in 1912 captured early commercial activity in the town. The construction of a train station in 1913 marked the beginning of Boquerón's transformation into a tourism destination, with a population increase from 450 in 1935 to 530 by 1940. The establishment of a public beach in 1966 and the development of recreational marine infrastructure in subsequent decades solidified Boquerón's reputation as a coastal retreat.

Archaeological Potential

The APE encompasses a small tourist enclave built on previously cleared mangrove forest, an area with a high potential for impacting prehistoric and historic archaeological materials. In 1933, J.R. Montalvo Guenard and S.K. Lothrop documented a prehistoric site within Boquerón, later included in Yale University's Scientific Survey. Excavations conducted by Irving Rouse in 1937 at the Boquerón site (CR0100011) revealed a large shell midden with Cuevas and Ostiones ceramic sherds, as well as a child's burial at a depth of 40 cm. It was described by Rouse as an extensive site with 200 meters in diameter. This site now lies beneath the parking lot of the Boquemar Hotel at the junction of Gil Bouyet and Severiano Carlos Streets. A 2002 survey by Marisol J. Meléndez reported two out-of-context shell fragments in the adjacent parcel.

Additional sites in the vicinity include Cementerio de Boquerón al Sur (CR0100144), a pre-ceramic shell midden located south of the municipal cemetery, and a series of shell middens reported by Antonio Daubón Vidal along the south coast of Bahía de Boquerón. The presence of these sites highlights Boquerón's archaeological sensitivity, with potential for intact deposits even in disturbed areas.

A significant historic feature within the APE is the brick cistern known as Cisterna de Ladrillos (CR0200031), located northeast of the intersection of State Road PR-307 and Luis Muñoz Rivera Street. Similar cisterns may have once been constructed along the APE.

History of Use

Boquerón's origins as a 19th-century agricultural and fishing village saw its residents engaged in the production of sugar, corn, cotton, and hats. By 1910, most homes were wooden structures, clustered along Luis Muñoz Rivera Street (State Road PR-101). The town's sandy beaches, shaded by coconut palms, gradually attracted visitors, and by the 1960s, Boquerón had become a prime destination for recreational sailors and motorboaters. The growth of marine tourism led to the expansion of local piers, with the NOAA nautical charts from 1972 and 1984 reflecting this development. The construction of the Boquerón Marina and Vacation Resort in the 1990s further enhanced the town's appeal to tourists.

In the 21st century, Boquerón evolved into a hub for the LGBTQ+ community, hosting the annual Orgullo Boquerón Gay Parade in the Margarita Pabón Public Plaza. As the primary access point to Boquerón Beach, the town remains integral to ongoing municipal efforts to

develop the beach as a public resource. Many residential properties within the project area are currently utilized for short-term rentals, supporting both local and international tourism.

IV. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition and excavations. Those construction activities that do not entail excavations or earth movements do not require an archaeological monitor. However, if there are activities with heavy equipment taking place in the vicinity of historic buildings, there should be a monitor present to prevent accidents and indirect impacts accidents and indirect impacts.

A. Before Construction Begins

1. The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor). The GM shall notify the State Historic Preservation Office (SHPO) of the construction start date and the archaeology company charged with implementing this Plan.
2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.
4. The Monitor will document the historic properties (NRHP-listed and eligible) located within the project's area of potential effects by means of verbal descriptions and photographs. This documentation shall be included as an appendix to the first weekly report.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor. In the event of simultaneous excavations in different areas of the project, an archaeologist should be assigned to each area.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (see Appendix 1). These Forms will be attached to the final report as an appendix. These forms should be send weekly to the GM for review.

4. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-6 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.
5. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
6. If the identified archaeological remains are considered historically significant– i.e., complex structures, precolonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:
    a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains (in other words, an evaluation of significance and integrity).
    b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
    c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
    d. The GM shall notify the SHPO of the NRHP-eligibility determination.
        i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
        ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM

shall notify the SHPO, and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.

iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm), the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance and Regulation #8932. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).

7. If any additional construction activities are added or design changes are made after the project has begun, the CM and PM, prior to performing the work, shall inform the GM and the Monitor. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
8. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM, and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. The Monitor shall again document the historic properties located within the project's area of potential effects. The condition of the properties should be compared with those documented at the beginning of the project. This documentation shall be included in the final technical report.
4. A Technical Monitoring Report shall be prepared. This report shall include a description of the work performed, the construction activities that were archaeologically monitored, and documentation of unexpected finds, if any. It should also include final documentation of the

condition of the properties along with a comparison of the final condition of the structures to the initial condition.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA must be followed:

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO within twenty-four (24) hours of identifying human remains.

V. PROFESSIONAL QUALIFICATIONS:

The Monitor must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties.

The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology. In the case of hiring archaeologists and trained technicians to assist in archaeological monitoring, the Principal Investigator must be present for at least 25 percent of the duration of the fieldwork to supervise them.

VI. CITED REFERENCES:

Advisory Council on Historic Preservation

2009 ACHP recommendations of recovery of significant information from archaeological sites https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance.

Jesus Vega (Revised 2024)

2023 Puerto Rico 2017 Disaster Recovery, CDBG-DR Program.
City Revitalization Program (City-Rev).
Section 106 - NHPA Effect Determination Form.

National Park Service

"Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines [As Amended and Annotated] Professional Qualification Standards". https://www.nps.gov/history/local-law/arch_stnds_9.htm

"Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archeological Documentation". http://www.cr.nps.gov/local-law/arch_stnds_7.htm

Ingenium Professional Group

2024 100% Design Drawings. Rehabilitación y Embellecimiento del Poblado Boquerón, Municipality of Cabo Rojo, Puerto Rico. PR-CRP-000847.

VII. APPENDIX A:

	PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM PRDOH CDBG-DR PROGRAM ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location (Street Address):
City:	Project Coordinates:

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a
Work Hours:

Description of work performed by contractor and supervised by the Monitor:

	YES	NO
Was an archaeological remain documented during the day. If yes, include required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

-1-

Puerto Rico 2017 Disaster Recovery, CDBG-DR Program City Revitalization Program (City-Rev) Section 106 NHPA Effect Determination	
Project Name:	
Case ID:	City:
Project Coordinates:	

Site Photos	
Direction of Photo: **Description:**	
Direction of Photo: **Description:**	

APPENDIX B: Include Puerto Rico State Historic Preservation Office (PRSHPO) letters.

GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Friday, August 2, 2024

Lauren B Poche

269 Avenida Ponce de Leon, San Juan, PR, 00917

SHPO-CF-07-09-24-01 PR-CRP-000847 (Cabo Rojo), Rehabilitación y Embellecimiento del Poblado Boquerón

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

After a review of all the documentation, the PRSHPO agrees with your finding that the proposed project with the established conditions, will have no adverse effect upon historic properties:

1. Archaeological monitoring during ground disturbing activities.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MB

Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935
787.721.3737 oech.pr.gov

February 19, 2025

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Re: SHPO-CF-07-09-24-01- PR-CRP-000847, - Rehabilitación y Embellecimiento del Poblado Boquerón, Cabo Rojo, Puerto Rico – Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated August 2, 2024, in response to the submission of documentation for PR-CRP-000847, Rehabilitación y Embellecimiento del Poblado Boquerón project. The letter stated that after the review of all documentation the PRSHPO concurs with PRDOH's finding that the proposed project will have no adverse effect on historic properties for this undertaking conditioned to archaeological monitoring during ground disturbing activities for the project.

As such, we are submitting the requested Archaeological Monitoring Plan prepared by Archaeologist Victor Oppenheimer Rodriguez and edited by edited by Sharon Meléndez Ortiz. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking. Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Friday, August 2, 2024

Lauren B Poche

269 Avenida Ponce de Leon, San Juan, PR, 00917

SHPO-CF-07-09-24-01 PR-CRP-000847 (Cabo Rojo), Rehabilitación y Embellecimiento del Poblado Boquerón

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

After a review of all the documentation, the PRSHPO agrees with your finding that the proposed project with the established conditions, will have no adverse effect upon historic properties:

1. Archaeological monitoring during ground disturbing activities.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer
CARC/GMO/ MB

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

July 9, 2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000847 (SHPO-CF-06-04-24-21), Rehabilitación y Embellecimiento del Poblado Boquerón Project, Cabo Rojo, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional $8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH, we are submitting documentation for the proposed Rehabilitación y Embellecimiento del Poblado Boquerón Project. The proposed undertaking consists of rehabilitating four municipal and two state roads, including associated sidewalks and curbs, lighting, and landscaping. Additionally, a new emblematic sign and memorial plaque will be installed in the main square, and a circular Boquerón sign will be installed at the entrance of Poblado Boquerón. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 100% construction plans.

Based on the provided documentation, the Program has determined that the proposed undertaking will have no adverse effect upon historic properties, conditioned to archaeological monitoring during ground-disturbing activities. If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@horne.com.

Kindest regards,



Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
LBP/JCO

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination**	
Subrecipient: Municipality of Cabo Rojo	
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón	**Project ID:** PR-CRP-000847

Project Location: Boquerón Ward, Luis Muñoz Rivera Street and José de Diego Streets (State Road PR-101), Km 18.6 to Km 19.7, Cabo Rojo PR 00622	
Project Coordinates: 18.024959, -67.173166 (Margarita Pabón Public Plaza); 18.027089, -67.169173 (PR-101 Km 18.6 and PR-307 Intersection/East Entrance to Boquerón Town); 18.028584, -67.174662 (PR-101 Km 19.7 and PR-307 Intersection/North Entrance to Boquerón Town)	
TPID (Número de Catastro)**:** 380-013-010-01	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): ca. 1950	**Property Size** (acres)**:** 4.23

SOI-Qualified Architect/Architectural Historian: Noel F. Román Díaz, M.A.
Date Reviewed: August 21, 2023 / April 18, 2024 / May 16, 2024
SOI-Qualified Archaeologist: Jesus E. Vega, Ph.D.
Date Reviewed: August 24, 2023 (Revised on January 30, 2024; May 25, 2024)

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)

The Municipality of Cabo Rojo proposes to revitalize the town of Boquerón, a popular destination in the southwest coast of Puerto Rico for locals and tourists alike. The project will focus on improving state and municipal streets, sidewalks, curbs, and public areas. The proposed improvements are as follows:

- Repaving of four (4) municipal streets, Hermógenes Pou Street, Barbosa Street, Severiano Carlos Street, and Gil Bouyet Street, and two (2) state roads, José de Diego Street and Luis Muñoz Rivera Street (both segments of State Road PR-101), and rehabilitation of its sidewalks and curbs. The anticipated excavation depth for this activity is approximately 1'-6".
- Replacement, rehabilitation, and installation of new luminaries and poles, including but not limited to evaluating the functionality of the public lighting luminaire, straightening of posts, replacement of damaged posts, and installation of missing posts. The anticipated maximum excavation depth for this activity is approximately 6'-0".

- Installation of the *Boquerón* emblematic letter sign at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Installation of a memorial plaque geometry at the Main Square. The anticipated excavation depth for this activity is up to 3'-0".
- Installation of a circular *Boquerón* sign on a squared concrete platform at the entrance of *Poblado Boquerón*. The anticipated excavation depth for this activity is up to 3'-0".
- Landscape restoration, enhancement, new tree planters, and greening of selected spaces. The anticipated excavation depth for this activity is approximately 3'-0".
- Elimination of architectural barriers that affect disabled people, in compliance with ADA law, with applicable signs, and painting.
- Demolition of 300 square feet of concrete pavement and 15,236 square feet of plastic floor surface. These areas will be resurfaced with concrete at an anticipated maximum excavation depth for this activity of 18" at sidewalks and curbs.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project encompasses approximately one mile of paved roadway, including José de Diego Street (State Road PR-101) running southeast from Estación Street (State Road PR-307) to Margarita Pabón Public Plaza at Boquerón Town, Luis Muñoz Rivera Street (State Road PR-101) running southwest from State Road PR-307 to Margarita Pabón Public Plaza, Gil Bouyet Street forming a rectangle north of Margarita Pabón Public Plaza, Barbosa Street running southeast from Margarita Pabón Public Plaza, and Hermógenes Pou Street running northeast from Barbosa Street to the entrance to Boquerón Beach Villas with its private marina.

The direct APE measures approximately 0.36 miles from north to south, limited to the north by the José de Diego Street (State Road PR-101) and State Road PR-307 intersection and to the south by and a wooden deck overlooking *Caño Boquilla*, and 0.43 miles from west to east, limited to the west by the *Club Náutico de Boquerón* entrance on José de Diego Street (State Road PR-101) and to the east by the Luis Muñoz Rivera Street (State Road PR-101), State Road PR-307, and Parque Nacional Avenue intersection.

The indirect APE is the viewshed of the project, which is the town of Boquerón. Nautical clubs, local restaurants, beach clubs, and souvenir shops concentrate around the Margarita Pabón Public Plaza and along José de Diego Street (State Road PR-101) to the west. For the most part, short-term rentals and private residences are found along Luis Muñoz Rivera Street (State Road PR-101) to the east of the Margarita Pabón Public Plaza and to the north on smaller streets such as Severiano Carlos Street and Gil Bouyet Street.

Identification of Historic Properties - Archeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of the existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within a quarter-mile radius of twenty-five recorded archaeological sites pertaining to Boquerón Town of the Municipality of Cabo Rojo, described below, and highlighted in the aerial and topographic maps included. "No data" denotes no corresponding Institute of Puerto Rican Culture (IPRC), State Historic Preservation Office (SHPO), or National Register of Historic Places (NRHP) identification was found.

Table 1. Archaeological Sites and/or NRHP Listed/Eligible Historic Properties Within Quarter-Mile Radius of Project Area

#	Name	SHPO ID	IPRC ID	Location	Description	NRHP
1	Paradero (Photo #9)	No data	No data	0.01 mi NE 18.025893, -67.173842	Historic, mid-20th century, two-story wooden hostel and spa with zinc roof named SOS Serenity Ocean; located on the junction of Gil Bouyet and Severiano Carlos Streets.	No data
2	Residencia (Photo #17)	No data	No data	0.01 mi NW 18.025096, -67.173237	Historic, 20th century, one-story wood and concrete residence; located in front of Margarita Pabón Public Plaza.	No data
3	Residencia (Photo #30)	No data	No data	0.01 mi NW 18.025190, -67.172691	Historic, 20th century, one-story wooden residence with concrete base and zinc roof; located on the	No data

					junction of Luis Muñoz Rivera Street (State Road PR-101) and Gil Bouyet Street.	
4	Residencia (Photo #33)	No data	No data	0.01 mi NW 18.025426, -67.172322	Historic, 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).	No data
5	Residencia (Photo #35)	No data	No data	0.01 mi SE 18.025620, -67.171676	Historic, 20th century, one-story wooden residence with concrete base and zinc roof; located on Luis Muñoz Rivera Street (State Road PR-101).	No data
6	Residencia (Photo #36)	No data	No data	0.01 mi SE 18.025666, -67.171556	Historic, 20th century, two-story wooden residence with concrete base and zinc roof; located on Luis Muñoz Rivera Street (State Road PR-101).	No data
7	Residencia (Photo #38)	No data	No data	0.01 mi NW 18.026323, -67.170613	Historic, 20th century, one-story wooden residence with concrete base and zinc roof; extension built toward rear of property; located on Luis Muñoz Rivera Street (State Road PR-101).	No data
8	Residencia (Photo #39)	No data	No data	0.01 mi NW 18.026435, -67.170440	Historic, 20th century, one-story wooden residence with concrete base and zinc roof; located on Luis Muñoz Rivera Street (State Road PR-101).	No data
9	Comercio (Photo #40)	No data	No data	0.01 mi SE 18.026337, -67.170114	Historic, 20th century, one-story concrete commercial structure; currently used by a local clinical laboratory named *Laboratorio Clínico Boquerón*; located on Luis Muñoz Rivera Street (State Road PR-101).	No data

10	Cabo Rojo 12-2-9; Boquerón (Photo #14)	CR0100011	CR-11	0.01 mi S 18.025693, -67.173149	Pre-Columbian, disperse ceramic residuary and shell midden with lithic artifacts and human burials; associated with Ostionoid or Pre-Taíno culture (ca. 1,200 – 1,500 AD), specifically Cuevas style; according to Irvin Rouse (1934), it measures 200 m in diameter and 65 cm deep, while Antonio Ramos y Ramírez de Arellano (1988) reports an extension of half a *cuerda*; Marisol J. Meléndez (2002) surveyed the neighboring parcel to the north of the hostel and found two shell fragments out of context; located underneath the Boquemar Hotel's parking lot, on the junction of Gil Bouyet and Severiano Carlos Streets.	No data
11	Cisterna de Ladrillos	CR0200031	CR-192	0.02 mi SE 18.025962, -67.170566	Historic, 20th century (ca. 1940), brick cistern on a residential backyard; located south of Luis Muñoz Rivera Street (State Road PR-101).	No data
12	Caño La Boquilla	CR0100148	CR-152	0.04 mi E 18.025161, -67.170852	Pre-Columbian, pre-ceramic shell and flint residuary and campsite; located on the *Caño Boquilla*, entering the *Marina de Boquerón*.	No data
13	Estación de Boquerón	No data	No data	0.06 mi NW 18.026982, -67.171057	Historic, early 20th century, railroad station established in May 1909 by the American Railroad Co., which had already built the *Ramal Cabo Rojo* in January of that year exclusively for the transport of sugarcane	No data

					and merchandise, and upon request of the locals, expanded their services to include passenger transport; since demolished, it was previously located on what is now the Roberto Cofresí Plaza, on the junction of State Road PR-307 Km 18.2 and Fermín Morales Street.	
14	Cabo Rojo 12-2-8	CR0100030	CR-30	0.07 mi SE 18.028119, -67.173613	Pre-Columbian, disperse shell midden measuring 60 m^2; associated with Cabo Rojo 12-2-9 (Hotel Boquemar) and Cabo Rojo 12-2-7 archaeological sites excavated by C. Goodwill and J. Walker in 1972; located east of State Road PR-307 Km 8.7, near the wastewater treatment plant.	No data
15	Muro de Piedra Marina Boquerón	CR0200028	CR-180	0.07 mi SE 18.024661, -67.170493	Historic, 18th-19th century, stone, brick and masonry wall likely used as dam to retain the waters of *Quebrada Los Naranjos* for the use of sugarcane mill *Hacienda La Baume*; located south of *Marina de Boquerón*, between Hotel Aquarius and Boquerón Beach Villas, on Parque Nacional Avenue.	No data
16	Cabo Rojo 12-2-7; Conchero Ortiz-Carlo	CR0100029	CR-29	0.09 mi NE 18.030261, -67.174676	Pre-Columbian, superficial shell midden with lithic artifacts in a residential backyard measuring 10 m^2; located east of State Road PR-307 Km 8.2.	No data
17	Cabo Rojo 12-8-7; Conchero	CR0100048	No data	0.09 mi SE 18.025687, -67.168922	Pre-Columbian, shell midden associated with Chicoid or Taíno culture (ca. 1,200 - 1500 AD);	No data

	Buyé; PRCR045				located west of Parque Nacional Avenue, underneath *Marina de Boquerón* buildings.	
18	Puente Via 4	CR0200033	CR-194	0.13 mi SE 18.027007, -67.167057	Historic, 19th century (ca. 1890), stone and brick bridge associated with the local railroad system; located southeast of Luis Muñoz Rivera Street (State Road PR-101).	No data
19	SDAU-5	CR0100155	CR-183	0.17 mi NW 18.031026, -67.175732	Pre-Columbian, 30 cm deep shell midden associated with pre-ceramic cultures; located near Juan Silvestry Franqui Street.	No data
20	Residuario de Ladrillos	CR0200030	CR-191	0.20 mi SE 18.024175, -67.168684	Historic, 19th century, residuary containing bricks, ceramics, and building materials associated with the remains of Hacienda La Baume, built 250-300 m northeast; located east of Parque Nacional Avenue.	No data
21	Puente de Ladrillos Via 5	CR0200032	CR-193	0.24 mi NW 18.031692, -67.176594	Historic, late 19th century (ca. 1890), colonial brick bridge associated with the local railroad system; located on Juan Silvestry Franqui Street.	No data
22	Panadería La Constancia	CR0200014	CR-166	0.24 mi NE 18.029949, -67.166927	Historic, 20th century, one-story brick bakery with a gabled zinc roof and wood-carved *soles truncos* established by Ángel Doitteaud and Miguel Seda, the actual owner; it measures 60' long by 35' wide and 20' high; to the rear is a 12' wide and 8' high wood-burning brick oven equipped with an iron chimney; on the other side was a stationary	No data

					gasoline-powered engine, since replaced with an electrical alternative built ca. 1940 coupled with a pulley system that moves a lathe and dough roller fabricated in 1915; located on Parque Street, outside Boquerón Town.	
23	Cabo Rojo 12-2-20; Cementerio de Boquerón	CR0100073	CR-70	0.25 mi NW 18.030539, -67.170236	Pre-Columbian, ceramic and lithic residuary and shell midden with human burials measuring 40 by 40 m^2; associated with Ostionoid or Pre-Taíno culture (ca. 600 - 1,200 AD); located on the north side of the Boquerón's Santiago Apóstol Municipal Cemetery, on the junction of Dr. Santiago Ruiz and Manuel Guilloty Streets.	No data
24	Cementerio de Boquerón al Sur	CR0100144	CR-148	0.25 mi NW 18.030425, -67.170768	Pre-Columbian, pre-ceramic shell midden with lithic artifacts (flint flakes) and faunistic remains (manatee bones); located a hill south of Boquerón's Santiago Apostol Municipal Cemetery, near Manuel Guilloty Street.	No data
25	Hacienda Boquerón; Hacienda La Baume	CR0200023	CR-175	0.25 mi SE 18.025115, -67.165818	Historic, 19th century, steam-powered sugar mill originally established in 1842 by Carlos María José Francisco Wys Garescher du Rocher (1830-1899), a Paris-born French immigrant and later operated by engineer Enrique Renón de la Baume Wys (1858-1908), who married María Antonia Cristina Marini Correa (1876-?), Wys	No data

					Garescher du Rocher's widow and inheritor of the *hacienda*; it contained a factory building, house and two sheds, a battery with a chimney, two pumps, two sugar defecators, three coolers and a *purguero* or drainer; in total, it produced 800 hogshead of sugar from 300 acres; only a 50' high chimney remains, along with a remodeled house; located 100 yards south of Luis Muñoz Rivera Street (State Road PR-101).	

Table 2. Cultural Resource Studies Conducted Within Quarter-Mile Radius of Project Area

ID	Author	Title	Year	SHPO/IPRC ID	Results	Location
A	Osvaldo García Goyco	Phase 1A-1B, Sistema de Disposición de Aguas Usadas de Cabo Rojo (Luis Muñoz Rivera Street/PR-101 Polygon)	2002	01-02-02-02	Positive	0.00 mi NE
B	Virginia Rivera Calderón	Phase 2, Sistema de Disposición de Aguas Usadas de Cabo Rojo (PR-307 Polygon)	2008	04-06-09-01	Positive	0.01 mi NE
C	Juan González Colón	Phase 2 Extension, Marina de Boquerón	1993	12-14-89-01	Positive	0.01 mi SE
D	Antonio Ramos Ramírez de Arellano	Phase 1A-1B, Marina de Boquerón	1988	12-14-89-01	Positive	0.02 mi SE
E	Héctor Rivera	Phase 1A-1B, Boquerón Tourism and Recreational Complex	1987	04-30-87-01	Negative	0.05 mi SE
F	Juan González Colón	Phase 2, Marina de Boquerón	1993	12-14-89-01	Positive	0.06 mi SE
G	Juan González Colón	Phase 3, Trabajos Adicionales Marina de Boquerón	1997	12-14-89-01	Positive	0.07 mi SE

H	Luis R. Ortiz Sepúlveda, José Efraín Irizarry & Evelyn Ortiz	Phase 1A-1B, Urbanización El Retiro	1987	11-14-85-03	Negative	0.09 mi NE
I	Juan González Colón	Phase 3, Informe Final Sitio del Caño Boquilla Proyecto Marina de Boquerón	1995	12-14-89-01	Positive	0.10 mi SE
J	José Muñoz	Phase 1A-1B, Construcción Parque de Bombas	1992	04-16-92-04	Negative	0.11 mi NE
K	Luis R. Ortiz Sepúlveda, José Efraín Irizarry & Evelyn Ortiz	Phase 1, Segunda Extensión Urb. Jardín de Boquerón	1985	05-20-85-03	Negative	0.12 mi NW
L	Osvaldo García Goyco	Phase 1A-1B, Sistema de Disposición de Aguas Usadas de Cabo Rojo (Parque Nacional Avenue Polygon)	2002	01-02-02-02	Positive	0.14 mi SE
M	Virginia Rivera Calderón	Phase 2, Sistema de Disposición de Aguas Usadas de Cabo Rojo (Parque Nacional Avenue Polygon)	2008	04-06-09-01	Positive	0.14 mi SE
N	José Muñoz	Phase 1A-1B, Mejoras al Sistema de Acueductos de los Barrios Boquerón, Pedernales, Llanos Tunas y Llanos Costas, Cabo Rojo P.R.	1993	11-18-92-01	Negative	0.16 mi NE

Cultural Setting

The Municipality of Cabo Rojo is located at the southwest corner of Puerto Rico, with a complex geomorphology including high-angle faults, low hills, quartz sand deposits, tidal flats, saline lagoons, mangrove forests and eroded limestone cliffs underlain by basalt and volcanic rock. The archaeology of Cabo Rojo includes numerous pre-ceramic sites exceeding 3,000 years old. At the site of Coroso in Cabo Rojo, Irving Rouse first identified a pre-ceramic culture in Puerto Rico at a shell midden. Rouse later discarded Coroso as

modern, too far inland for an aboriginal shell midden. The author's model of coastal change (Vega 1990, 1995) identifies tectonic uplift as the reason for ancient pre-ceramic sites on the hills of Cabo Rojo, with more recent prehistoric sites closer to the shore, such as the large ceramic site of Punta Ostiones (CR0100006), occupied until about 1,200 AD at the point of Punta Ostiones, north of *Puerto Real*. Nominated to the National Register of Historic Places in 2004, Punta Ostiones is fronted by a beach rock pavement formed after the site was occupied.

Within Boquerón Ward, the best-known ceramic site is Conchero Villa Taína de Boquerón; 12-8-16 (CR0100005), a multi-component site including Spanish historic materials from the late 17th to the mid-19th centuries, excavated by Christopher R. Goodwin and Jeffrey B. Walker (1975) and now occupied by the Villa Taína Condominium. Just northwest of Villa Taína, the author excavated a pre-ceramic shell midden and lithic workshop at Boquerón de Mar, 0.87 km NE of the direct APE (Vega 1995). This site excavated by the author is not formally reported in SHPO files. Both sites are beyond a quarter-mile radius of the proposed project area.

The *salinas* or salt works of Boquerón Ward, including the south side of *Bahía Boquerón*, *El Combate*, *Punta Águila* and *Bahía Salinas*, were a magnet for both prehistoric and historic settlers, used for seasoning and food preservation. As reported by Salvador Brau, Spaniards settled in Cabo Rojo as early as 1512 in order to exploit the *salinas*. In 1585, the British attempted to control the salt works and were repelled in combat on the beach celebrated as *El Combate*. In 1769, *caborrojeños* once again defended the salt works from intruders, this time from Aguadilla, and again from settlers of the nearby town of San Germán. Friction over the *salinas* led to the segregation of Cabo Rojo from San Germán in 1772.

The salt works and anchorages, the fertility of the land, and the relative isolation of Cabo Rojo from the capital of San Juan made it attractive to British, French, and Dutch smugglers from the 16th to the 18th centuries. In the 19th century, Cabo Rojo attracted legitimate French settlers, pro-independence sentiment, most notably by the doctor and abolitionist Ramón Emeterio Betances, and local pirates such as the legendary Roberto Cofresí. Puerto Real, north of Boquerón, was called *El Francés* in the 18th century, written *Pto. Franey* in Juan de Surville's ca. 1775 map.

In 1804, attempting to curtail contraband, Puerto Real was open to legal trade, followed by the port of Boquerón in 1848, for exporting sugar, corn, cotton, etc. The town of Boquerón was built within the sugar Hacienda Boquerón (CR0200023), owned by French settlers Zenón Delarise and Víctor Budon and operated with slaves. It was sold to another Frenchman, Carlos María José Francisco Wys Gerescher de Rucher, in 1832, later called

Hacienda La Baume. In the 1880s, small parcels of land were sold to ordinary *caborrojeños*. By 1884, there were twenty-two houses and huts on both sides of Luis Muñoz Rivera Street, inhabited by mostly fishermen, sailors, salt workers, and sugar workers.

William F. Armstrong visited Boquerón for his Progressive Map of Porto Rico of 1910, with annotated photographs. Armstrong reported "one large two-story house with a large general store under it," with a few small stores in shacks, and everyone was poor except for the Spanish owners of the store. The railroad station was "a few hundred yards" from Boquerón. Reporters for a magazine called *El Gráfico* visited Boquerón in 1912, photographing the same store in front of the plaza, which was later named after Margarita Pabón, an early 20th century woman called *la partera de Boquerón*, a midwife assisting local women in their last stages of pregnancy.

A train station was built in Boquerón in 1913, beginning a new era of internal tourism from San Germán and Mayagüez. By 1935, Boquerón had a population of 450, rising to 530 by 1940, with a movie theater operating by 1943. The train stopped operating by 1957, with the ruins of the train station demolished in 1975, replaced by the *Plaza Roberto Cofresí*, also known as *Plaza de los Tres Reyes Magos*.

The public beach or *Balneario de Boquerón* was inaugurated in 1966, across *Quebrada del Boquerón*, or Boquerón Creek, also called *La Boquilla*. In 1974, there was a failed attempt to separate Boquerón from Cabo Rojo. In the 1990s, the Boquerón Marina and Vacation Resort was built in the mangrove behind *La Boquilla*, with a lift bridge connecting the town and the public beach for pedestrians and blocking even small boats like kayaks or canoes from entering the marina when the bridge is down.

Potential for Intact Cultural Deposits

The direct APE is a small tourist enclave built on cleared mangrove forest, with high potential impact to prehistoric and historic archaeological materials. In 1933, J. R. Montalvo Guenard reported a prehistoric site within the community of Boquerón, also reported by S. K. Lothrop in an undated manuscript at the Yale Peabody Museum. In 1934, Lothrop showed the site to Froelich Rainey for the Scientific Survey being conducted by Yale University, continued by Irving Rouse, including test excavations at the "extensive Indian site" in 1937, labeled Boquerón or Cabo Rojo I. This is known as Cabo Rojo 12-2-9; Boquerón (CR0100011), which Rouse described as follows: "Boquerón must have been an ideal location for an Indian village, with its fine beach along perhaps the best bay on the western coast of Porto Rico.

The region is flat, fertile, and well-watered. A large stream just south of the site could have furnished drinking water."

The site consisted of two shell middens, "one to the south of the modern village and another on its northern half," 200 meters in diameter, half a meter deep and 50 meters from the shore, with Cuevas and Ostiones ceramic shards. Rouse also excavated a child's burial, badly decomposed, at a depth of 40 cm and lacking in mortuary artifacts. Rouse classified the site within his Periods II and III. It is located underneath the Boquemar Hotel's parking lot, on the junction of Gil Bouyet and Severiano Carlos Streets. In 2002, an archaeological survey of the parcel to the north conducted by Marisol J. Meléndez reported two shell fragments out of context.

In 1987, Luis R. Ortiz Sepúlveda, José Efraín Irizarry, and Evelyn Ortiz excavated at a site immediately southwest of the Boquerón Cemetery, at #12 Street and Estación Street, for the construction of Condominium RSV Towers. Karen Anderson supported them in the preparation of their 1988 report. This site is Cementerio de Boquerón al Sur (CR0100144), a pre-ceramic shell midden located on a hill south of Boquerón's Santiago Apóstol Municipal Cemetery. More recently, at the request of Daniel Koski-Karell, the author provided coordination for authorizing the delivery of osteological material from this site to bioarcheologist William Pestle at the University of Miami, dating human bones at 6,200 BP.

In 1995, Antonio Daubón Vidal reported a pre-ceramic shell midden east of Boquerón, labeled CRE-1, and another to the south, by the historic chimney of *Hacienda Boquerón*, also known as *Hacienda La Baume*. Further east, Antonio Ramos reported two lithic sites. Six shell middens lacking ceramics were also reported by Daubón Vidal along the south coast of *Bahía de Boquerón*. Cabo Rojo, and Boquerón in particular, is highly sensitive to prehistoric archaeological deposits. Additionally, there is a brick cistern located about 0.20 miles northeast of the intersection of State Road PR-307 and Luis Muñoz Rivera Street, Cisterna de Ladrillos (CR0200031), on the northeast end of the direct APE. Similar cisterns may have been built along Luis Muñoz Rivera Street (State Road PR-101).

Given the fact that the direct APE is built on lowland that was once mangrove, and the abundance of archaeological materials in such terrain, even superficial excavation may impact cultural resources under the streets and sidewalks. The potential for intact cultural deposits is considered high for the project area.

History of Use

The modern town of Boquerón was built in the early 19th century, soon exporting sugar, corn, cotton, hats, among other products. Most of its residents were fishermen, sailors, salt workers, sugar workers, and crabbers. By 1910, there was a large, two-story store and minor stores in front of the plaza. At this time all the homes in Boquerón were wooden houses or huts. Most houses were lined up on both sides of Luis Muñoz Rivera Street (State Road PR-101), including twenty-two houses and huts by 1884. Immediately south of the village was a long sandy beach, shaded by abundant coconut palm trees. In 1914, construction of a train station in Boquerón began an era of internal tourism from San Germán and Mayagüez, gradually acquiring island-wide fame as a first-rate recreational beach. A small movie theater operated in Boquerón by 1943. The train stopped operating by 1957, with new generations of tourists arriving by private car.

In the 1960s, Boquerón became an attractive destination for recreational sailors and motor boaters, offering a wide, protected, and picturesque anchorage. The NOAA nautical chart of *Bahía de Boquerón* in 1972 depicts three recreational piers, including a narrow wooden pier immediately southwest of the plaza. The growing popularity of marine recreation is reflected in the construction of new piers, as reflected in the 1984 NOAA nautical chart, with a total of nine piers, including the marina of the *Club Náutico de Boquerón* at the northwest end of the town of Boquerón. The growing presence of tourists led to the opening of small bars and stores around the town plaza and in adjacent streets, catering to visitors arriving by car or by boat. This development led to construction of the Boquerón Marina and Vacation Resort in the 1990s, with its terrestrial entrance at the southeast of the town. The yachts and boats entering the marina must wait for the metallic lift bridge to open at the entrance to the channel facing *Bahía de Boquerón*. When the bridge is down, it provides pedestrian access from the town to the public beach.

In the 21st century, Boquerón became a popular destination for the LGBTQ+ community. In addition to local concerts, the Margarita Pabón Public Plaza holds the annual *Orgullo Boquerón* Gay Parade. As the terrestrial access to Boquerón Beach, the town is also involved in the development of this famous public beach, which the municipal government of Cabo Rojo plans to acquire from the Commonwealth of Puerto Rico to develop it as a municipal public beach. Throughout its modern history, Boquerón has been and remains a colorful tourist town with direct access to natural resources, including the *Bahía de Boquerón* for boating and kayaking, and the *Bosque Estatal de Boquerón*, a protected mangrove forest at the northwest end of town, with boardwalks extending along the north shore of the bay. Many of the residential properties within the project area are currently used for short-term rentals, for both internal and international tourism.



Figure 1. 1775 sketch of the coast of Cabo Rojo by Juan de Survile. North is down. Project APE is highlighted in yellow (Source: Biblioteca Palacio Real de Madrid).



Figure 2. 1888 military map of the Bay of Boquerón by Captain José Elolo Gutierrez. The marked houses are within the grounds of the *Hacienda Boquerón*. Project APE is highlighted in yellow (Source: https://archivonacional.com).



Figure 3. 1888 military map of the Bay of Boquerón and surrounding terrain, Cabo Rojo, *Centro Geográfico del Ejército.* Project APE is highlighted in yellow (Source: https://archivonacional.com).



Figure 4. 1888 military map of the Bay of Boquerón and surrounding terrain, Cabo Rojo, *Centro Geográfico del Ejército.* Project APE is highlighted in yellow (Source: https://archivonacional.com).

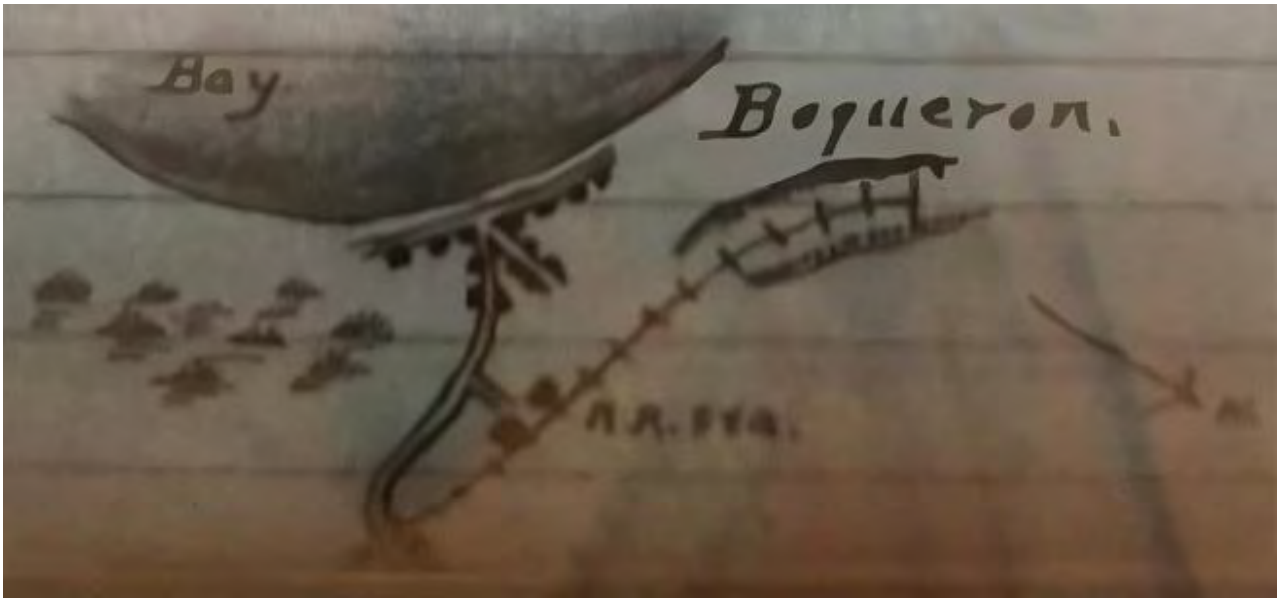


Figure 5. Detail of 1910 sketch of the town of Boquerón included in Captain William H. Armstrong's notes (Source: https://archivonacional.com).

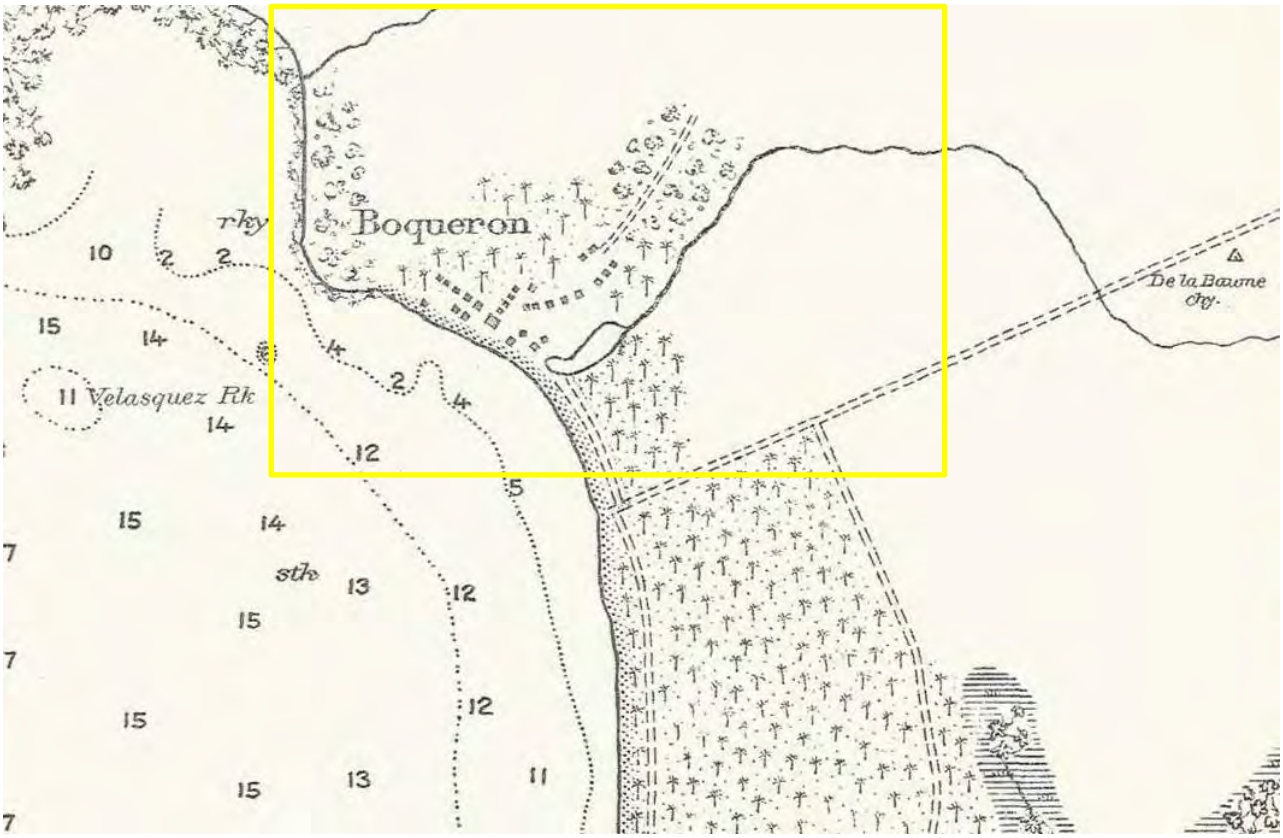


Figure 6. Detail of 1917 nautical chart of the Bay of Boquerón, prepared by the U.S. Coast & Geodetic Survey. Project APE is highlighted in yellow (Source: NOAA, Office of Coast Survey's Historical Map & Chart Collection, https://archivonacional.com).

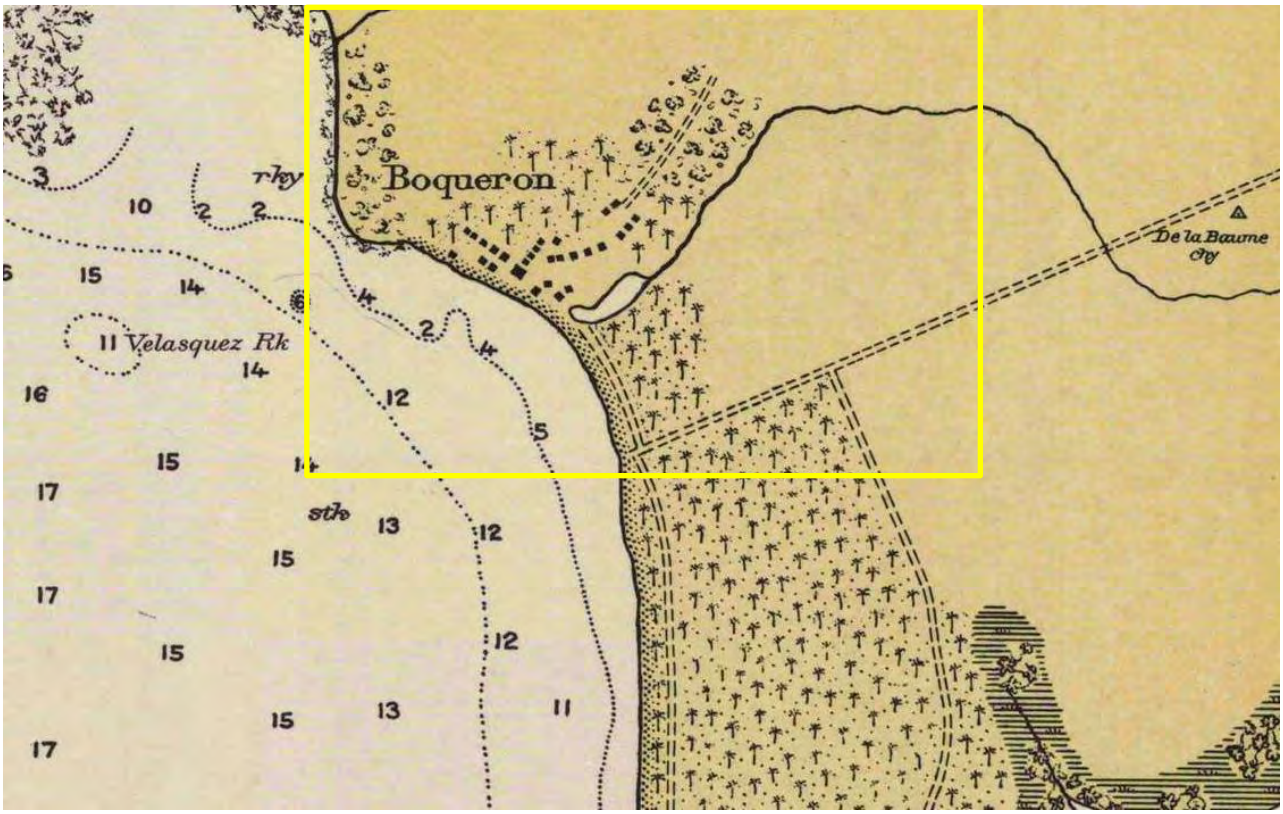


Figure 7. Detail of 1931 nautical chart of the Bay of Boquerón, prepared by the U.S. Coast & Geodetic Survey. Project APE is highlighted in yellow (Source: NOAA, Office of Coast Survey's Historical Map & Chart Collection, https://archivonacional.com).

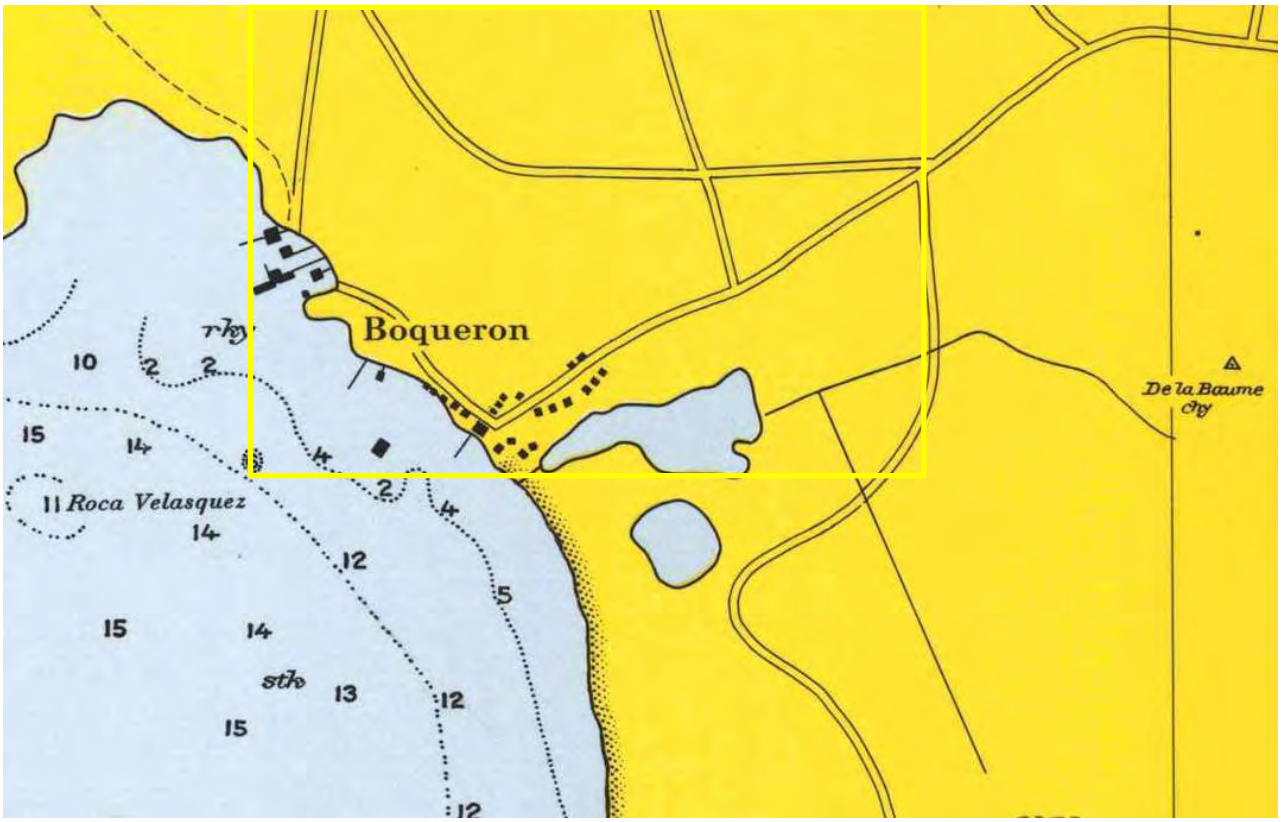


Figure 8. Detail of 1972 nautical chart of the Bay of Boquerón. Project APE is highlighted in yellow (Source: NOAA, Office of Coast Survey's Historical Map & Chart Collection, https://archivonacional.com).



Figure 9. USGS 1935 topographic map (1:25,000 scale) of the Bay of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: https://www.oldmapsonline.org).



Figure 10. USGS 1937 topographic map (1:25,000 scale) of the Bay of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: https://www.oldmapsonline.org).



Figure 11. USGS 1941 topographic map (1:30,000 scale) of the Bay of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: https://www.oldmapsonline.org).

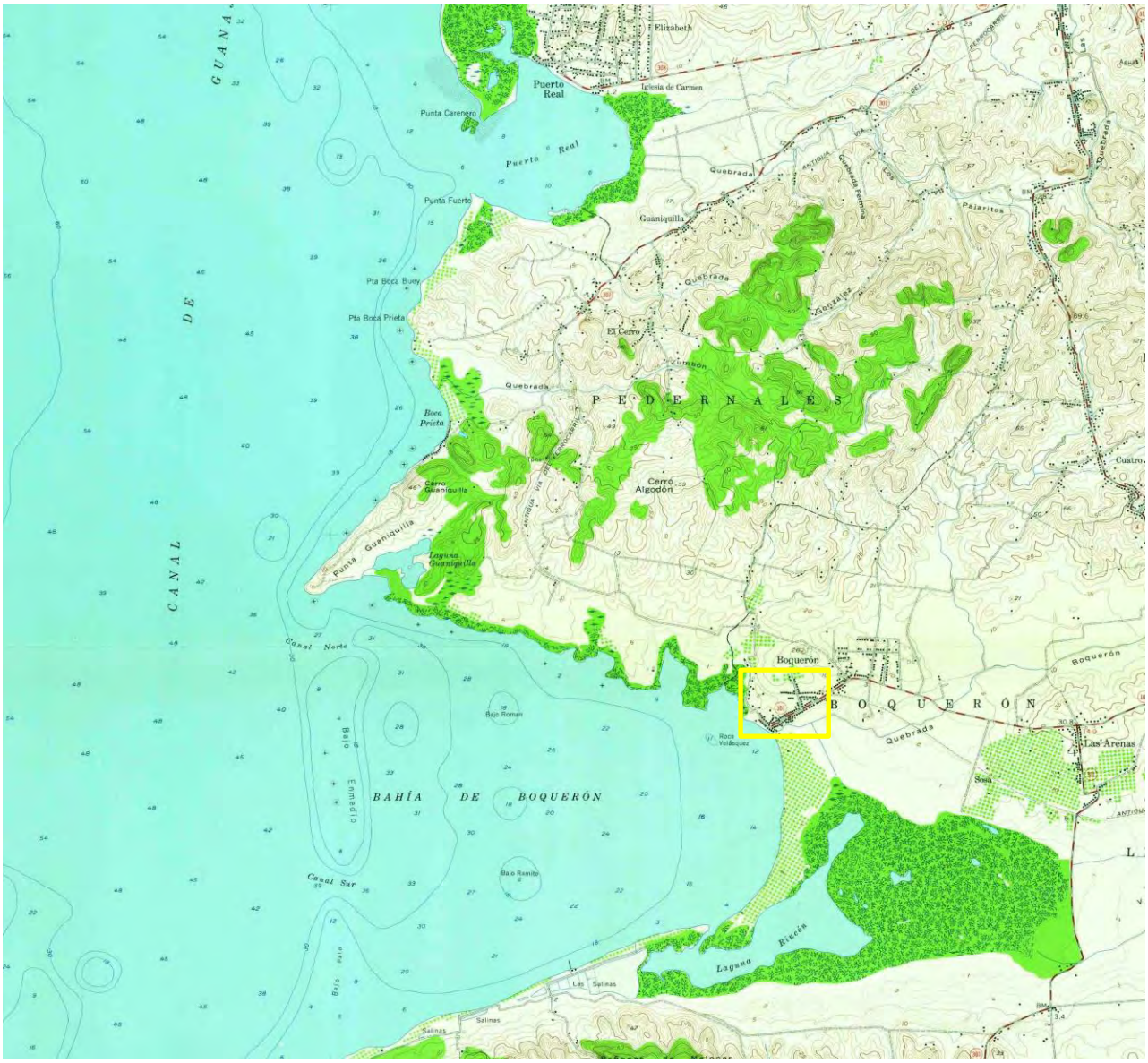


Figure 12. USGS 1959 edition of 1957 topographic map (1:20,000 scale) of the Bay of Boquerón, Cabo Rojo, Puerto Rico. The project APE is highlighted in yellow (Source: https://www.oldmapsonline.org).

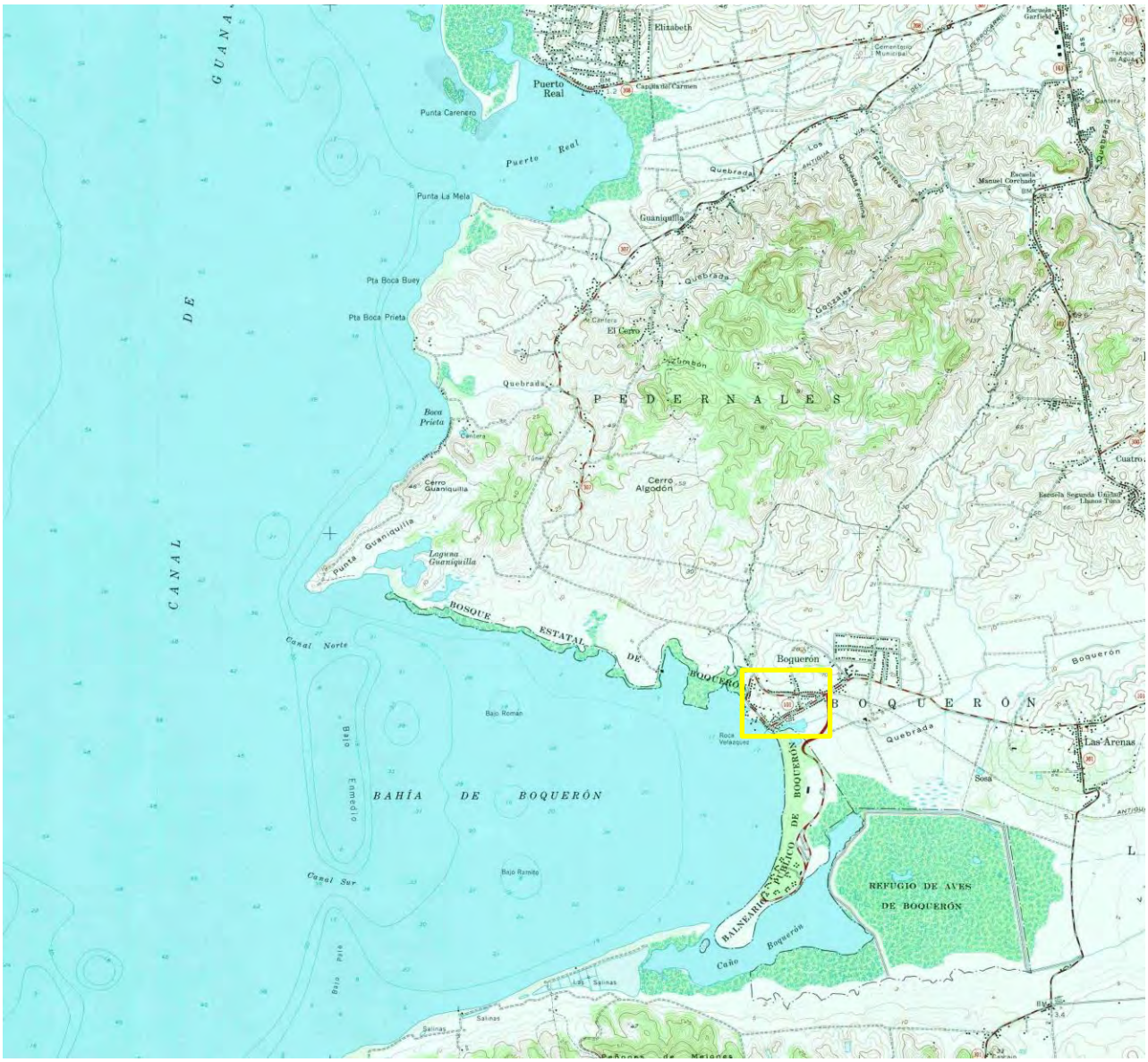


Figure 13. USGS 1984 edition of 1966 topographic map (1:20,000 scale) of the Bay of Boquerón, Cabo Rojo, Puerto Rico. The project APE is highlighted in yellow (Source: https://www.oldmapsonline.org).



Figure 14. December 1994 satellite image of the town of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: Google Earth Pro).



Figure 15. March 2004 satellite image of the town of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: Google Earth Pro).

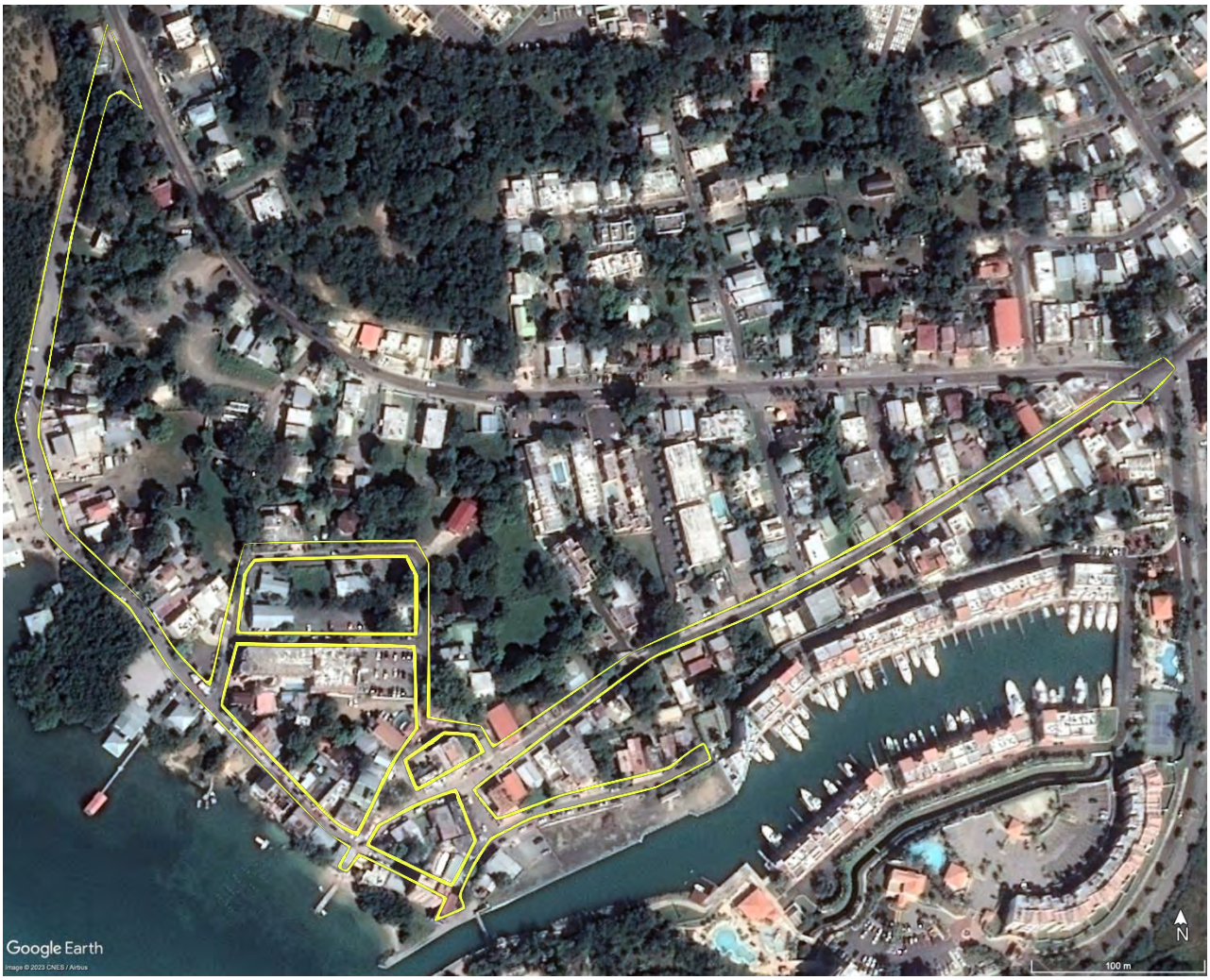


Figure 16. January 2014 satellite image of the town of Boquerón, Cabo Rojo. Project APE is highlighted in yellow (Source: Google Earth Pro).



Figure 17. June 2017 satellite image of the town of Boquerón, Cabo Rojo, before the passing of hurricanes Irma and María. Project APE is highlighted in yellow (Source: Google Earth Pro).



Figure 18. November 2017 satellite image of the town of Boquerón, Cabo Rojo, after the passing of hurricanes Irma and María. Project APE is highlighted in yellow (Source: Google Earth Pro).

Identification of Historic Properties - Architecture

The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is not within a quarter-mile distance from any listed property included in the National Register of Historic Places (NRHP). Punta Ostiones (04000908) is the closest NRHP site, but outside of the quarter-mile radius APE buffer zone, approx. 4.7 miles northwest from the subject project.

However, the *Poblado Boquerón* community is an NRHP-eligible district under Criterion A and D. This area contains multiple historic resources related to early settlement, agricultural, and maritime economic development in the southwestern area of Puerto Rico since the Pre-Colombian population through early 20th century.

Early dirt access roads to the *Poblado Boquerón* can be seen in the 1940 USGS aerial imagery, and the town plaza and asphalted roads are first seen in 1975 USGS aerial imagery. The existing buildings around the Poblado Boquerón are mostly vernacular, one- or two-level wooden residences with gabled, corrugated metal sheet roofs, or concrete, multiple stories-high buildings with different programs, such as commercial, religious, or residential.

The following are resources within the NRHP-eligible Poblado Boquerón Historic District:

> The Paradero building, or Serenity Ocean Hostel (#1 on Table 1), Photo #9, is a mid-twenty century, two-story high wood hostel with a gabled, corrugated metal sheet roof on Gil Bouyet Street.
>
> Residence across the street from the Margarita Pabón Public Plaza (#2 in Table 1). Photo #17, is a concrete, one-story, single-family house with a hipped, corrugated metal sheet roof. The ornamental, metal tube columns in the front porch area help support the roof in this area of the house.
>
> Residence on the corner of Luis Muñz Rivera St. and Gill Bouyet St. (#3 on Table 1), Photo #30, is a one-story, single-family house of wood, tongue, and groove construction with a gabled, corrugated metal sheet roof.
>
> Residence (#4 on Table 1) Photo #33, is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

Residence (#5 on Table 1) Photo #35, is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

Residence (#6 on Table 1) Photo #36, is a 20th century, one-story wood and concrete residence with zinc roof; currently in an abandoned state; located on Luis Muñoz Rivera Street (State Road PR-101).

Residence (#7 on Table 1) Photo #38, is a 20th century, one-story wooden residence with concrete base and zinc roof; extension built toward rear of property; located on Luis Muñoz Rivera Street (State Road PR-101).

Residence (#8 on Table 1) Photo #39, is a 20th century, one-story wooden residence with concrete base and zinc roof; located on Luis Muñoz Rivera Street (State Road PR-101).

Commercial building (#9 on Table 1) Photo #40, is a 20th century, one-story concrete commercial structure; currently used by a local clinical laboratory named *Laboratorio Clínico Boquerón*; located on Luis Muñoz Rivera Street (State Road PR-101).

Panadería La Constancia is a 20th century, one-story brick bakery with a gabled, corrugated metal sheet roof and wood-carved *soles truncos*; located on Parque Street, outside Boquerón Town.

Hacienda Boquerón – or Hacienda la Baume, is a 19th century, steam-powered sugar mill originally established in 1842. Only a 50' high chimney remains, along with a remodeled house; located 100 yards south of Luis Muñoz Rivera Street (State Road PR-101).

Determination

The following historic properties have been identified within the APE:

- Direct Effect: The prehistoric site of Cabo Rojo 12-2-9; Boquerón (CR0100011), described by Irving Rouse as an extensive Indian site, 200 meters in diameter, is located underneath the Boquemar Hotel's parking lot, on the junction of Gil Bouyet and Severiano Carlos Streets, near the north end of the direct Area of Potential Effect (APE). Parts of this site, including human burials, may be located under the streets of Boquerón Town. Additionally, brick and masonry cisterns associated with 19th century houses along Luis Muñoz Rivera Street (State Road PR-101), such as Cisterna de Ladrillos (CR0200031) may also be located. Moreover, the original town of Boquerón was built within the 19th century sugar-producing Hacienda Boquerón; Hacienda La Baume (CR0200023).
- Indirect Effect: This project will take place within the NRHP-eligible *Poblado Boquerón*, which is also the cultural viewshed and contains several early to mid-20th century residential structures adjacent to the direct APE, particularly to the east of the Margarita Pabón Public Plaza and along Luis Muñoz Rivera Street (State Road PR-101). Demolition, construction, and rehabilitation activities of streets, sidewalks, curbs, and other public areas must be performed in a careful and responsible manner to ensure activities do not alter the historic resources around the NRHP-eligible district.

Based on the results of our historic property identification efforts, the Program has determined that the project actions will potentially affect historic properties within the direct Area of Potential Effect (APE), including prehistoric and historic materials. No adverse effect to cultural properties is anticipated for any excavation for sidewalks and road improvements and construction. Therefore, extensive archaeological monitoring of the undertaking by an SOI-Qualified Archaeological Monitor is highly recommended. An architectural historian will monitor the project to detect and address any unanticipated effects on historic resources.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination**	
Subrecipient: Municipality of Cabo Rojo	
Project Name: Rehabilitación y Embellecimiento del Poblado Boquerón	**Project ID:** PR-CRP-000847

Recommendation *(Please keep on same page as SHPO Staff Section)*

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

☐ No Historic Properties Affected

☒ No Adverse Effect

Condition (if applicable): Due to the significant potential of finding intact cultural deposits within the project area, extensive archaeological monitoring performed by an SOI-Qualified Archaeological Monitor is recommended for all proposed excavations throughout the direct Area of Potential Effect (APE). An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

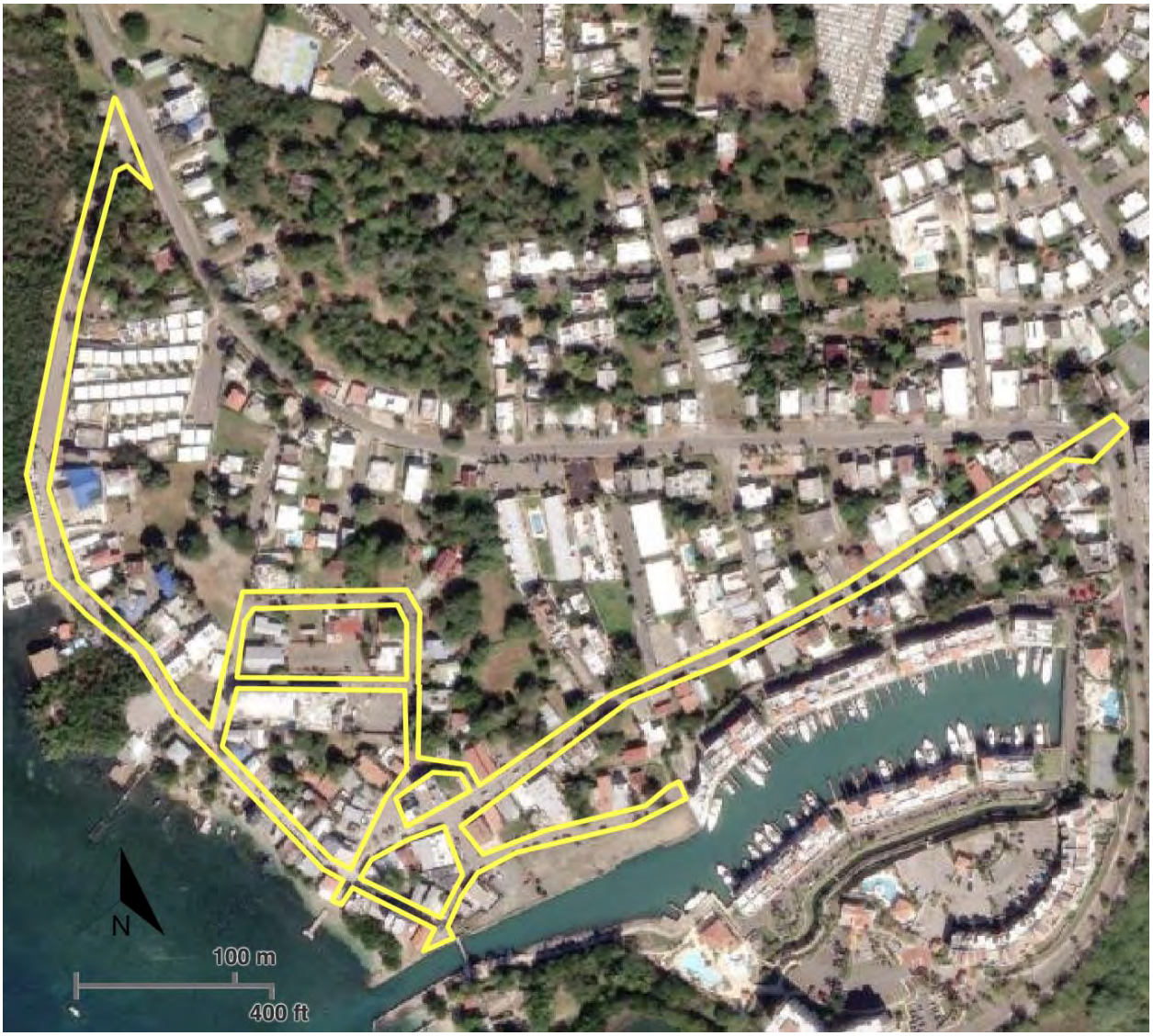
☐ Adverse Effect

Proposed Resolution (if applicable):

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and: ☐ **Concurs** with the information provided. ☐ **Does not concur** with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Project (Parcel) Location – Area of Potential Effect Map (Aerial)



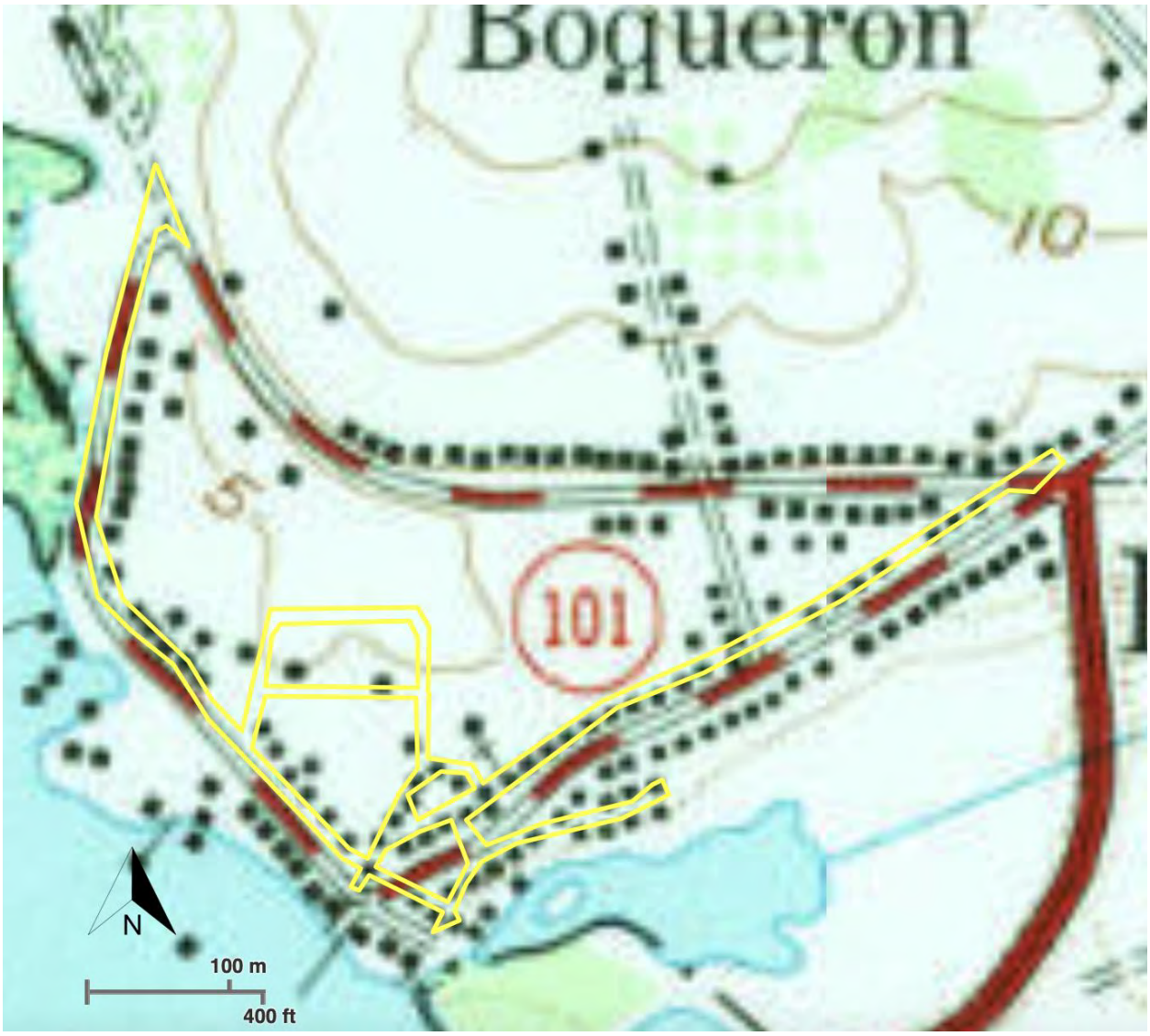
Source: 2022 Aerial Photograph, Google Earth Pro

Project (Parcel) Location - Aerial Map



Source: Interactive Map of United States Environmental Protection Agency, NEPAssist (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Project (Parcel) Location - USGS Topographic Map



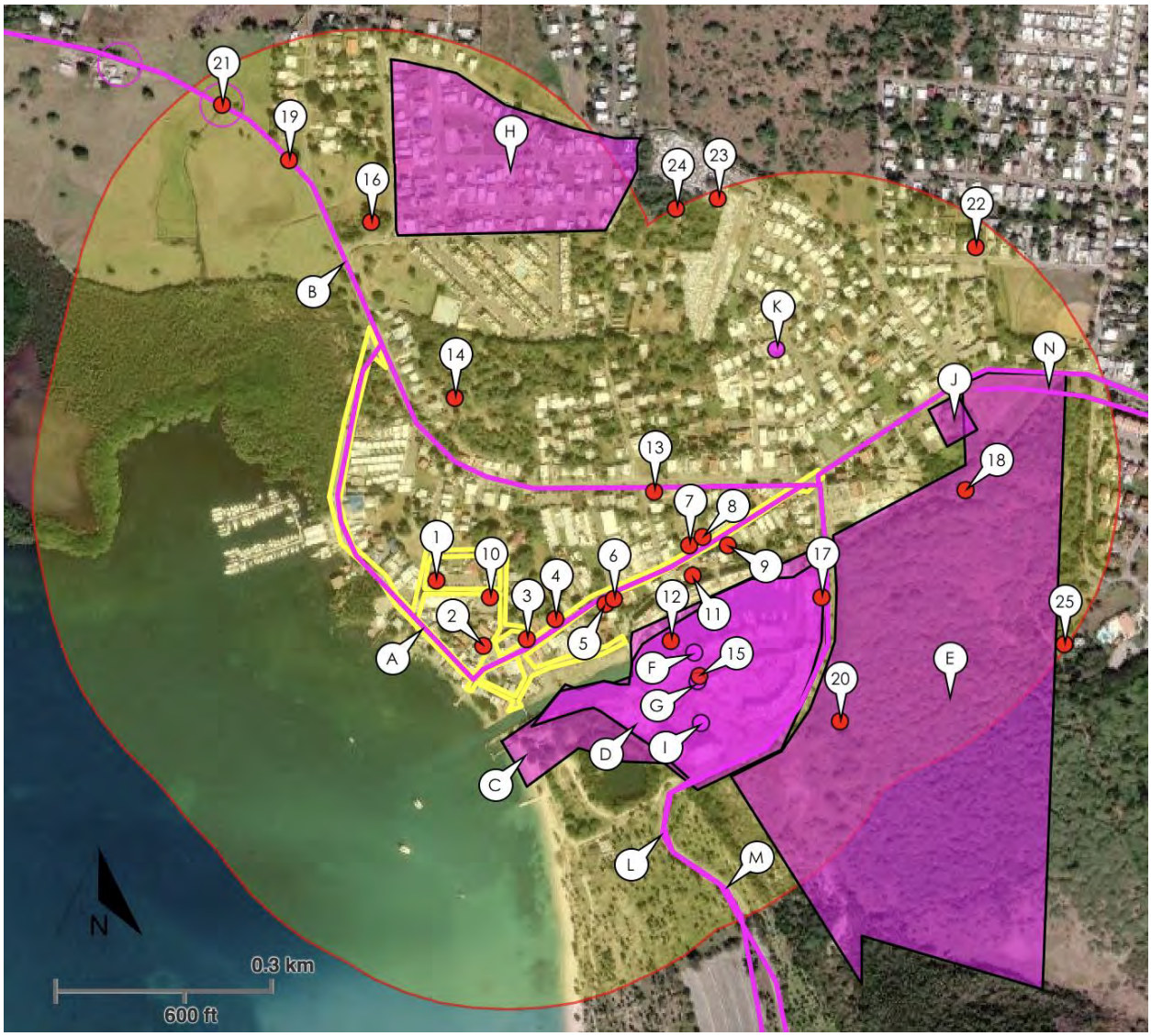
Source: Interactive Map of United States Environmental Protection Agency, NEPAssist (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Project (Parcel) Location - Soils Map



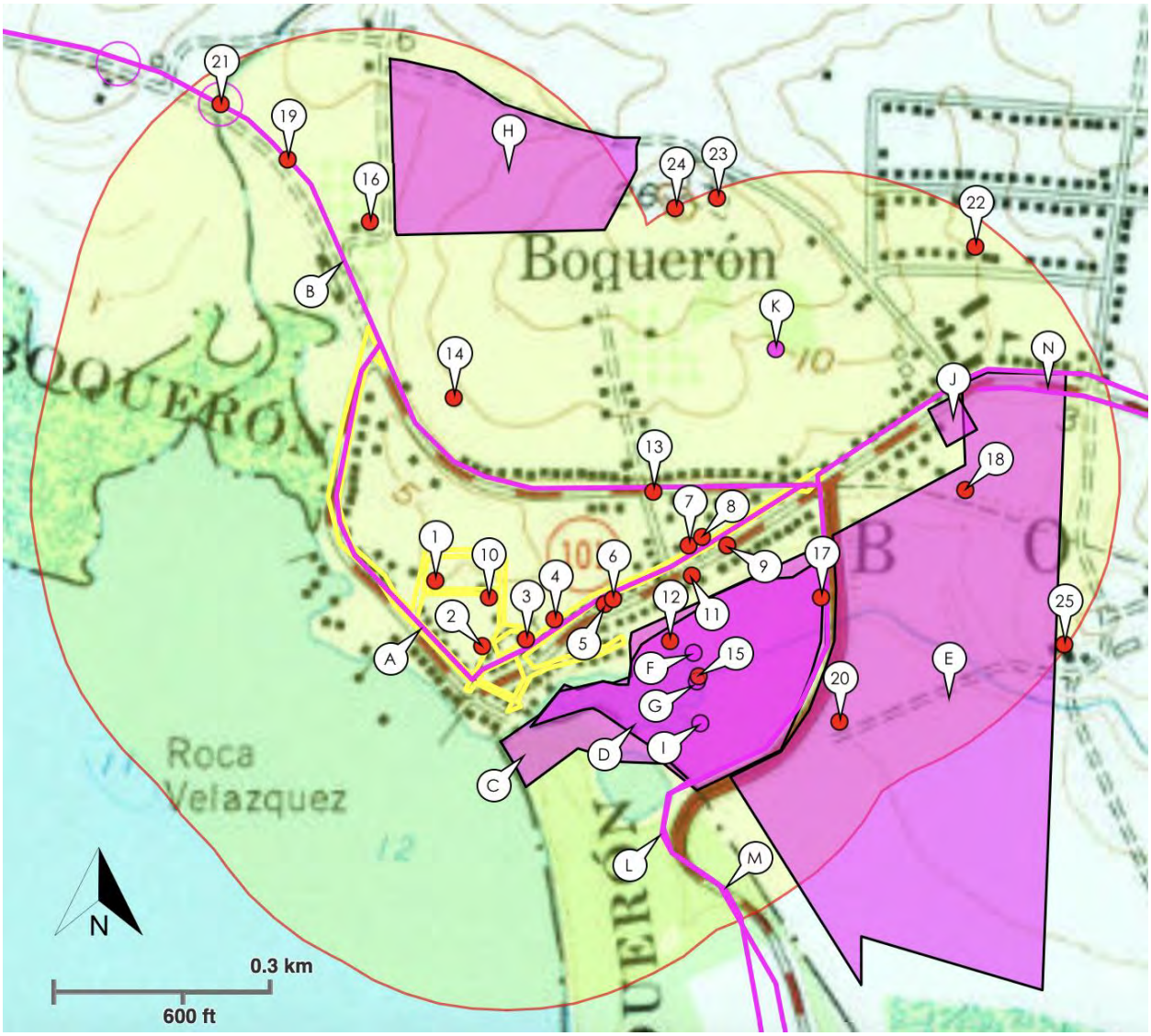
Source: Interactive Map of Planning Board, MIPR (http://gis.jp.pr.gov/mipr/)

Project (Parcel) Location with Previous Investigations and Recorded Historic Properties Within a Quarter-Mile Radius - Aerial Map



Source: Interactive Map of United States Environmental Protection Agency, NEPAssist (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Project (Parcel) Location with Previous Investigations and Recorded Historic Properties Within a Quarter-Mile Radius - USGS Topographic Map



Source: Interactive Map of United States Environmental Protection Agency, NEPAssist (https://nepassisttool.epa.gov/nepassist/nepamap.aspx)

Photograph Key 1



Source: 2022 Aerial Photograph, Google Earth Pro

Photograph Key 2



Source: 2022 Aerial Photograph, Google Earth Pro

Photograph Key 3



Source: 2022 Aerial Photograph, Google Earth Pro



Photo #: 1	**Description:** PR-101 & PR-307 intersection, Boquerón Town entrance.
Date: 8/14/23	**Direction:** NE



Photo #: 2	**Description:** PR-101 & PR-307 intersection, Boquerón Town entrance.
Date: 8/14/23	**Direction:** NW



Photo #: 3	**Description:** State Road PR-101, toward Boquerón Town.
Date: 8/14/23	**Direction:** SE



Photo #: 4	**Description:** State Road PR-101, toward PR-307 intersection.
Date: 8/14/23	**Direction:** NE



Photo #: 5	**Description:** *Club Náutico de Boquerón*, State Road PR-101.
Date: 8/14/23	**Direction:** SW



Photo #: 6	**Description:** State Road PR-101, toward PR-307 intersection.
Date: 8/14/23	**Direction:** NE



Photo #: 7	**Description:** PR-101 and Carlos Severiano Street intersection.
Date: 8/14/23	**Direction:** SE



Photo #: 8	**Description:** PR-101 and Carlos Severiano Street intersection.
Date: 8/14/23	**Direction:** SW



Photo #: 9	**Description:** Serenity Ocean Hostel (#1 on Table 1), Gil Bouyet Street.
Date: 8/14/23	**Direction:** NE



Photo #: 10	**Description:** Boquemar Hotel entrance, Gil Bouyet Street.
Date: 8/14/23	**Direction:** E



Photo #: 11	**Description:** Red Sunset parking lot entrance, Carlos Severiano Street.
Date: 8/14/23	**Direction:** NE



Photo #: 12	**Description:** Carlos Severiano Street.
Date: 8/14/23	**Direction:** SW



Photo #: 13	**Description:** Carlos Severiano Street, toward Gil Bouyet Street.
Date: 8/14/23	**Direction:** S



Photo #: 14	**Description:** Boquemar parking lot (#10 on Table 1), Gil Bouyet Street.
Date: 8/14/23	**Direction:** W



Photo #: 15	**Description:** Gil Bouyet Street, toward Margarita Pabón Public Plaza.
Date: 8/14/23	**Direction:** S



Photo #: 16	**Description:** Taínos Boquerón Apartments parking, Gil Bouyet Street.
Date: 8/14/23	**Direction:** NE



Photo #: 17	**Description:** Residence (#2 in Table 1), Margarita Pabón Public Plaza.
Date: 8/14/23	**Direction:** NW

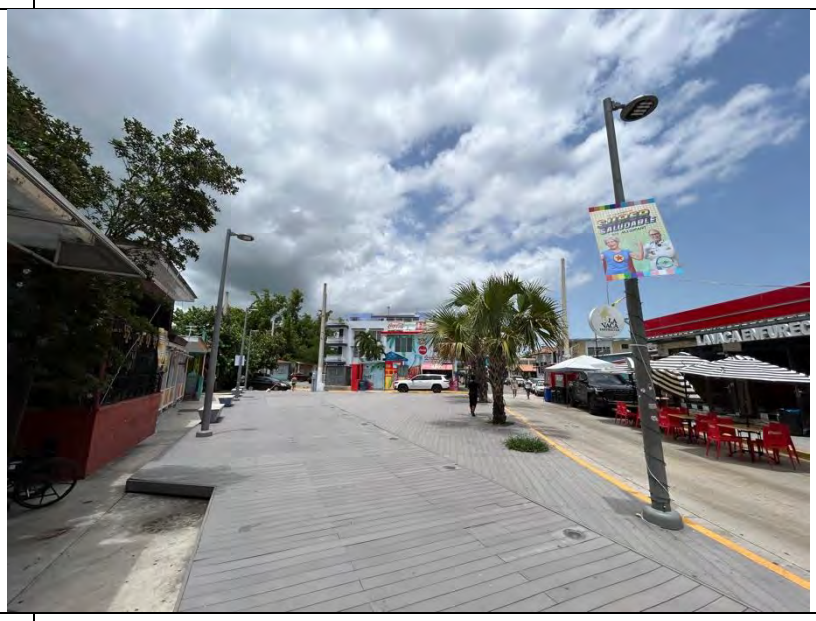


Photo #: 18	**Description:** Southwest point of Margarita Pabón Public Plaza.
Date: 8/14/23	**Direction:** NE

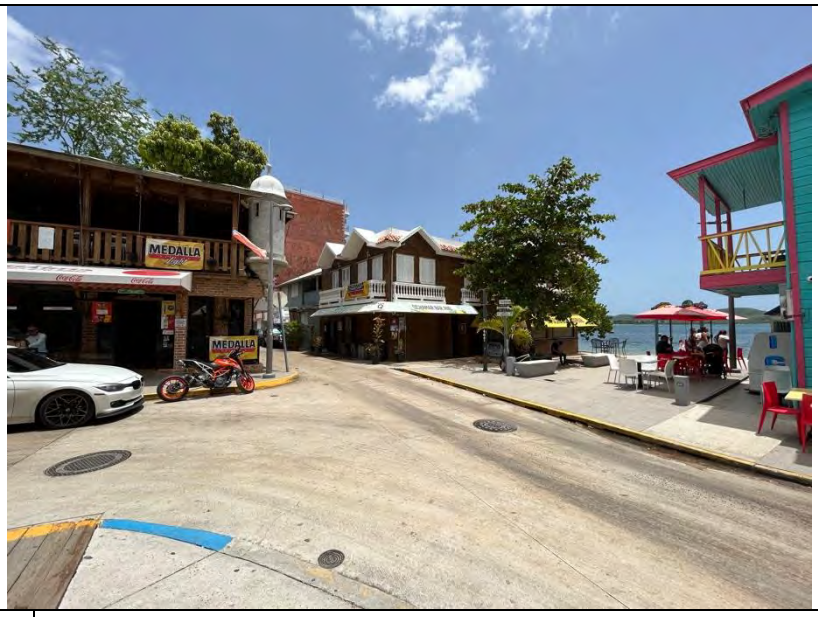


Photo #: 19	**Description:** José de Diego & Luis Muñoz Rivera Streets intersection.
Date: 8/14/23	**Direction:** SE



Photo #: 20	**Description:** Commercial establishments on José de Diego Street.
Date: 8/14/23	**Direction:** NW



Photo #: 21	**Description:** Commercial establishments on José de Diego Street.
Date: 8/14/23	**Direction:** N



Photo #: 22	**Description:** José de Diego Street, toward Hermógenes Pou Street.
Date: 8/14/23	**Direction:** SE



Photo #: 23	**Description:** José de Diego Street, toward Luis Muñoz Rivera Street.
Date: 8/14/23	**Direction:** NW



Photo #: 24	**Description:** Deck near *Caño Boquilla*, Hermógenes Pou Street.
Date: 8/14/23	**Direction:** NE



Photo #: 25	**Description:** Hermógenes Pou and Barbosa Streets intersection.
Date: 8/14/23	**Direction:** SW



Photo #: 26	**Description:** Hermógenes Pou Street, toward *Marina de Boquerón*.
Date: 8/14/23	**Direction:** NE



Photo #: 27	**Description:** Residential area, Hermógenes Pou Street.
Date: 8/14/23	**Direction:** SW



Photo #: 28	**Description:** *Marina de Boquerón* entrance, Hermógenes Pou Street.
Date: 8/14/23	**Direction:** SE



Photo #: 29	**Description:** Hermógenes Pou and PR-101 street intersection.
Date: 8/14/23	**Direction:** NW



Photo #: 30	**Description:** Residence (#3 on Table 1), north side of PR-101.
Date: 8/14/23	**Direction:** NW



Photo #: 31	**Description:** Gil Bouyet Street, entering from State Road PR-101.
Date: 8/14/23	**Direction:** NW



Photo #: 32	**Description:** PR-101, toward Margarita Pabón Public Plaza.
Date: 8/14/23	**Direction:** SW



Photo #: 33	**Description:** Residence (#4 on Table 1), north side of PR-101.
Date: 8/14/23	**Direction:** NE



Photo #: 34	**Description:** State Road PR-101, toward PR-307 intersection.
Date: 8/14/23	**Direction:** NE



Photo #: 35	**Description:** Residence (#5 on Table 1), south side of PR-101.
Date: 8/14/23	**Direction:** SE



Photo #: 36	**Description:** Residence (#6 on Table 1), south side of PR-101.
Date: 8/14/23	**Direction:** SE



Photo #: 37	**Description:** State Road PR-101, toward PR-307 intersection.
Date: 8/14/23	**Direction:** NE



Photo #: 38	**Description:** Residence (#7 on Table 1), State Road PR-101.
Date: 8/14/23	**Direction:** NW



Photo #: 39	**Description:** Residence (#8 on Table 1), State Road PR-101.
Date: 8/14/23	**Direction:** NW



Photo #: 40	**Description:** Commercial structure (#9 on Table), State Road PR-101.
Date: 8/14/23	**Direction:** SW



Photo #: 41	**Description:** State Road PR-101, toward PR-307 intersection.
Date: 8/14/23	**Direction:** NE



Photo #: 42	**Description:** PR-101, toward Margarita Pabón Public Plaza.
Date: 8/14/23	**Direction:** SW



Photo #: 43	**Description:** PR-101 & PR-307 intersection, Boquerón Town entrance.
Date: 8/14/23	**Direction:** NE



Photo #: 44	**Description:** PR-101 & PR-307 intersection, Boquerón Town entrance.
Date: 8/14/23	**Direction:** NW



Photo #: 45	**Description:** PR-101 & PR-307 intersection, Boquerón Town entrance.
Date: 8/14/23	**Direction:** SE

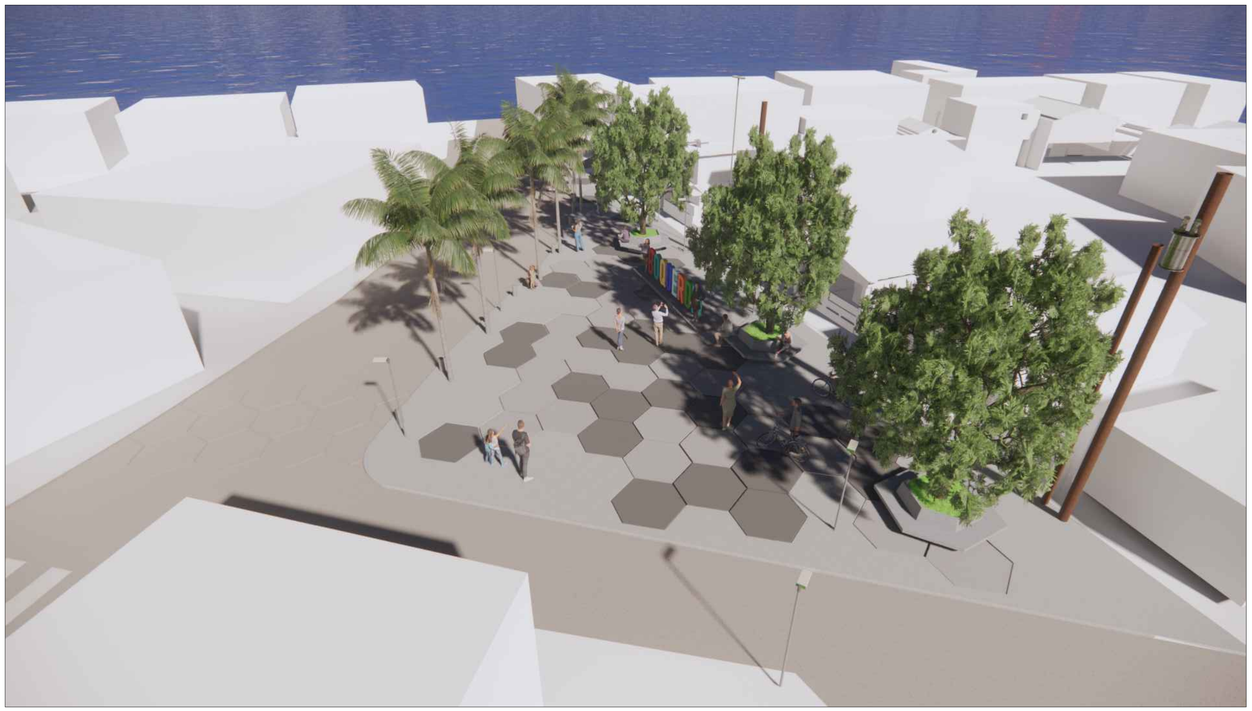
Attachment G

Design Plans

PR-CRP-000-847

REHABILITACIÓN Y EMBELLECIMIENTO DEL POBLADO BOQUERON

CABO ROJO, PUERTO RICO , 00622





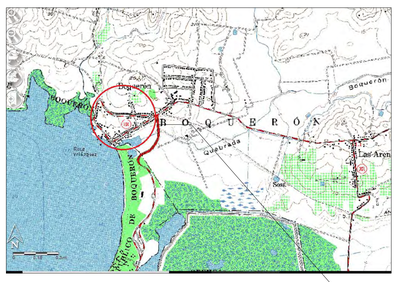
SITE

LOCATION

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | GEOLOCALIZADOR- MIPR

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFOROOMACIÓN GEOGRÁFICA | ESRI, HERE, GAROOMIN, INCREMENT P, NGA, USGS

DIRECCION FISICA: PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623.



SITE

TOPOGRAPHY

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | GEOLOCALIZADOR- MIPR

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFOROOMACIÓN GEOGRÁFICA | ESRI, HERE, GAROOMIN, INCREMENT P, NGA, USGS.

CALIFICACIÓN: DT-P
CLASIFICACIÓN PT: UNDEFINED
CLASIFICACIÓN PUT: SU (99%), VIAL (1%)
MAPAS DE CALIFICACIÓN: HOJA 037 DE CABO ROJO
DISTRITO SOBREPUESTO: UNDEFINED



SITE

FLOOD MAP

OBTAINED FROM: JUNTA DE PLANIFICACIÓN DE PUERTO RICO | MAPA NIVELES DE INUNDACIÓN BASE RECOMENDADOS

JUNTA DE PLANIFICACIÓN. PROGRAMA DE SISTEMA DE INFORMACIÓN GEOGRÁFICA | ESRI, HERE, GAROOMIN, INCREMENT P, NGA, USGS

ZONA INUND. ADVISORY :
Coastal A Zone (51.1%), VE (48.9%)

ZONA INUNDABILIDAD (FIRM):
AE (51.1%), VE (48.9%)

PANEL INUNDABILIDAD (ADVISORY): 72000C1545J

FLOODWAY: FLOODWAY

SUELO (NRCS): SNS (66.5%), SoA (27.9%), Tc (5.6%)

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GENERAL NOTES

1. THE PRECISE LOCATION OF ALL POWER, GAS, TELEPHONE, WATER AND DRAIN SHALL BE VERIFY IN FIELD. CONTRACTOR SHALL CONTRACT UTILITIES. LOCATE SHUT OFF VALVES AND PROCEED SAFELY ACCORDING TO THE RECOMMENDATION OF EACH UTILITY. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY INTERRUPTION OF THESE LINES AT NO COST TO THE OWNER.

2. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS AND REPORT ALL DISCREPANCIES TO THE ARCHITECT, PROJECT MANAGER OR INSPECTOR PRIOR TO THE COMMENCEMENT OF WORK.

3. WHERE DIMENSIONS ARE UNCLEAR, CONSULT THE ARCHITECT, PROJECT MANAGER OR INSPECTOR. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HIS WORK. ALL DIMENSIONS SHALL BE FIELD VERIFIED WHERE POSSIBLE. ALL DIMENSIONS ARE FINISHES DIMENSIONS UNLESS OTHERWISE INDICATED. ALL NEW WINDOW AND DOOR OPENINGS MUST BE VERIFIED ON SITE FOR DIMENSIONS ACCURACY BEFORE ORDERING MATERIAL.

4. THE CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER. THE CONTRACTOR MUST ASSUME INFOROOMATION PRESENT IN EITHER AND IN BOTH DOCUMENTS.

5. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE BUILDING AS SHOWN. MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY EMPLOYED BY THE RESPECTIVE TRADES. EACH SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, REFINISHING ANY AND ALL EXISTING WORK ALTERED BY EITHER OPERATION.

6. CONTRACTOR AND HIS SUB-CONTRACTORS SHALL TURN THE PROJECT OVER TO OWNER FREE FROM ALL CONSTRUCTION DEBRIS AND CLEAN

7. CONTRACTOR SHALL REPLACE AND/OR REPAIR PAVEMENT, STRUCTURES OR EQUIPMENT DETERIORATED OR DAMAGED IN ANY WAY BY THE CONSTRUCTION PROCESS WETHER OR NOT SPECIFICALLY STATED IN THE DRAWINGS.

8. CONTRACTOR SHALL TAKE MAXIMUM PRECAUTIONS IN ORDER TO PREVENT DAMAGE TO EQUIPMENT OR ADJACENT PROPERTY AND AVOID INJURIES TO PERSONNEL AND PEOPLE.

9. IT IS UNDERSTOOD THAT WHILE NOT EVERY DETAIL OF THE WORK IS SHOWN ON THE DRAWINGS OR SPECIFICATIONS, THE WORK INCLUDES ITEM INFERABLE FROM THE CONTRACTOR DOCUMENT. THE OWNER SHALL NOT BE HOLD RESPONSIBLE FOR THE ABSENCE OF ANY DETAIL THE CONTRACTOR MAY REQUIRE FOR ANY CONSTRUCTION WHICH MAY BE FOUND NECESSARY AS THE WORK PROGRESS. IF ANY ITEM OR SYSTEM IS EITHER SHOWN OR SPECIFIED, ALL MATERIAL AND EQUIPMENT NOROOMALLY FURNISHED WITH SUCH ITEMS AND/OR NEED TO MAKE A COMPLETE OPERATION INSTALLATION, SHALL BE PROVIDED WETHER MENTIONED OR NOT, OMITTING ONLY SUCH PARTS AS ARE SPECIFICALLY EXCEPTED.

10. THE DRAWINGS HAVE BEEN PREPARED ON THE BASIS OF OBSERVATION OF EXISTING CONDITIONS. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR CONCEALED SITE CONDITIONS.

11. PAINT: ALL SURFACE MUST BE SCRAPES, CLEANED, PRIMED BEFORE PAINTED. PAINT COLOR SCHEME TO BE SELECTED BY DESIGN AND CONSTRUCTION OFFICE COORDINATOR.

12. FURNISH GRAPHICS ON DRAWINGS ARE FOR SPACE DISTRIBUTION AND PLANNING PURPOSE, NOT PART OF PROJECT CONSTRUCTION, UNLESS IT IS MENTIONED TO BE REQUIRED.

SUBMITTAL REVIEW

APPROVED

REVIEW AND/OR APPROVAL NEITHER EXTENDS NOR ALTERS ANY CONTRACTUAL OBLIGATIONS OF THE ARCHITECT OR CONTRACTOR. REFER TO THE GENERAL CONDITIONS OF THE CONTRACT AND/OR DIVISION 1 OF THE SPECIFICATION FOR A DESCRIPTION OF THIS SUBMITTAL RESPONSE AND THE CONTRACTUAL SIGNIFICANCE.

SUBMITTAL REVIEW

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SUBMITTAL REVIEW

REVISE AND RESUBMIT

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SUBMITTAL REVIEW

REJECTED

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PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

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REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLICENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

TITLE SHEET

DRAWING No.

G1.0

G E N E R A L S I T E P L A N



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Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

GENERAL SITE PLAN

DRAWING No.

G1.1

1 GENERAL SITE PLAN
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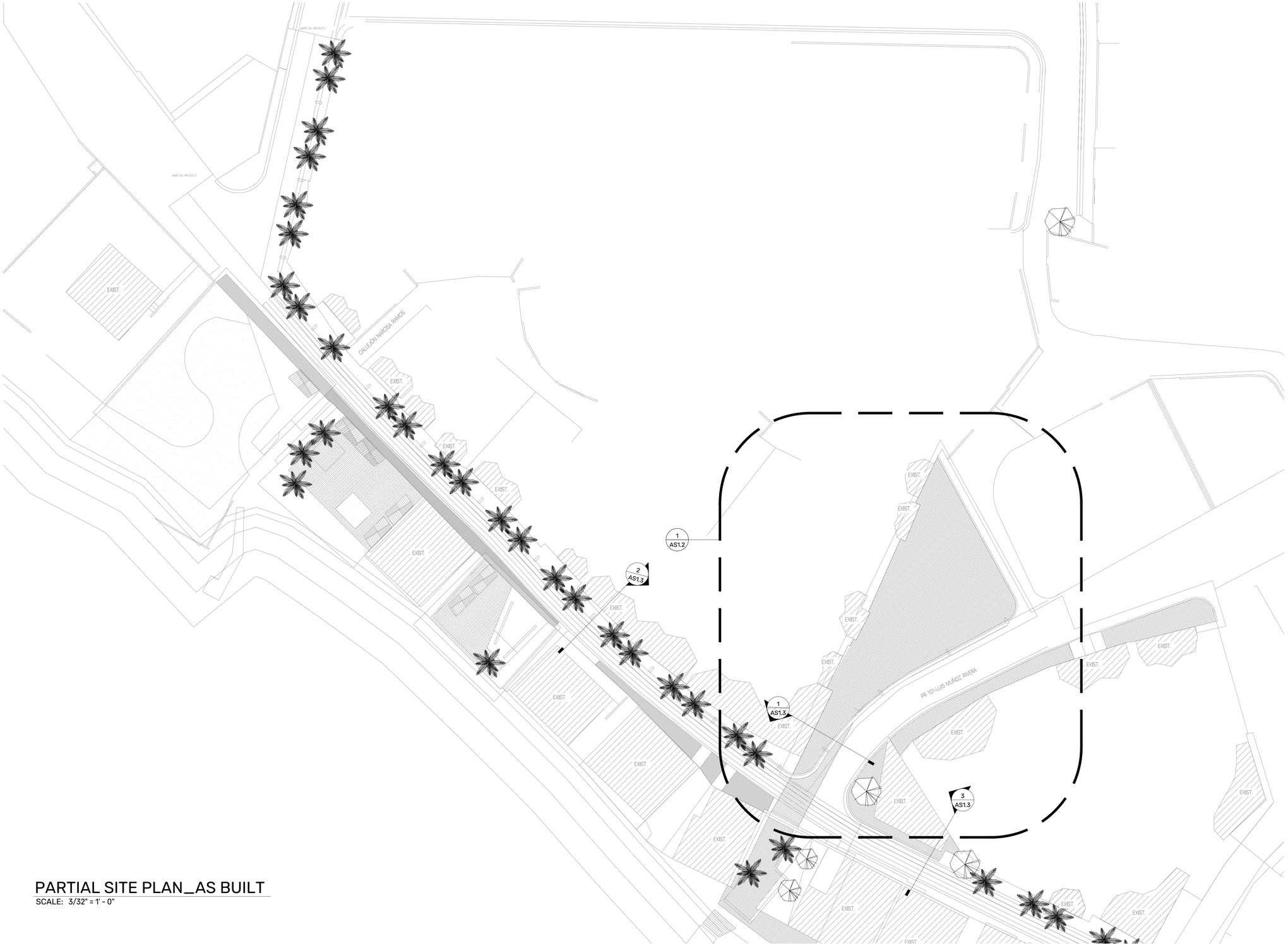
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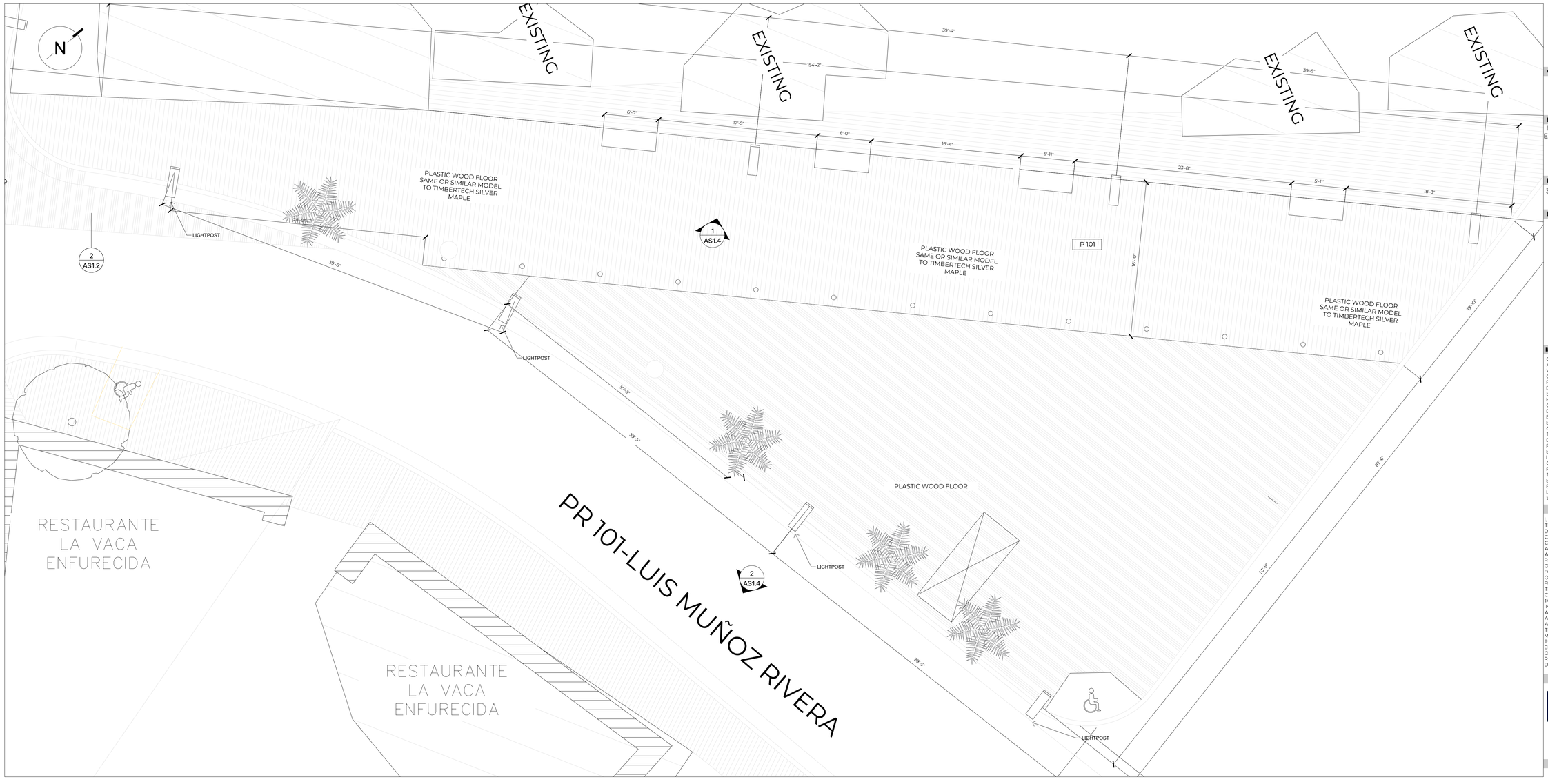

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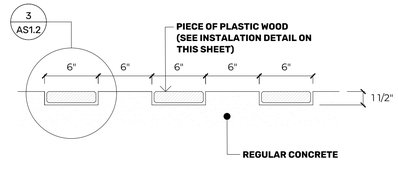

2 EXISTING PLASTIC WOOD PATTER OVER CONCRETE

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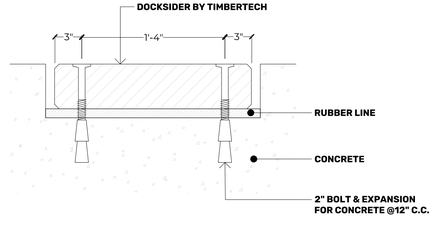

3 EXISTING PLASTIC WOOD PATTER OVER CONCRETE

SCALE: 1 1/2" = 1' - 0"

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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

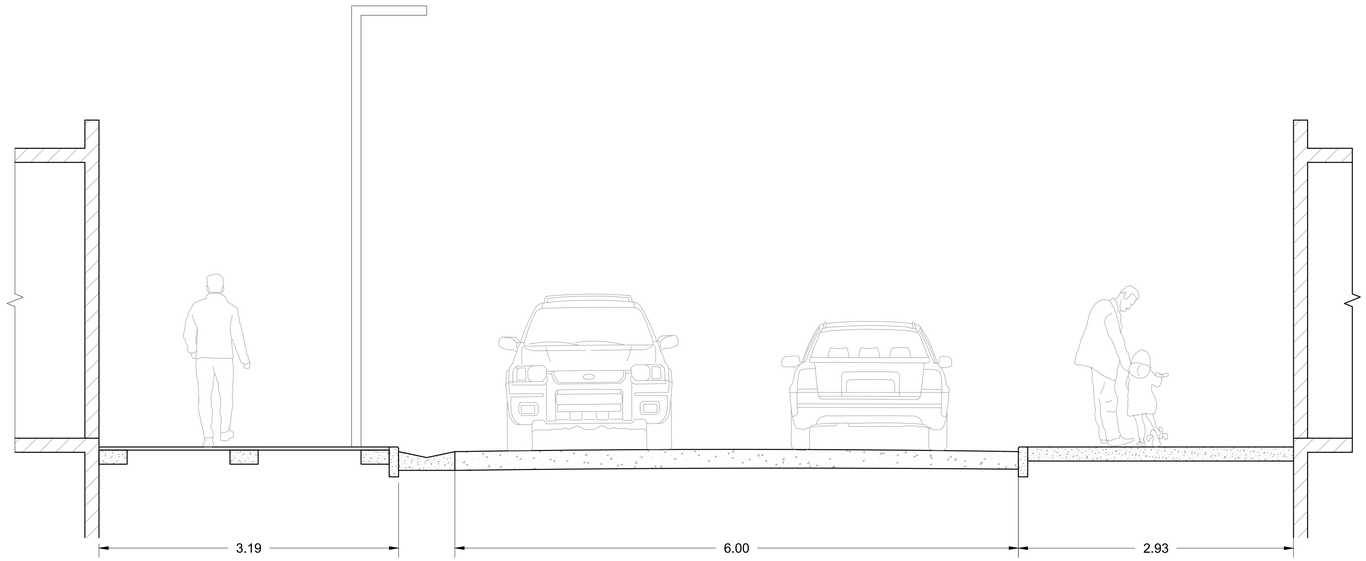
TITLE

EXISTING PUBLIC SQUARE_BLOW UP

DRAWING No.

AS1.2

E X I S T I N G S E C T I O N S



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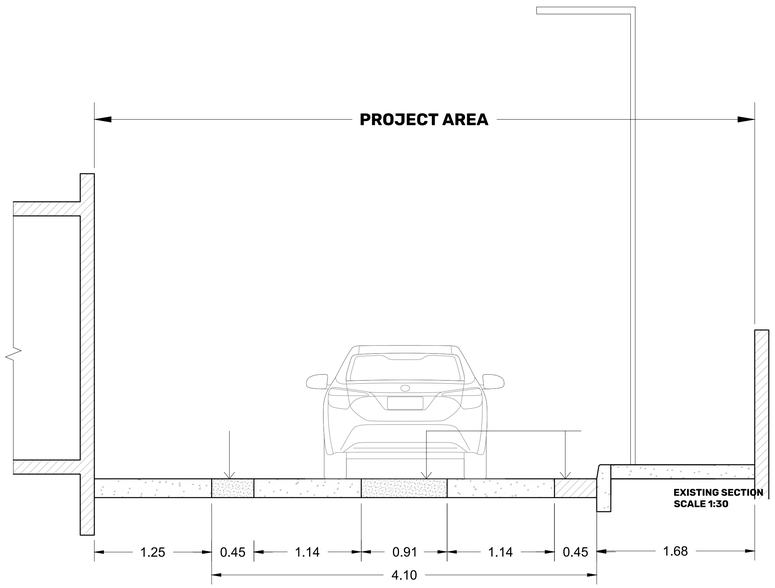

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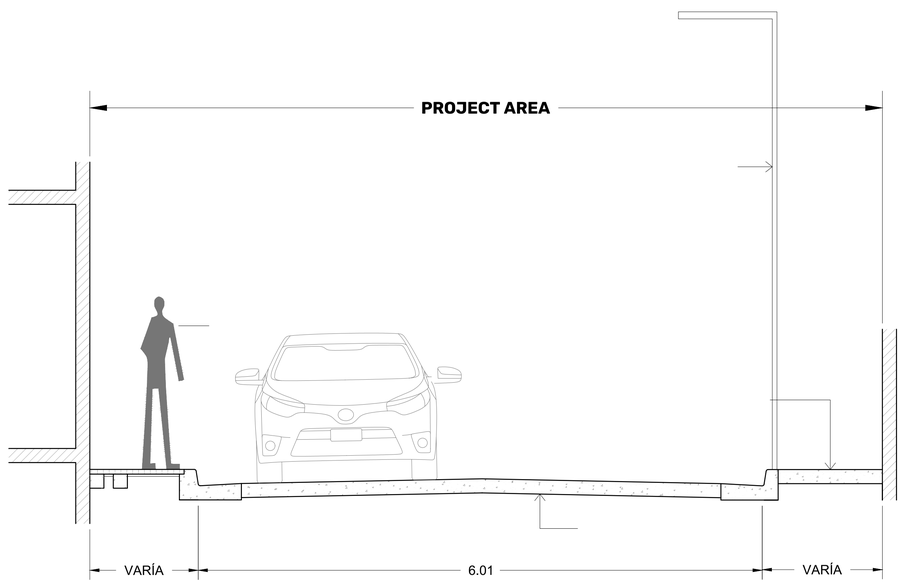

3 EXISTING SECTION
SCALE: 1:30

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Email: info@ingenium.group

SIGNATURE
William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING SECTIONS

DRAWING No.
AS1.3

E X I S T I N G E L E V A T I O N S



1 NORTHWEST ELEVATION - LUIS MUÑOZ RIVERA STREET - PUBLIC SQUARE
SCALE: NOT TO SCALE



EXISTING NORTH ELEVATION
MUÑOZ RIVERA STREET-ELEVATION A
SCALE: NTS

2 NORTH ELEVATION - JOSE DE DIEGO STREET
SCALE: NOT TO SCALE



EXISTING NORTH ELEVATION
MUÑOZ RIVERA STREET-ELEVATION B
SCALE: NTS

2 NORTH ELEVATION - JOSE DE DIEGO STREET
SCALE: NOT TO SCALE

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

IPG INGENIUM PROFESSIONAL GROUP

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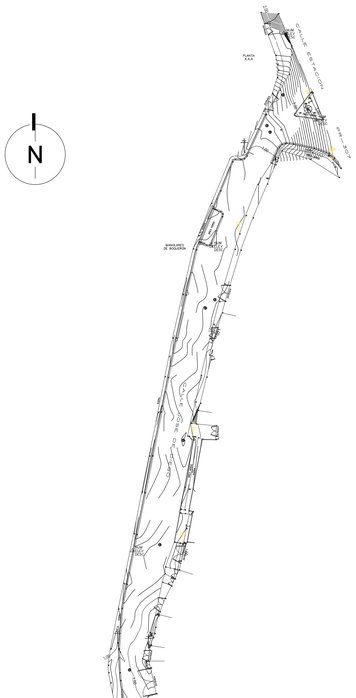
Progress Print:

TITLE
EXISTING ELEVATIONS

DRAWING No.
AS1.4

P R O P O S E D D E M O L I T I O N P L A N

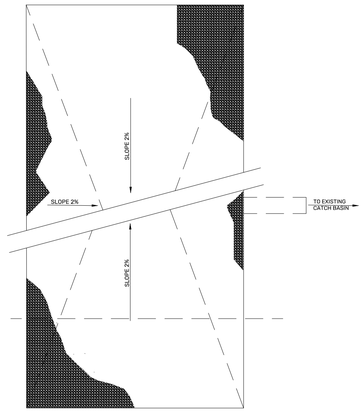

N
CALLE BRAULIO DUEÑO COLON
PLAZA S.A.P.
ANFITEATRO
CALLE GIL BOUYET
CALLE HERMOGENES POU
IGLESIA DE BOQUERON
PARADOR BOQUERON
ESTACIONAMIENTO
APARTAMENTOS ADOSADOS
PARQUE BOQUERON
CASA BLANCA CAFE BISTRO
CASA BLANCA
CASA BLANCA
CASA BLANCA

GENERAL EROSION & SEDIMENTS CONTROL NOTES

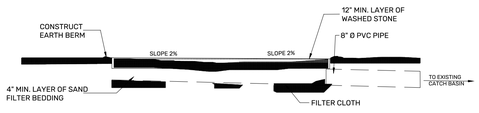
1 ALL CONSTRUCTION OF EROSION AND SEDIMENT CONTROL SHALL COMFORM TO EQB (JCA - JUNTA DE CALIDAD AMBIENTAL) STANDARDS AND AS DESCRIBED HEREIN.
2 AREAS TO BE GRADED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH SPECIFICATIONS. PRESERVE AND PROTECT ALL EXISTING GROUND VEGETATION AND TREES OUTSIDE OF THE CONSTRUCTION LIMITS OR SPECIFICALLY DESIGNATED TO REMAIN.
3 ALL EROSION CONTROL MEASURES SHALL BE PLACED IMMEDIATELY FOLLOWING SITE CLEARING AND GRUBBING AS SHOWN ON THE DRAWING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER INSTALLATION IS COMPLETED.
4 TOPSOIL SHALL BE REMOVED, STOCKPILED, AND SEEDED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5 THE CONSTRUCTION AREA SHALL BE ROUGH GRAPPED AS SHOWN ON THE DRAWING.
6 DIVERSION DITCHES, SWALES, AND SLOPES SHALL BE CONSTRUCTED AND GRASSED AS SOON AS POSSIBLE TO MINIMIZE EROSION. RIP RAP SHALL BE PLACED AS SHOWN ON THE PLANS AND AS REQUIRED.

CONSTRUCTION SEQUENCE

THE CONSTRUCTION SEQUENCE HAS BEEN DIVIDED IN TWO STAGES : STAGE I INCLUDES THE CONSTRUCTION AND INSTALLATION OF ALL THE NECESSARY MEASURES TO CONTROL EROSION AND SEDIMENTATION WITHIN THE PROJECT SITE : INMEDIATELY AFTER SITE CLEARING. STAGE 2 INCLUDES EATHWORK AND ALL RELATED ACTIVITIES. DURING THIS STAGE FILLING OF SELECTED AREAS SHALL TAKE PLACE.



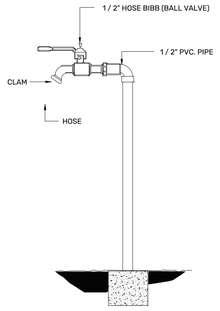
PLAN



SECTION A

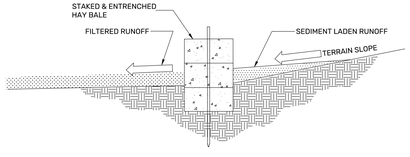
1 TYPICAL VEHICLE TIRE WASHING PAD

SCALE: NOT TO SCALE



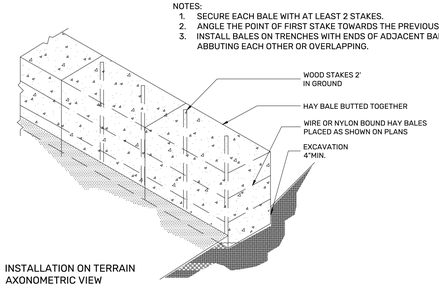
2 TYPICAL TEMPORARY HOSE BIBB INSTALLATION DETAIL

SCALE: NOT TO SCALE



SECTION VIEW

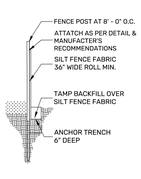
NOTES:
1. SECURE EACH BALE WITH AT LEAST 2 STAKES.
2. ANGLE THE POINT OF FIRST STAKE TOWARDS THE PREVIOUSLY PLACED BALE.
3. INSTALL BALES ON TRENCHES WITH ENDS OF ADJACENT BALES TIGHTLY ABBUTING EACH OTHER OR OVERLAPPING.



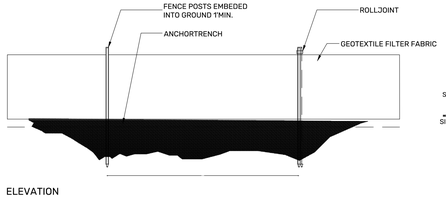
INSTALLATION ON TERRAIN
AXONOMETRIC VIEW

3 TYPICAL HAY BALE ANCHORING DETAILS

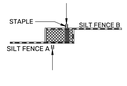
SCALE: NOT TO SCALE



SECTION



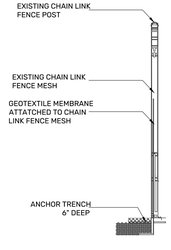
ELEVATION



WOOD POST TOP VIEW

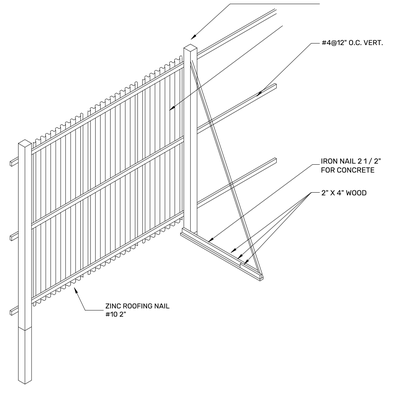
4 TYPICAL SILT FENCE DETAILS

SCALE: NOT TO SCALE

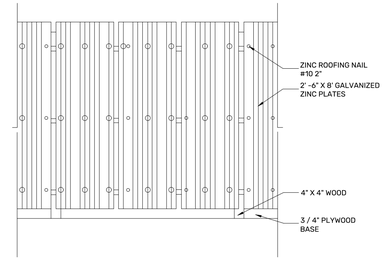


5 TYPICAL ALTERNATIVE SILT FENCE INSTALLATION DETAIL

SCALE: NOT TO SCALE



AXONOMETRIC VIEW



ELEVATION VIEW

6 TYPICAL TEMPORARY FENCE DETAILS

SCALE: NOT TO SCALE

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Progress Print:

TITLE

PLAN CES & TYPICAL DETAILS

DRAWING No.

C1.1

P R O P O S E D J O S E D E D I E G O L A N D S C A P E P L A N



LEGEND

- AS SHOWN IN THE DRAWINGS: PROPOSED GREEN AREAS. TOTAL AREA = 524 m L x 1 m w
- PROPOSED " CUPEY TREES" IN THE MARGARITA PABON SQUARE [3 UNITS]
- PALM PLANTING [2 UNITS]

FOR MORE DETAILS SEE SHEET LA1.1

1 PROPOSED GENERAL SITE PLANTING
SCALE: NOT TO SCALE

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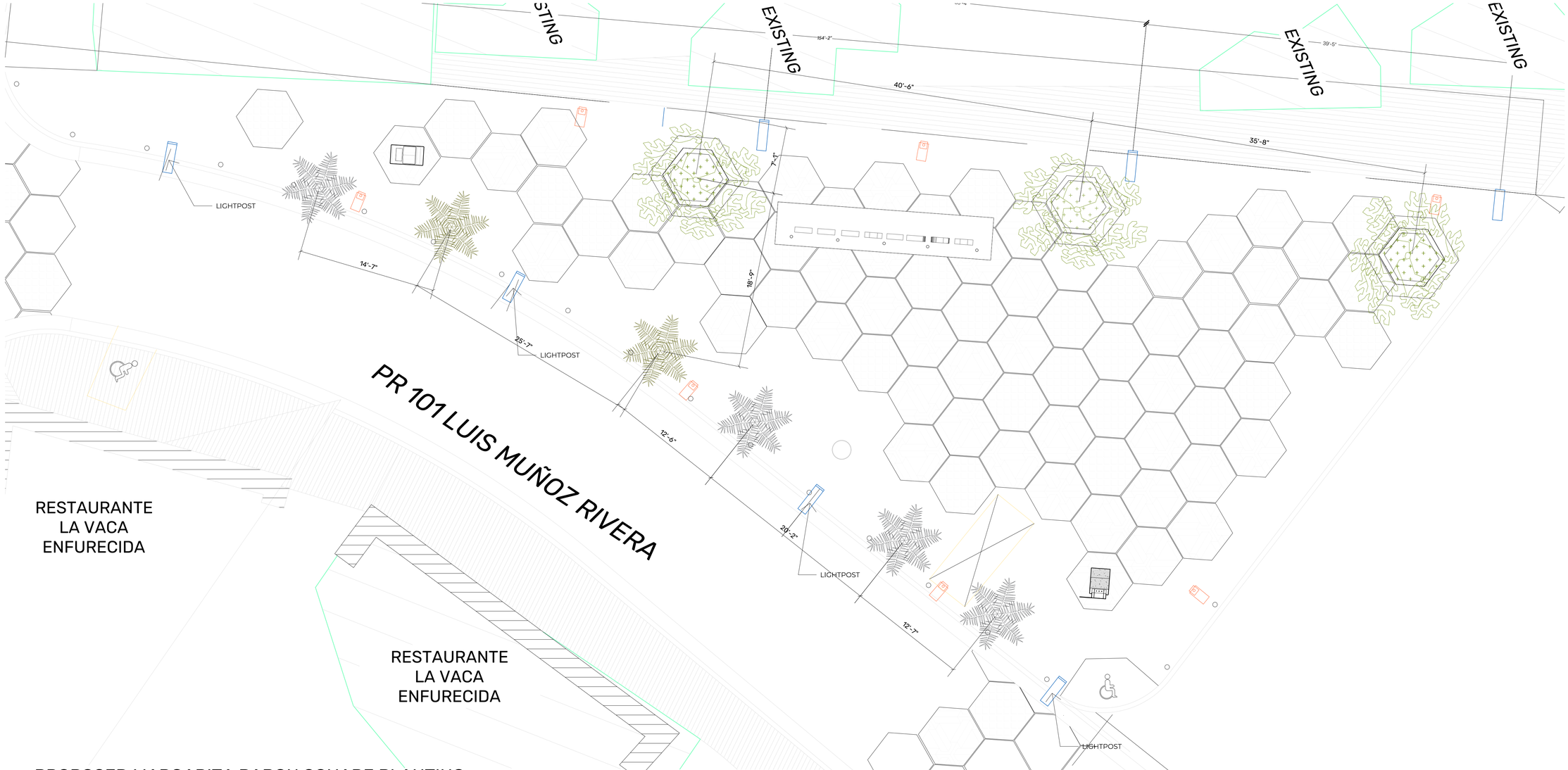
PROPOSED JOSE DE DIEGO LANDSCAPE PLAN

DRAWING No.
LA1.0

PROPOSED URBAN SQUARE LANDSCAPE PLAN



PROPOSED MARGARITA PABON SQUARE PLANTING

SCALE: NOT TO SCALE



PALM TREE IMAGE



CUPEY TREE IMAGE

LEGEND

SYMBOL	ITEM	DESCRIPTION
	NEW CUPEY TREE PLANTING	PLANT NEW CLUSIA ROSEA WITH ADVANCED GROWTH (8' HEIGHT). ITS RECOMMENDED TO ADQUIRE THIS SPECIES IN AN ADVANCED GROWTH PLANT NURSERY.
	NEW CUPEY TREE PLANTING	INSTALL NEW PLANTING ON AREAS DESIGNATED FOR CUPEY TREE. SIZE REQUIREMENT WILL BE 6'-0" W X 6'-0"L IN ACORDANCE WITH PATTERN DESIGN ON STAMPING DESIGN SHOWN ON SHEET A5.1
	NEW PLANTING AREA	PLANT NEW LIVISTONA CHINENSIS WITH ADVANCED GROWTH. (8' HEIGHT) ITS RECOMMENDED TO ADQUIRE THIS SPECIES IN AN ADVANCED GROWTH PLANT NURSERY.
	EXISTING PALM TREE PLANTING	EXISTING LIVISTONA CHINENSIS TO REMAIN.

SITE CONDITIONS

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF ALL SURFACE AND SUB-SURFACE CONDITIONS, AND TO NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING, OF ANY CIRCUMSTANCES THAT WOULD NEGATIVELY IMPACT THE HEALTH OF PLANTINGS. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

1. SHOULD SUBSURFACE DRAINAGE OR SOIL CONDITIONS BE ENCOUNTERED WHICH WOULD BE DETRIMENTAL TO GROWTH OR SURVIVAL OF PLANT MATERIAL, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING, STATING THE CONDITIONS AND SUBMIT A PROPOSAL COVERING COST OF CORRECTIONS. IF THE CONTRACTOR FAILS TO NOTIFY THE OWNER'S REPRESENTATIVE OF SUCH CONDITIONS, HE/SHE SHALL REMAIN RESPONSIBLE FOR PLANT MATERIAL UNDER THE WARRANTY CLAUSE OF THE SPECIFICATIONS.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE LOCAL GROWING CONDITIONS, AND IF ANY SPECIFIED PLANTS WILL BE IN CONFLICT WITH THESE CONDITIONS. REPORT ANY POTENTIAL CONFLICTS, IN WRITING, TO THE OWNER'S REPRESENTATIVE.

C. THIS SPECIFICATION REQUIRES THAT ALL PLANTING SOIL AND IRRIGATION (IF APPLICABLE) WORK BE COMPLETED AND ACCEPTED PRIOR TO THE INSTALLATION OF ANY PLANTS.

1. PLANTING OPERATIONS SHALL NOT BEGIN UNTIL SUCH TIME THAT THE IRRIGATION SYSTEM IS COMPLETELY OPERATIONAL FOR THE AREA(S) TO BE PLANTED, AND THE IRRIGATION SYSTEM FOR THAT AREA HAS BEEN PRELIMINARILY OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

D. ACTUAL PLANTING SHALL BE PERFORMED DURING THOSE PERIODS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED HORTICULTURAL PRACTICES.

1. DO NOT INSTALL PLANTS INTO SATURATED OR FROZEN SOILS. DO NOT INSTALL PLANTS DURING INCLEMENT WEATHER, SUCH AS RAIN OR SNOW OR DURING EXTREMELY HOT, COLD OR WINDY CONDITIONS.

1.18 PLANTING AROUND UTILITIES

A. CONTRACTOR SHALL CAREFULLY EXAMINE THE CIVIL, RECORD, AND SURVEY DRAWINGS TO BECOME FAMILIAR WITH THE EXISTING UNDERGROUND CONDITIONS BEFORE DIGGING.

B. DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER THAT WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL PARTIES CONCERNED MUTUALLY AGREE UPON REMOVAL.

C. NOTIFICATION OF LOCAL UTILITY LOCATOR SERVICE. INSERT PHONE NUMBER, IS REQUIRED FOR ALL PLANTING AREAS: THE CONTRACTOR IS RESPONSIBLE FOR KNOWING THE LOCATION AND AVOIDING UTILITIES THAT ARE NOT COVERED BY THE LOCAL UTILITY LOCATOR SERVICE.

NOTE TO SPECIFIER: INSERT THE TELEPHONE NUMBER AND CORRECT NAME OF THE LOCAL UTILITY LOCATOR SERVICE IF AVAILABLE.

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

PROPOSED URBAN SQUARE LANDSCAPE PLAN

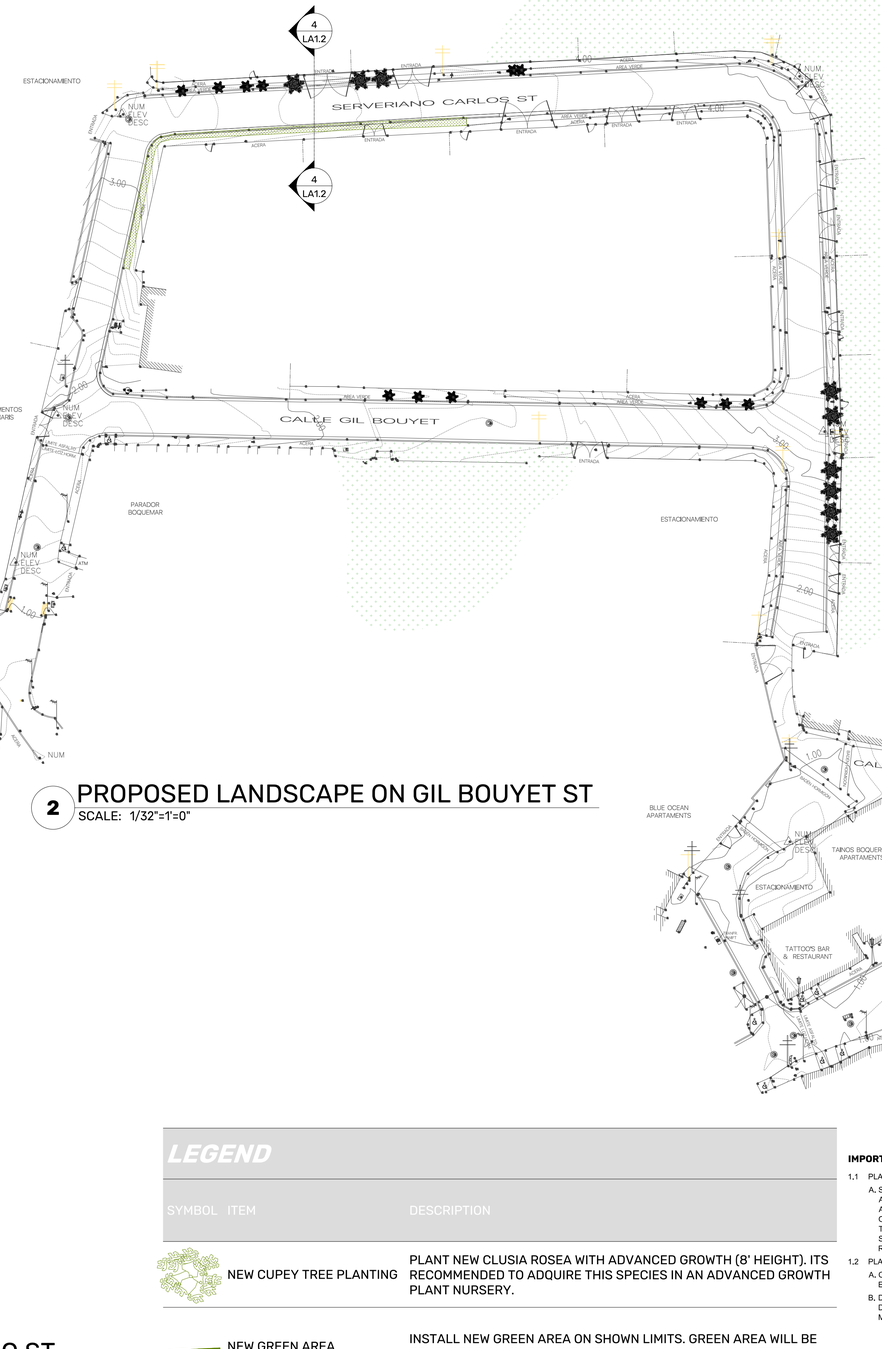
DRAWING No.

LA1.1



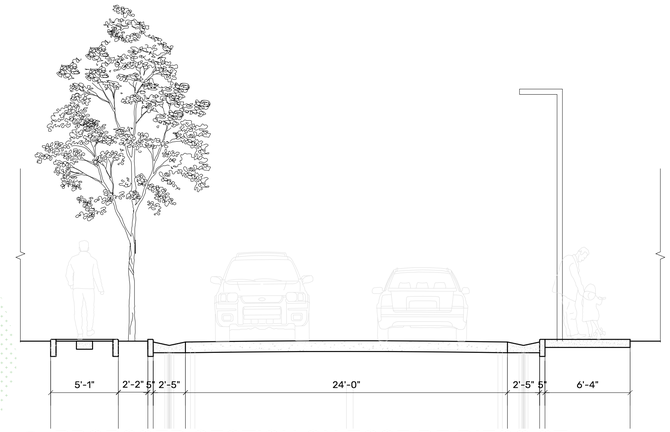
1 PROPOSED LANDSCAPE ON JOSE DE DIEGO ST

SCALE: 1/32"=1'=0"



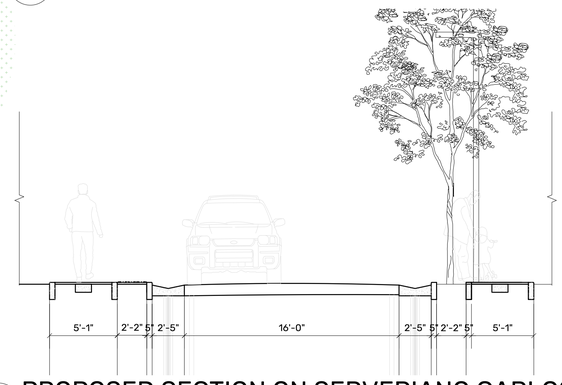
2 PROPOSED LANDSCAPE ON GIL BOUYET ST

SCALE: 1/32"=1'=0"



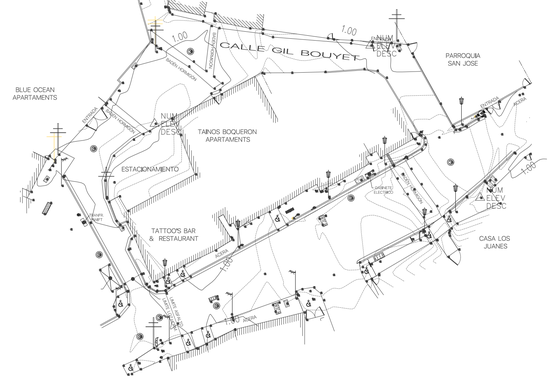
3 PROPOSED SECTION ON JOSE DE DIEGO ST

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



4 PROPOSED SECTION ON SERVERIANO CARLOS ST

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



LEGEND

SYMBOL	ITEM	DESCRIPTION
	NEW CUPEY TREE PLANTING	PLANT NEW CLUSIA ROSEA WITH ADVANCED GROWTH (8' HEIGHT). ITS RECOMMENDED TO ADQUIRE THIS SPECIES IN AN ADVANCED GROWTH PLANT NURSERY.
	NEW GREEN AREA	INSTALL NEW GREEN AREA ON SHOWN LIMITS. GREEN AREA WILL BE DEVELOPED IN ACORDANCE WITH DETAIL 4 SHOWN ON SHEET LA1.2

IMPORTANT NOTES

1.1 PLANT SUBSTITUTIONS FOR PLANTS NOT AVAILABLE

A. SUBMIT ALL REQUESTS FOR SUBSTITUTIONS OF PLANT SPECIES, OR SIZE TO THE OWNER'S REPRESENTATIVE, FOR APPROVAL, PRIOR TO PURCHASING THE PROPOSED SUBSTITUTION. REQUEST FOR SUBSTITUTION SHALL BE ACCOMPANIED WITH A LIST OF NURSERIES CONTACTED IN THE SEARCH FOR THE REQUIRED PLANT AND A RECORD OF OTHER ATTEMPTS TO LOCATE THE REQUIRED MATERIAL. REQUESTS SHALL ALSO INCLUDE SOURCES OF PLANTS FOUND THAT MAY BE OF A SMALLER OR LARGER SIZE, OR A DIFFERENT SHAPE OR HABIT THAN SPECIFIED, OR PLANTS OF THE SAME GENUS AND SPECIES BUT DIFFERENT CULTIVAR ORIGIN, OR WHICH MAY OTHERWISE NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS, BUT WHICH MAY BE AVAILABLE FOR SUBSTITUTION.

1.2 PLANTING AROUND UTILITIES

A. CONTRACTOR SHALL CAREFULLY EXAMINE THE CIVIL, RECORD, AND SURVEY DRAWINGS TO BECOME FAMILIAR WITH THE EXISTING UNDERGROUND CONDITIONS BEFORE DIGGING.

B. DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER THAT WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL PARTIES CONCERNED MUTUALLY AGREE UPON REMOVAL.

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

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Puerto Rico

FILE

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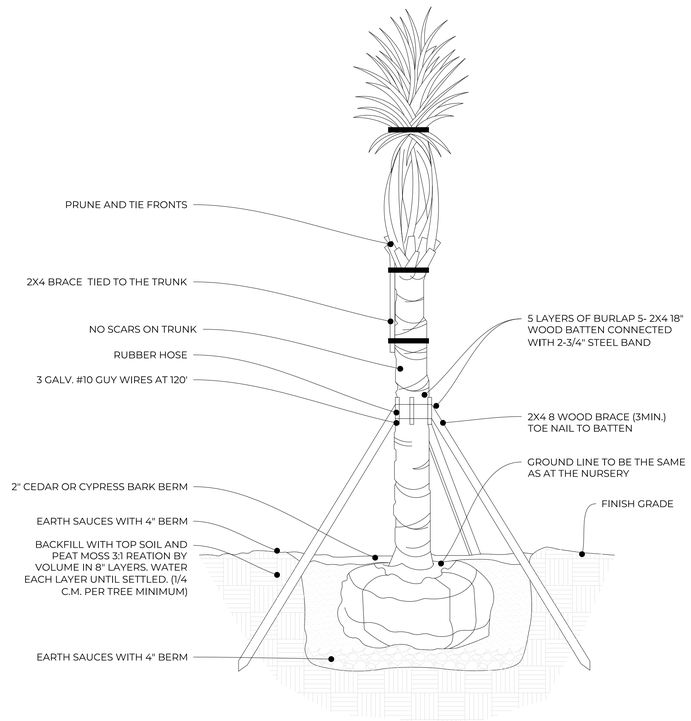
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED LANDSCAPE PLAN_DETAILS

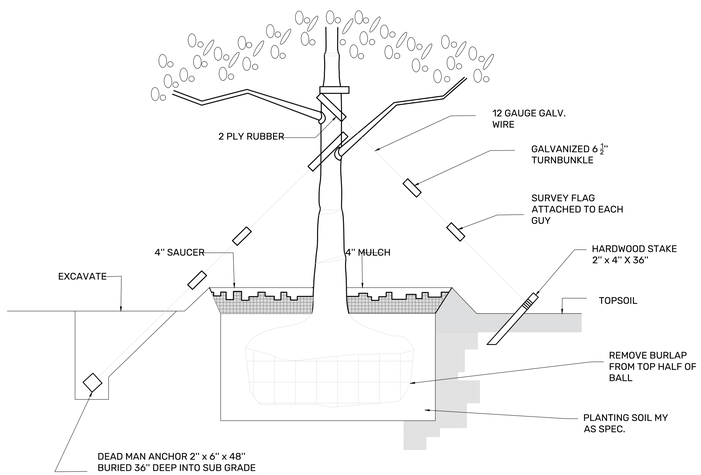
DRAWING No.

LA1.2



1 PALM TREE APPLICATION METHOD

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

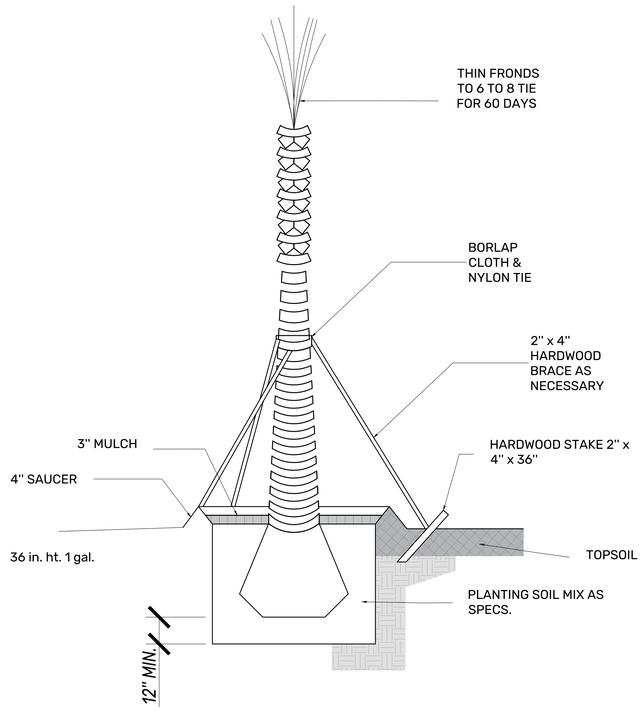


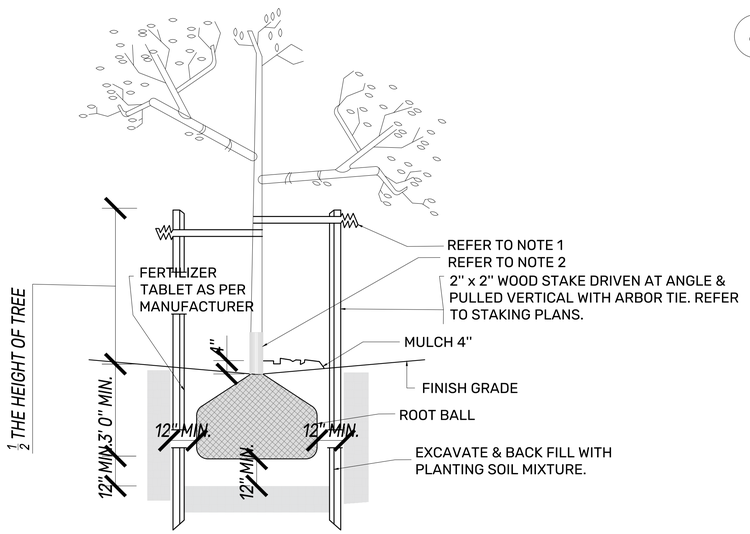
NOTES:

1. PROVIDED FERTILIZER TABLETS AS PER MANUFACTURER.
2. LOCATE GUY WIRES ABOVE LIMES 1/3" TO 1/2" TREE HEIGHT.
3. GUY TREES ABOVE 4" CAL.

2 TREE APPLICATION METHOD

SCALE: NOT TO SCALE

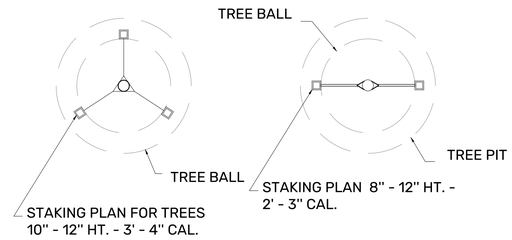




NOTES:

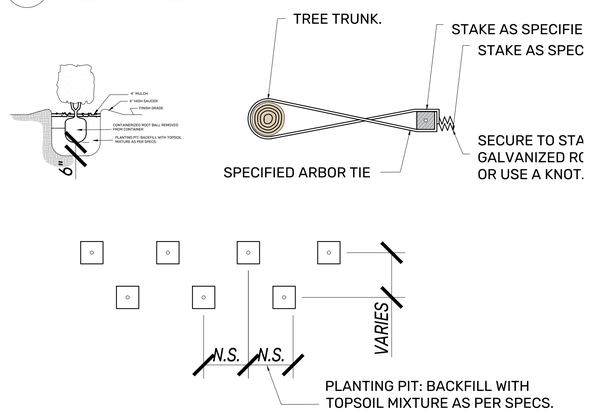
1. GREEN ARBOR TIE OF FLAT WOVEN PROPYLENE MATERIAL AS MANUFACTURED BY DEEP ROOT. 3/4" WIDE AND 900 LB. BREAK STRENGTH.

2. 9" HIGH ARBOR GARD AS MANUFACTURED BY DEEP ROOT.



3 TYPICAL STAKING PLAN

SCALE: NOT TO SCALE



4 TYPICAL PLANTING PIT

SCALE: NOT TO SCALE

LANDSCAPE WORK NOTES:

1. COSTS
   LANDSCAPING WORK CONSTRUCTION SHALL BE CLEARLY OPTIMIZED, INCLUDING UNIT PRICES.
2. WATER
   THE CONTRACTOR IS RESPONSIBLE FOR WATER TRANSPORTATION IN THE EVENT NO WATER IS AVAILABLE ON SITE.
3. MAINTENANCE
   MAINTENANCE PERIOD BEGINS AFTER FINAL ACCEPTANCE AND EXTENSIONS FOR (12) MONTHS THEREAFTER. REFER TO WRITTEN SPECIFICATIONS.
4. PALMS
   SPECIFIED HEIGHT OF PALM TREES DO NOT INCLUDE PALM FRONDS OR LEAVES. SPECIFIED HEIGHT (8'-0" HEIGHT) IS FOR CLEARLY DEFINED TRUNK. THIS NOTE APPLIES TO CUPEY TREES PROPOSED IN SQUARE.
5. FERTILIZER FOR TREES AND PALMS, APPLY COMMERCIAL FERTILIZER PLANT FOOD TABLETS: "AGRIFORM". TABLETS SHALL BE TIGHTLY COMPRESSED, LONG LASTING, TWO (2) YEARS, SLOW RELEASE FERTILIZER DELIVERED TO THE SITE ORIGINAL CONTAINERS BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS OF 20-10-15. TABLETS SHALL WEIGHT FIVE (5), TEN (10) OR TWENTY-ONE (21) GRAMS WITH A POTENTIAL ACIDITY OF NO MORE THAN 5% BY WEIGHT.
6. PLANTING SOIL MIXTURE SHALL BE FREE OF EXTRANEOUS MATTER AND WEEDS AND SHALL CONSIST OF THREE (3) PARTS TOPSOIL AND ONE (1) PART ORGANIC MATTER.
7. LANDSCAPE CONTRACTOR SHALL COORDINATE WITH OWNER LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORKS.
8. TOPSOIL
   INSTALL 4 IN. MINIMUM DEPTH AT PLANTING AND LAWN AREAS, 12 IN. MINIMUM BELOW TREES.
9. ROOT BARRIERS
   INSTALL ROOT BARRIERS ONLY IN PLANTING STRIPS WHERE INDICATED.

PROJECT ADDRESS
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REGISTER No.
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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED LANDSCAPE PLAN DETAILS

DRAWING No.
LA1.3

A R C H I T E C T U R A L N O T E S A N D S Y M B O L S

GENERAL NOTES:

1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.

2. REFER TO THE GENERAL CONDITIONS AND DIVISION 1 "GENERAL REQUIREMENTS IN THE SPECIFICATIONS.

3. CONTRACTOR AND ALL TRADES SHALL NOTE REQUIREMENTS OF "GENERAL NOTES" ON ALL SHEETS.

4. WHERE INFORMATION MAY BE AT VARIANCE BETWEEN PLANS AND SPECIFICATIONS, THE PLANS SHALL GOVERN. HOWEVER, IF CERTAIN INFORMATION IS NOTED ONLY ON THE PLANS OR ONLY IN THE SPECIFICATIONS, THE INFORMATION WILL BE CONSIDERED AS VALID AS BEING NOTED ON PLANS AND IN THE SPECIFICATIONS.

5. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY EXISTING CONDITION AND IDENTIFY VISIBLE PROBLEM AREAS OR DIFFICULTIES IN ORDER TO INCLUDE ALL COST IN BASE BID.

6. IF SPACE IS AVAILABLE, THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS, EQUIPMENTS AND TOOLS ON THE SITE IN AN AREA APPROVED BY THE OWNER. THE CONTRACTORS ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS, EQUIPMENTS AND TOOLS.

7. THE GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT/ ENGINEER PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS NOTED OTHERWISE) AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.

9. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ENGINEER APPROVAL FOR ALL ITEMS CALLED FOR OR INDICATED ON PLANS BUT NOT SPECIFICALLY DETAILED. WHERE FURTHER CLARIFICATION FOR CONSTRUCTION IS REQUIRED, THE ARCHITECT/ ENGINEER WILL SUBMIT DETAILS ON REQUEST.

10. ALL WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS AND DRAWINGS. THE LATEST EDITION OF THE APPLICABLE CODES (FOR ANY SPECIFIC WORK) SHALL BE FALLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT IN WHICH CASE LOCAL REGULATIONS SHALL GOVERN.

11. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.

12. REFER TO ALL CONSTRUCTION DOCUMENTS FOR REQUIREMENTS WHICH MAY AFFECT THE WORK IN ANOTHER DISCIPLINE AND COORDINATE WORK.

13. DIMENSIONS ARE FACE OF CONCRETE, FACE OF MASONRY, AND CENTER LINE OF ANY PARTITIONS UNLESS INDICATED OTHERWISE.

14. REFER TO DETAILS FOR ADDITIONAL DIMENSIONAL INFORMATION.

15. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES AND THE LOCATION OF DEPRESSED FLOOR AREAS.

16. ELEVATIONS INDICATED ON THE GENERAL, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION AND PLUMBING DRAWINGS AMONG OTHERS ARE BASED ON AN ASSIGNED REFERENCE ELEVATION OF THE CURRENT FINISH FLOOR ELEVATION. THE ACTUAL FIRST FLOOR ELEVATIONS ARE BASED ON THE DATUM SHOWN ON THE TOPOGRAPHIC AS–BUILT, EXISTING GRADING PLAN AND/OR THE PROPOSED GRADING PLAN SHEETS.

17. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS AS THEY SHALL BE PROVIDED FOR WHETHER SHOWN ON THESE DRAWINGS OR NOT. GENERAL CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB–CONTRACTORS PRIOR TO CONSTRUCTION.

18. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST, FROM THE ARCHITECT/ ENGINEER NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.

19. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE PLANS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT/ENGINEER IN WRITING AT LEAST TEN (10) DAYS PRIOR TO THE BID DATE.

20. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".

21. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.

22. THE STRUCTURE AS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FRAMEWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS.

23. SEE PLANS AND SPECIFICATIONS FOR ALL WORKS REQUIRING INSPECTION, TESTING AND/OR CERTIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THOSE WORKS.

24. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN AT ALL TIME THE CONSTRUCTION SITE. THE CONTRACTOR ALSO SHALL BE RESPONSIBLE OF REMOVE AND DISPOSE OUT OF PROPERTY ALL THE DEBRIS AND GARBAGE GENERATED BY THE CONSTRUCTION WORKS.

25. THE CONTRACTOR SHALL MADE ALL REASONABLE EFFORTS TO RECYCLE AND RECOVER CONSTRUCTION AND DEMOLITION WASTE FROM THE PROJECT. A MINIMUM OF 50% BY WEIGHT, OF TOTAL PROJECT SOLID WASTE SHALL BE DIVERTED FROM THE LANDFILL IN ACCORDANCE WITH THE EXECUTIVE ORDER 13423 "STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY AND TRANSPORTATION MANAGEMENT" JANUARY 24, 2007.

26. THE CONTRACTOR SHALL PROVIDE ON–SITE INSTRUCTIONS FOR SEPARATING, HANDLING, RECYCLING SALVAGE, REUSE AND RETURN METHODS TO BE USED BY ALL PARTIES AT THE APPROPRIATE STAGES OF THE PROJECT. RECORDS SHALL BE MAINTAINED TO DOCUMENT THE QUANTITY OF WASTE DISPOSED OF BY LANDFILL OR INCINERATION. THE CONTRACTOR SHALL SUBMIT THIS REPORT AND THE DISPOSAL MANIFESTO OF ALL NON–HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE GENERATION.

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING, FOLLOW UP AND OBTAINING ALL APPLICABLE PERMITS FOR THE REALIZATION OF THE PROJECT AS PER JOINT PERMIT REGULATIONS FOR BUILDING PERMITS AND LAND USE ADOPTED BY THE PERMIT MANAGEMENT OFFICE (OGPE IN SPANISH) UNDER LAW 161 AND FOR ANY AUTONOMOUS MUNICIPALITY OF THE COMMONWEALTH OF PUERTO RICO. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

SINGLE OPERATIONAL INCIDENTAL PERMIT (PUI) AND/OR PERMITS FOR INSTALLATION OF SIGNS AMONG OTHERS.

ABBREVIATIONS:

A
- ø — DIAMETER OR ROUND
- # — POUND OR NUMBER
- A/C — AIR CONDITIONER
- AHU — AIR HANDLING UNIT
- ALUM. — ALUMINUM
- APPX. — APPROXIMATE
- ARCH. — ARCHITECTURAL
- ASH — AUTOMATIC SPRINKLER HEAD
- ASR — AUTOMATIC SPRINKLER RISER
- ASU — AIR SUPPLY UNIT
- AUX. — AUXILIARY
- AV — AUDIO VISUAL
- AVG. — AVERAGE
- AVT — AIR VENT

B
- BD. — BOARD
- BLDG. — BUILDING
- BLKG. — BLOCKING
- BM. — BEAM
- BPL — BASE PLATE
- BRG. — BEARING
- BRCG. — BRACING

C
- CAB. — CABINET
- CAV. — CAVITY
- CEM. — CEMENT
- CB — CATCH BASIN
- CBP — CEMENT BOARD WITH PLASTER
- CJ — CONTROL JOINT
- CL — CENTER LINE
- CLG. — CEILING
- CLO. — CLOSET
- CMU — CONCRETE MASONRY UNIT
- CO — CLEAN OUT
- COL. — COLUMN
- CONC. — CONCRETE
- CONF. — CONFERENCE
- CONSTR— CONSTRUCTION
- CONT. — CONTINUOS
- CORR. — CORRIDOR
- CS — CONCRETE SEALED
- CT — CERAMIC TILE
- CU FT — CUBIC FEET
- CU YD — CUBIC YARD
- CW — COLD WATER PIPING

D
- D — DEEP DEPTH
- DBL. — DOUBLE
- DET. — DETAIL
- DIA. — DIAMETER
- DIM. — DIMENSION
- DN. — DOWN
- DMPR. — DAMPER
- DR. — DOOR
- DS. — DOWNSPOUT
- DWG. — DRAWING

E
- EA. — EACH
- EF — EACH FACE
- ELEV. — ELEVATION
- ELEC. — ELECTRICAL
- EQ — EQUAL/–LY
- EQUIP. — EQUIPMENT
- EXIST. — EXISTING
- EXP. — EXPANSION
- EXT. — EXTERIOR

F
- F/ — FACE OF
- FD — FLOOR DRAIN
- FE — FIRE EXTINGUISHERS
- FF — FINISH FLOOR
- FDTN. — FOUNDATION
- FH — FIRE HYDRANT
- FIN. — FINISH
- FLUOR. — FLUORESCENT
- FR. — FRAME
- FRTW — FIRE RETARDANT TREATED WOOD
- FTG. — FOOTING

G
- GA. — GAGE
- GALV. — GALVANIZED
- GEN. — GENERAL
- GWB — GYPSUM WALL BOARD

H
- HB — HOSE BIBB
- HC — HOLLOW CORE
- HDW — HARDWARE
- HM — HOLLOW METAL
- HORIZ. — HORIZONTALLY
- HP — HIGH POINT
- HR. — HOUR
- HVAC — HEATING, VENTILATION, A/C
- HW — HOT WATER PIPING
- HWY — HIGHWAY

I
- ID — INTERIOR DESIGN
- INCL. — INCLUDED
- INT. — INTERIOR

J
- JAN. — JANITOR
- JT. — JOINT

K
- KIT. — KITCHEN

L
- LAM. — LAMINATE/ION
- LAV. — LAVATORY
- LBL. — LABEL
- LH — LEFT HAND
- LP — LOW POINT
- LTD. — LIMITED
- LTWT — LIGHTWEIGHT
- LVR. — LOUVER

M
- MAINT. — MAINTENANCE
- MAS. — MASONRY
- MATL. — MATERIAL
- MAX. — MAXIMUM
- MED. — MEDIUM
- MECH. — MECHANICAL
- MFR. — MANUFACTURER
- MH. — MANHOLE
- MID. — MIDDLE
- MIN. — MINIMUM
- MISC. — MISCELLANEOUS
- MO — MASONRY OPENING
- MTD — MOUNTED, MOUNTING
- MTL. — METAL

N
- NA — NOT APPLICABLE
- NIC — NOT IN CONTRACT
- NO. — NUMBER
- NTS — NOT TO SCALE

O
- OC — ON CENTER
- OFF. — OFFICE
- OPEN. — OPENNING
- OPT. — OPTIONAL

P
- PAR. — PARALLEL
- PER. — PERIMETER
- PH. — PHASE
- PLBG. — PLUMBING
- PNL. — PANEL
- PROJ. — PROJECT
- PROP. — PROPERTY
- PTD. — PAINTED
- PTE — EPOXY PAINT
- PVC — POLYVINYLCHLORIDE
- PWD. — PLYWOOD

Q
- QTY. — QUANTITY
- QT — QUARRY TILE

R
- R. — RADIUS
- RD — ROOF DRAIN
- REC. — RECESSED
- RECT. — RECTANGULAR
- RD. — ROAD
- REINF. — REINFORCE
- REV. — REVISION
- RFG. — ROOFING
- RH — RIGHT HAND
- RI. — RISER
- RM. — ROOM
- RO — ROUGH OPENING
- ROW — RIGHT OF WAY
- RV — ROOF VENT

S
- SAN. — SANITARY
- SC — SOLID CORE
- SCLG — SUSPENDED CEILING
- SCHED. — SCHEDULE
- SCP — SMOOTH CEMENT PLASTER
- SCWD — SOLID CORE WOOD
- SD — SMOKE DETECTOR
- SL — SEA LEVEL
- SF — SQUARE FOOT
- SGL. — SINGLE
- SHT. — SHEET
- SIM. — SIMILAR
- SQ. FT. — SQUARE FOOT
- SQ. IN. — SQUARE INCH
- SQ. YD. — SQUARE YARD
- SP — STAND PIPE
- SPECS. — SPECIFICATIONS
- SS — STORM SEWER
- S/S — STAINLESS STEEL
- ST. — STREET
- STR. — STAIR
- STO. — STORAGE
- STD. — STANDARD
- STL. — STEEL
- STRUC. — STRUCTURAL
- SUSP. — SUSPENDED
- SW. — SWITCH
- SWR. — SEWER

T
- T/ — TOP OF
- TD — TRENCH DRAIN
- TEL. — TELEPHONE
- TEMP. — TEMPORARY
- TERM. — TERMINAL
- THK — THICK/–NESS
- THRU. — THROUGH
- TR. — TREAD
- TS — TUBE STEEL
- TV. — TELEVISION
- TYP. — TYPICAL

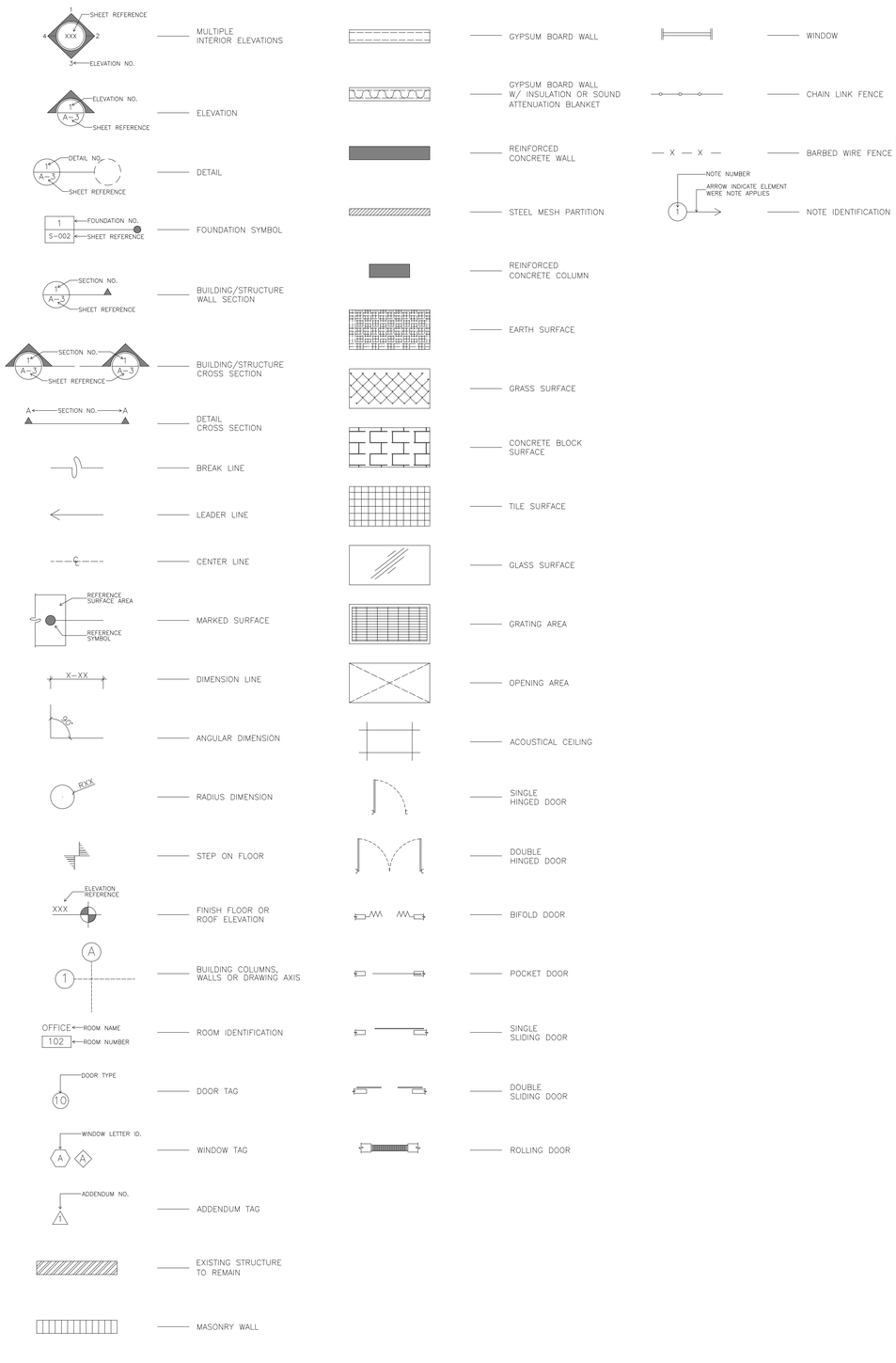
U
- UNO — UNLESS NOTED OTHERWISE
- UR. — URINAL
- UTIL. — UTILITY

V
- VAN. — VANITY
- VAR. — VARIES
- VCT — VINYL CONPOSITION TILE
- VERT. — VERTICAL/–LY
- VEST — VESTIBULE
- VIF — VERIFY IN FIELD
- VOL. — VOLUME
- VS — VENT STACK
- VWC — VINYL WALL COVERING

W
- W/ — WITH
- W/O — WITHOUT
- W/W — WALL TO WALL
- WC — WATER CLOSET
- WD. — WOOD
- WH — WATER HEATER
- WT. — WEIGHT
- WWF — WELDED WIRE FABRIC

Y
- YD — YARD DRAIN

GENERAL SYMBOLS LEGEND:



PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

ARCHITECTURAL NOTES AND SYMBOLS

DRAWING No.

A1.0

P R O P O S E D I M P R O V E M E N T S M A S T E R P L A N



1 PROPOSED IMPROVEMENTS MASTER PLAN
SCALE: 1:1000

PROPOSED IMPROVEMENT LIST:

- REHABILITATION OF SIDEWALKS AND CURBS FROM PR-101 KM. 18.6 TO KM 19.7 AND MUNICIPAL AREAS.FOR LOCATION DETAILS SEE SHEETS A2.1, A2.2, A2.3, A2.4 & A2.5.
- REPLACEMENT, REHABILITATION AND/OR INSTALLATION OF NEW LIGHTING FIXTURES AND LED POLES. FOR LOCATION DETAILS SEE SHEET E-1.0
- REHABILITATION OF THE MAIN PUBLIC PLAZA OF THE POBLADO (PLAZA MARGARITA PABON) AND INCLUDE SOME AREAS OF TYPICAL CABO ROJO MOSAICS AND/OR MURALS WITHIN THIS AREA OF THE STAMPING IN THE STREETS AND THAT IT BE BE OF A HIGH QUALITY MATERIAL OR COBBLESTONE.FOR LOCATION DETAILS SEE SHEET A4.1, A5.1, A6.1, A7.0, A8.1, A8.2
- CONSTRUCTION OF A BENCH AREA AND IN THE CENTER OF THE AREA, A TRAY WITH THE NAME OF MARGARITA PABON AND A BRIEF HISTORY AND NEW BOLLARDS.FOR LOCATION DETAILS SEE SHEET A8.1, A8.2
- INSTALLATION OF CABO ROJO EMBLEMATIC SIGN IN MARGARITA PABON PLAZA.FOR LOCATION DETAILS SEE SHEET A-4.1
- RESTORATION AND BEAUTIFICATION OF ORNAMENTAL AND GREENERY SPACES.FOR LOCATION DETAILS SEE SHEET LA-1.0
- ELIMINATION OF ARCHITECTURAL BARRIERS (TOWN SQUARE AND SIDEWALKS).FOR LOCATION DETAILS SEE SHEET D-1.0
- REPAVING OF HERMOGENES POU AND GIL BOUYET STREETS AND BOTH ENTRANCE STREETS TO THE POBLADO (LUIS MUÑOZ RIVERA AND JOSE DE DIEGO ST.) FOR MORE DETAILS SEE SHEET PA-1.0
- CONSTRUCTION OF EMBLEMATIC ENTRANCE SYMBOLS THROUGH JOSE DE DIEGO AND LUIS MUÑOZ RIVERA ST.FOR LOCATION DETAILS SEE SHEET A3.1, A3.2

IMPORTANT NOTE:
FOR DETAILS OF LOCATION SEE THE CORRESPONDING SHEETS FOR EACH ITEM AS INDICATED.

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO, PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

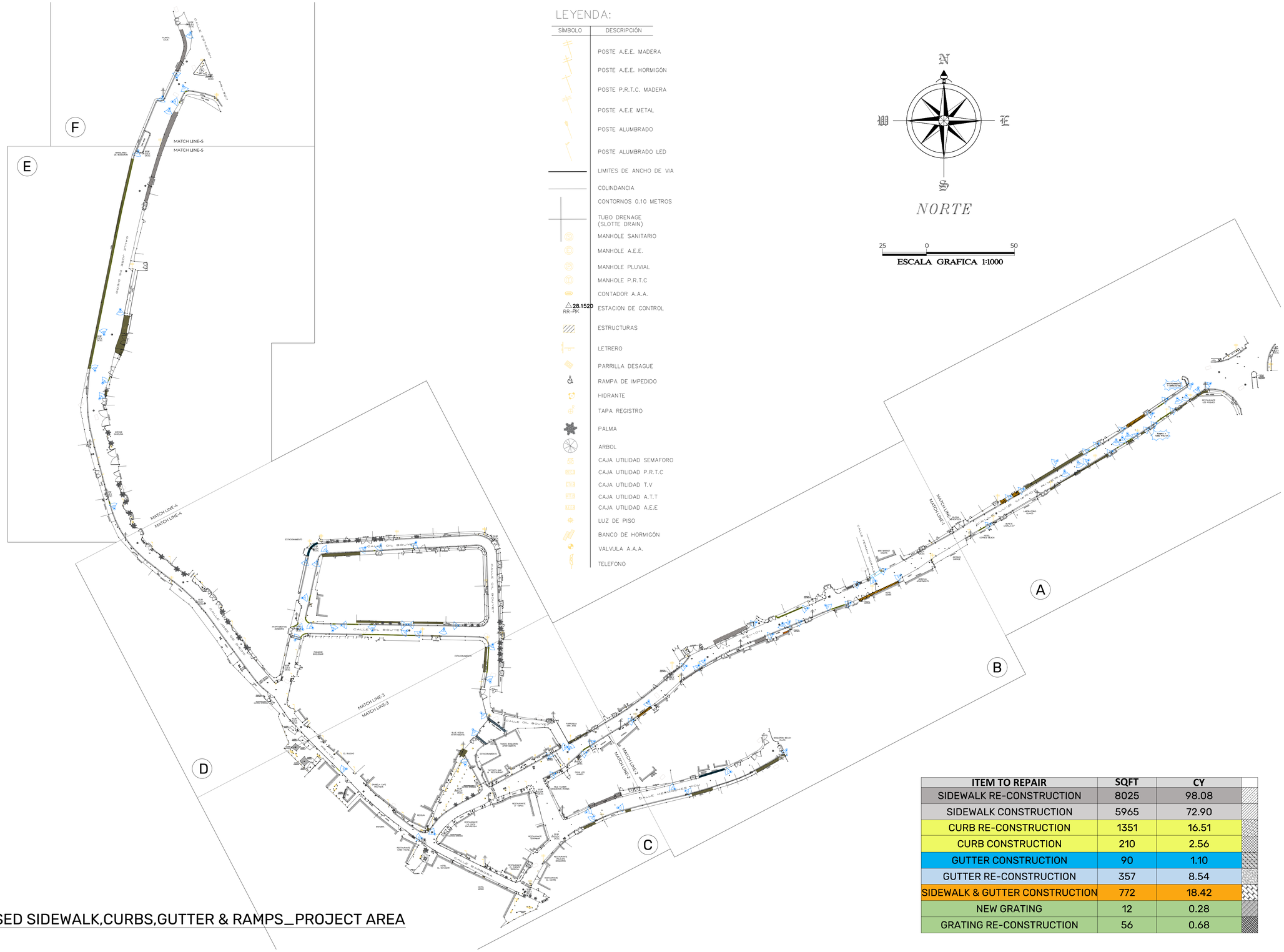
TITLE

PROPOSED IMPROVEMENTS MASTER PLAN

DRAWING No.

A1.1

P R O P O S E D S I D E W A L K S C U R B S & G U T T E R



LEYENDA:

SÍMBOLO	DESCRIPCIÓN
	POSTE A.E.E. MADERA
	POSTE A.E.E. HORMIGÓN
	POSTE P.R.T.C. MADERA
	POSTE A.E.E METAL
	POSTE ALUMBRADO
	POSTE ALUMBRADO LED
	LIMITES DE ANCHO DE VIA
	COLINDANCIA
	CONTORNOS 0.10 METROS
	TUBO DRENAGE (SLOTTE DRAIN)
S	MANHOLE SANITARIO
E	MANHOLE A.E.E.
P	MANHOLE PLUVIAL
T	MANHOLE P.R.T.C
	CONTADOR A.A.A.
28.152D RR-PK	ESTACION DE CONTROL
	ESTRUCTURAS
	LETRERO
	PARRILLA DESAGUE
	RAMPA DE IMPEDIDO
	HIDRANTE
	TAPA REGISTRO
	PALMA
	ARBOL
	CAJA UTILIDAD SEMAFORO
	CAJA UTILIDAD P.R.T.C
	CAJA UTILIDAD T.V
	CAJA UTILIDAD A.T.T
	CAJA UTILIDAD A.E.E
	LUZ DE PISO
	BANCO DE HORMIGÓN
	VALVULA A.A.A.
	TELEFONO

N

W E

S

NORTE

25 0 50

ESCALA GRAFICA 1:1000

ITEM TO REPAIR	SQFT	CY
SIDEWALK RE-CONSTRUCTION	8025	98.08
SIDEWALK CONSTRUCTION	5965	72.90
CURB RE-CONSTRUCTION	1351	16.51
CURB CONSTRUCTION	210	2.56
GUTTER CONSTRUCTION	90	1.10
GUTTER RE-CONSTRUCTION	357	8.54
SIDEWALK & GUTTER CONSTRUCTION	772	18.42
NEW GRATING	12	0.28
GRATING RE-CONSTRUCTION	56	0.68

PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_PROJECT AREA

SCALE: 1:1000

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

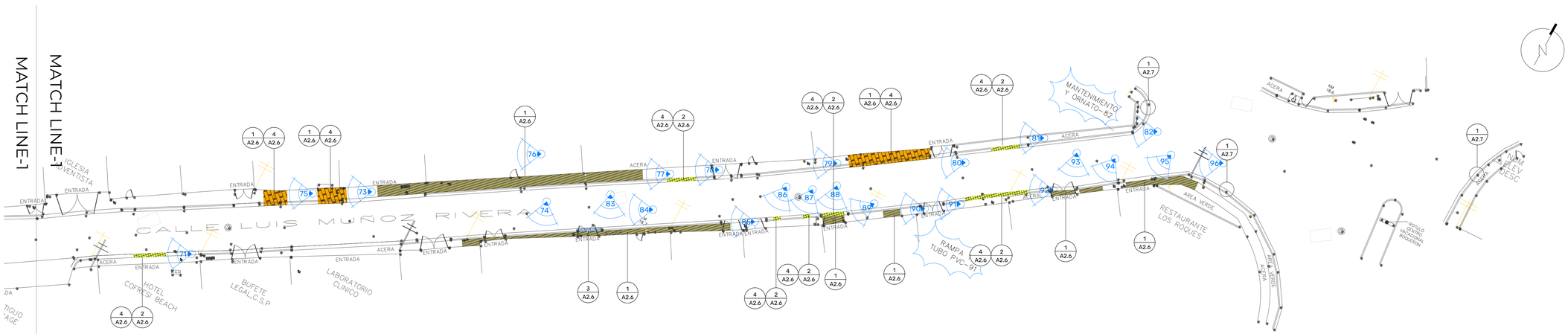
TITLE

PROPOSED SIDEWALKS CURBS & GUTTER

DRAWING No.

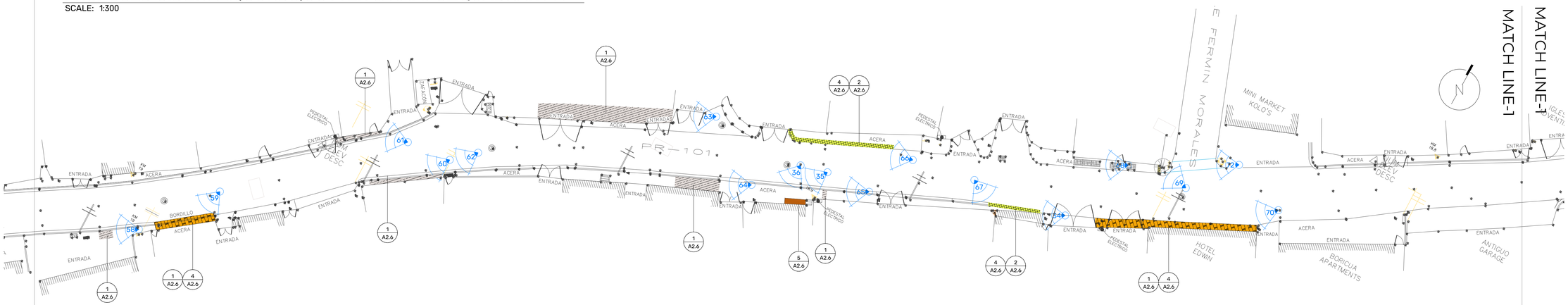
A2.1

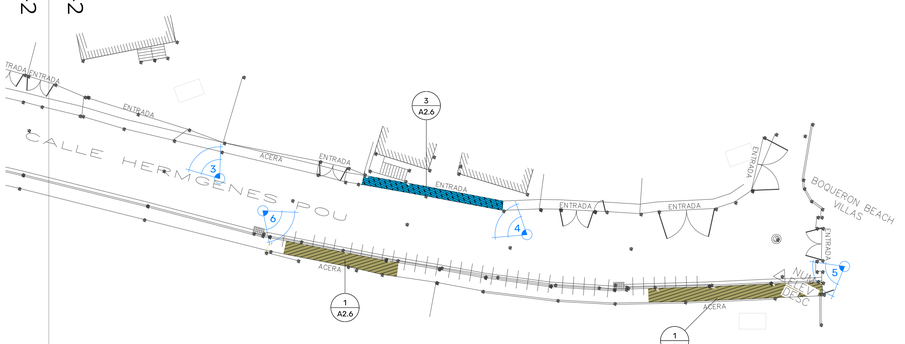
P R O P O S E D S I D E W A L K S C U R B S & G U T T E R



PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT A

SCALE: 1:300





PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT B

SCALE: 1:300

- REPAIR EXISTING CURB USING DETAIL 2 Y 4 ON SHEET A2.6.
- REPAIR EXISTING CURB AND SIDEWALK USING DETAIL 1 Y 4 ON SHEET A2.6.
- REPAIR EXISTING SIDEWALK USING DETAIL 1 ON SHEET A2.6.
- REPAIR EXISTING GUTTER USING DETAIL 3 ON SHEET A2.6.
- REMOVE AND REPLACE EXISTING FLOOR AREA CONDITIONS INCLUDING DEBRIS TO INSTALL NEW SIDEWALK USING DETAIL 1 ON SHEET A2.6.
- *REMOVE OBSTRUCTIONS, TREES, SHRUBS, AND OTHER VEGETATION USING DETAILS SPECIFIED ON SHEET A2.6.*

QUADRANT A

IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
71	CURB CONSTRUCTION	34	5	170	2.97	
73	SIDEWALK & GUTTER CONSTRUCTION	13	5	65	0.79	
74	PROPERTY ENTRANCE	0	0	0	0	
75	SIDEWALK & GUTTER CONSTRUCTION	11	5	55	0.67	
76	SIDEWALK RE-CONSTRUCTION	87	5	435	5.31	
77	SIDEWALK RE-CONSTRUCTION	108	5	540	6.60	
78	SIDEWALK RE-CONSTRUCTION	108	5	540	6.60	
79	SIDEWALK RE-CONSTRUCTION	40	5	200	2.44	
80	SIDEWALK & GUTTER CONSTRUCTION	40	5	200	2.44	
81	CURB RE-CONSTRUCTION	13	1	13	0.15	
82	MAINTANCE	0	0	0	0	
83	SITE RELEVANCE	0	0	0	0	
84	GUTTER RE-CONSTRUCTION	16	2	32	0.39	
85	SIDEWALK RE-CONSTRUCTION	126	5	630	7.70	
86	SIDEWALK & GUTTER CONSTRUCTION	2	3	6	0.07	
87	SIDEWALK & GUTTER CONSTRUCTION	2	3	6	0.07	
88	CURB RE-CONSTRUCTION	7	1	7	0	
89	SIDEWALK RE-CONSTRUCTION	11	4	44	0.53	
90	SIDEWALK RE-CONSTRUCTION	8	1	8	0.9	
91	REPLACE PVC TUBE	13	1	13	0.15	
92	CURB RE-CONSTRUCTION	30	1	30	0.36	
93	SIDEWALK RE-CONSTRUCTION	11	4	44	0.53	
94	SIDEWALK RE-CONSTRUCTION	12	3	36	0.44	
95	SIDEWALK RE-CONSTRUCTION	21	5	105	1.28	
96	SIDEWALK RE-CONSTRUCTION	14	6	84	1.02	

QUADRANT B

IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
3	SIDEWALK CONSTRUCTION	35	5	175	2.11	
4	SIDEWALK RE-CONSTRUCTION	40	2	80	0.97	
5	SIDEWALK RE-CONSTRUCTION	40	5	300	3.66	
6	SIDEWALK RE-CONSTRUCTION	40	5	200	2.44	
34	CURB RE-CONSTRUCTION	25	2	50	0.61	
35	SIDEWALK CONSTRUCTION	2	6	12	0.14	
36	GRADING REMOVAL	0	0	0	0	
58	SIDEWALK CONSTRUCTION	7	4	28	0.34	
59	SIDEWALK & GUTTER CONSTRUCTION	30	4	120	1.46	
60	SIDEWALK CONSTRUCTION	38	3	114	1.39	
61	SIDEWALK CONSTRUCTION	28	4	112	1.36	
62	STEP TO BE REMOVED	5	1	5	0.11	
63	SIDEWALK CONSTRUCTION	55	5	275	3.36	
64	SIDEWALK CONSTRUCTION	22	6	132	1.61	
65	SIDEWALK CONSTRUCTION	12	4	48	0.58	
66	CURB RE-CONSTRUCTION	52	2	104	1.27	
67	NEW GRATING	4	3	12	0.14	
68	GRATING RE-CONSTRUCTION	14	4	56	0.68	
69	SIDEWALK RE-CONSTRUCTION	4	1	4	0.04	
70	SIDEWALK & GUTTER CONSTRUCTION	80	4	320	3.91	
72	SIDEWALK CONSTRUCTION	22	2	44	0.53	

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE
William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED SIDEWALKS CURBS & GUTTER

DRAWING No.
A2.2

P R O P O S E D S I D E W A L K S C U R B S & G U T T E R



- REPAIR EXISTING CURB USING DETAIL 2 Y 4 ON SHEET A2.6.
- REPAIR EXISTING GUTTER USING DETAIL 3 ON SHEET A2.6.
- REPAIR EXISTING SIDEWALK USING DETAIL 1 ON SHEET A2.6.
- REMOVE AND REPLACE EXISTING FLOOR AREA CONDITIONS INCLUDING DEBRIS TO INSTALL NEW SIDEWALK USING DETAIL 1 ON SHEET A2.6.

QUADRANT C						
IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
2	SIDEWALK CONSTRUCTION	62	5	310	3.78	
7	SIDEWALK RE-CONSTRUCTION	10	5	50	0.61	
8	SIDEWALK RE-CONSTRUCTION	25	5	125	1.52	
28	CURB RE-CONSTRUCTION	30	3	90	1.10	
29	SIDEWALK RE-CONSTRUCTION	47	6	282	3.44	
30	SIDEWALK RE-CONSTRUCTION	11	10	110	1.34	
31	GUTTER RE-CONSTRUCTION	25	4	100	1.22	
32	GUTTER RE-CONSTRUCTION	45	5	225	2.75	
33	SIDEWALK RE-CONSTRUCTION	40	3	120	1.46	
37	CURB RE-CONSTRUCTION	7	1	7	0.08	
51	BOARD FLOOR	6	6	36	0.44	
52	SIDEWALK CONSTRUCTION	15	3	45	0.55	
53	SIDEWALK CONSTRUCTION	10	2	20	0.24	
54	SIDEWALK CONSTRUCTION	10	4	40	0.48	
55	SIDEWALK CONSTRUCTION	6	4	24	0.29	
56	SIDEWALK CONSTRUCTION	15	6	90	1.10	
57	CURB CONSTRUCTION	20	2	40	0.48	

PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT C

SCALE: 1:300

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED SIDEWALKS CURBS & GUTTER

DRAWING No.

A2.3

P R O P O S E D S I D E W A L K S C U R B S & G U T T E R



- REPAIR EXISTING CURB USING DETAIL 2 Y 4 ON SHEET A2.6.
- REPAIR EXISTING SIDEWALK USING DETAIL 1 ON SHEET A2.6.
- REPAIR EXISTING GUTTER USING DETAIL 3 ON SHEET A2.6.

QUADRANT D						
IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
9	CURB RE-CONSTRUCTION	33	1	33	0.37	
10	SIDEWALK RE-CONSTRUCTION	13	3	39	0.93	
11	SIDEWALK RE-CONSTRUCTION	57	3	171	4.09	
12	SIDEWALK RE-CONSTRUCTION	57	3	171	4.09	
13	SIDEWALK CONSTRUCTION	82	3	246	5	
14	CURB RE-CONSTRUCTION	14	2	28	0.34	
15	CURB RE-CONSTRUCTION	75	2	150	1.83	
16	CURB RE-CONSTRUCTION	5	2	10	0.12	
17	CURB RE-CONSTRUCTION	20	2	40	0.48	
18	CURB RE-CONSTRUCTION	5	2	10	0.12	
19	CURB RE-CONSTRUCTION	16	2	32	0.39	
20	CURB RE-CONSTRUCTION	30	2	60	0.73	
21	SIDEWALK CONSTRUCTION	70	4	280	3.42	
22	CURB RE-CONSTRUCTION	9	2	18	0.22	
23	SIDEWALK CONSTRUCTION	67	6	402	4.91	
24	GUTTER CONSTRUCTION	50	3	150	1.83	
25	SIDEWALK RE-CONSTRUCTION	71	7	497	6.07	
26	CURB RE-CONSTRUCTION	2	1	2	0.02	
27	CURB RE-CONSTRUCTION	2	1	2	0.02	
29	SIDEWALK RE-CONSTRUCTION	47	6	282	0.03	

PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT D

SCALE: 1:300

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO, PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

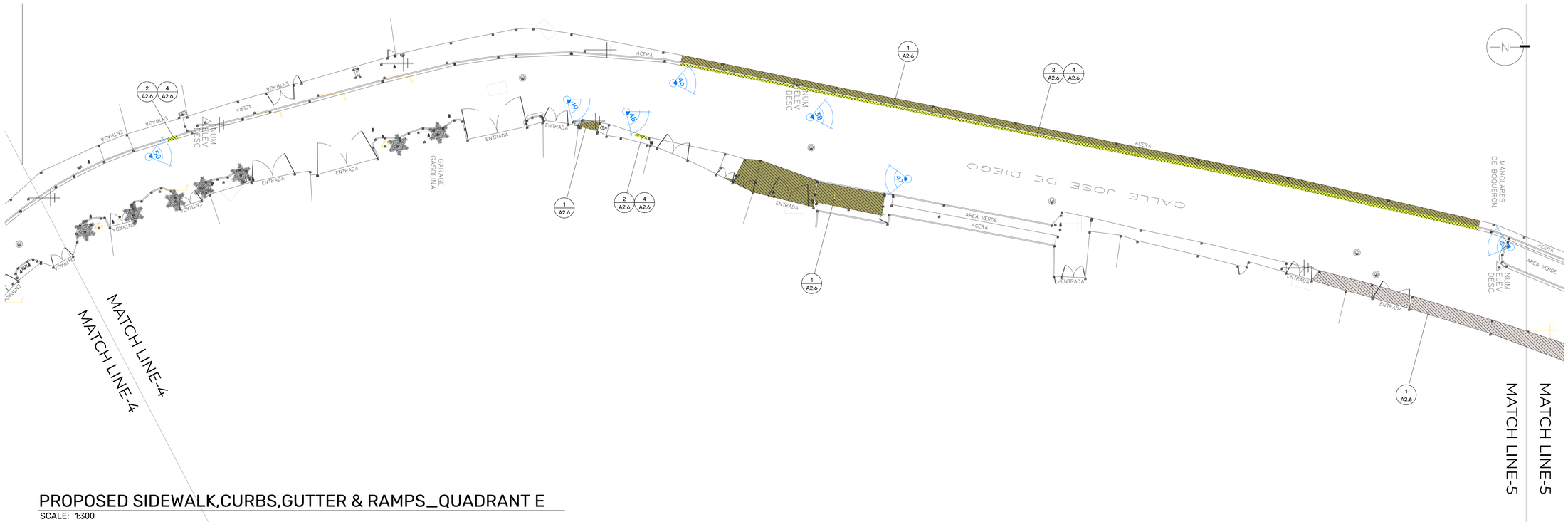
PROPOSED SIDEWALKS CURBS & GUTTER

DRAWING No.

A2.4

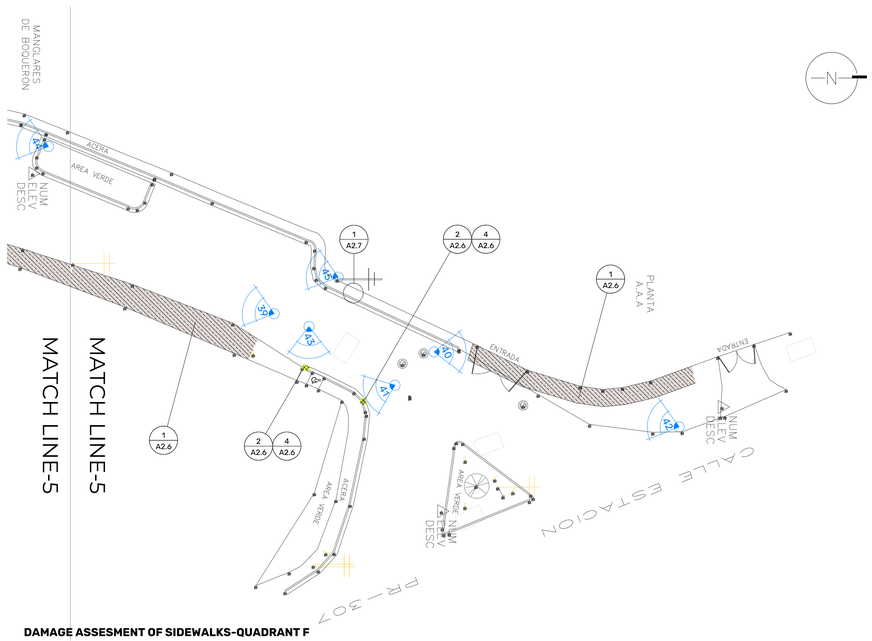
PAGE: 18 / 67

P R O P O S E D S I D E W A L K S C U R B S & G U T T E R



PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT E

SCALE: 1:300



DAMAGE ASSESMENT OF SIDEWALKS-QUADRANT F
SCALE 1:300

PROPOSED SIDEWALK,CURBS,GUTTER & RAMPS_QUADRANT F

SCALE: 1:300

- REPAIR EXISTING CURB USING DETAIL 2 Y 4 ON SHEET A2.6.
- REPAIR EXISTING SIDEWALK USING DETAIL 1 ON SHEET A2.6.
- REMOVE AND REPLACE EXISTING FLOOR AREA CONDITIONS INCLUDING DEBRIS TO INSTALL NEW SIDEWALK USING DETAIL 1 ON SHEET A2.6.

QUADRANT E						
IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
38	CURB RE-CONSTRUCTION	308	2	616	7.52	
44	SIDEWALK RE-CONSTRUCTION	80	3	240	2.95	
46	SIDEWALK RE-CONSTRUCTION	320	3	960	11.73	
47	SIDEWALK RE-CONSTRUCTION	82	6	492	6.01	
48	CURB RE-CONSTRUCTION	21	2	42	0.51	
49	SIDEWALK RE-CONSTRUCTION	8	5	40	0.48	
50	CURB RE-CONSTRUCTION	5	1	5	0.06	
QUADRANT F						
IMAGE	ITEM TO REPAIR	LENGTH	WIDTH	SQFT	CY	
39	SIDEWALK CONSTRUCTION	310	5	1550	18.94	
40	SIDEWALK CONSTRUCTION	310	5	1550	18.94	
41	CURB RE-CONSTRUCTION	2	1	2	0.02	
42	SIDEWALK CONSTRUCTION	80	6	480	5.84	
43	CURB RE-CONSTRUCTION	2	1	2	0.02	
44	SIDEWALK RE-CONSTRUCTION	80	3	240	2.93	
45	SIDEWALK RE-CONSTRUCTION	320	3	960	11.73	

PROJECT ADDRESS
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REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

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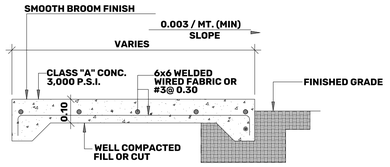
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED SIDEWALKS CURBS & GUTTER

DRAWING No.

A2.5



NOTE:
JOINTS AS SHOWN
EXPANSION JOINTS @ 9.14 MT. ON CENTER AND AT THE EDGE OF FENCES OR ANY OTHER STRUCTURE, STEPS AND AT INTERSECTIONS

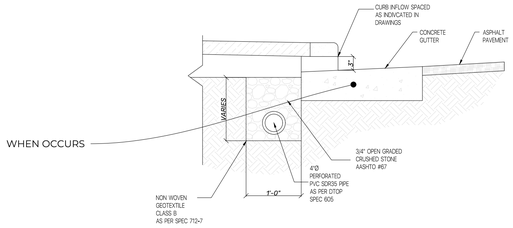
SIDEWALK PAVEMENT NOTES

1. CONCRETE FOR SIDEWALK SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM W/C RATIO OF 0.72.
2. PROVIDE TOOLED CONTROL JOINTS @5'-0" ON CENTER. A MINIMUM DEPTH OF 1" AND ¼" WIDTH.
3. PROVIDE ½" EXPANSION JOINTS @ 30'-0" ON CENTER WITH A PRE MOLDED JOINT FILLER AND JOINT WITH PRE MOLDED JOINT FILLER AND SEALANT.
4. WHERE SIDEWALK ABUTS PROPOSED OR EXISTING FIXED OBJECT PROVIDE A ½" EXPANSION JOINT WITH PRE MOLDED JOINT FILLER AND SEALANT.

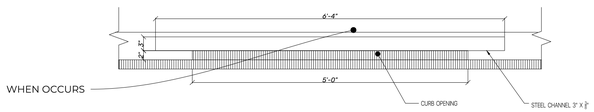
1 *SIDEWALK DETAILS*
SCALE: NOT TO SCALE

CONCRETE CURB TYP. NOTES

1. CONCRETE CURB SECTION SHALL BE OF UNIFORM LENGTHS OF 20 FEET OR LESS BUT NO SECTION TO LESS THAN SIX FEET.
2. PLACE 1/2" THICK PREFORMED EXPANSION JOINT FILLER TO FULL DEPTH, FLUSH WITH TOP AND FACE OF CURB, BETWEEN CURB SECTION.
3. PLACE PRIME COAT ON CURB SURFACES THAT ABUTTS BITUMINOUS PAVEMENT.
4. BETWEEN CONCRETE CURB AND CONCRETE PAVEMENT OR OTHER ABUTTING STRUCTURES, PLACE 1/2" PREFORMED EXPANSION JOINT FILLER AND SEALER.
5. CURB & GUTTER SURFACE SHALL HAVE A SMOOTH AND EVEN FINISH.
6. PORTLAND CEMENT CONCRETE SHALL BE CLASS "A".
7. CURBING SHALL BE CONSTRUCTED IN SECTIONS HAVING A UNIFORM LENGHT OF 3 METERS WITHOUT NEED OF ANY JOINT FILLER. SECTIONS SHALL BE SEPARATED BY OPEN JOINTS 0.003 WIDE. WHERE THE CURBING IS CONSTRUCTED ADJACENT TO CONCRETE PAVEMENT, THE OPEN JOINTS IN THE CURBING SHALL MATCH THE CONTRACTION JOINTS IN THE PAVEMENT.
8. FORMS SHALL BE OF METAL AND SHALL EXTEND FOR THE FULL DEPTH OF THE CONCRETE. WOODEN FORMS MAY BE USED WHEN AUTHORIZED BY THE ENGINEER, ON SHORT RADIUS CURVES SUCH AS AT STREET INTERSECTIONS AND AT SUCH OTHER LOCATIONS FOR WHICH CURVED METAL FORMS MAY NOT BE AVAILABLE. ALL FORMS SHALL BE FREE FORM WARP AND OF SURFICIENT STRENGTH TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DISPLACEMENT. BRACING AND STACKING OF FORMS SHALL BE SUCH THAT THE FORMS REMAIN IN BOTH HORIZONTAL AND VERTICAL AND COATED WITH AN APPROVED FORM RELEASE AGENT OR FORM OIL BEFORE CONCRETE.



CURB INFLOW
SCALE: NOT TO SCALE



TYPICAL CURB INFLOW
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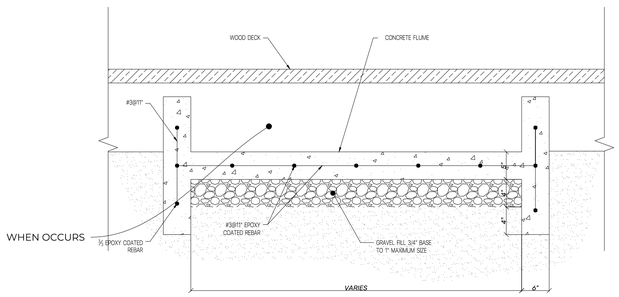
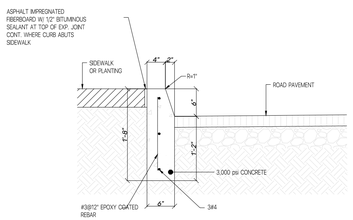
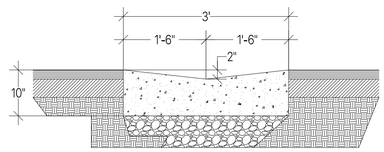


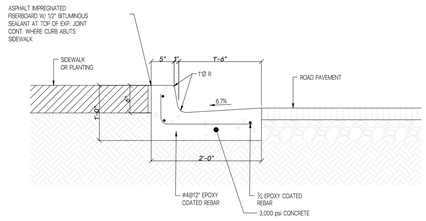
CURB INFLOW
SCALE: NOT TO SCALE



2 *VERTICAL CURB TYPE - D*
SCALE: NOT TO SCALE



3 *STANDARD GUTTER*
SCALE: NOT TO SCALE



4 *STANDARD CURB & GUTTER TYPE-F*
SCALE: NOT TO SCALE

DEBRIS REMOVAL NOTES:

CLEARING AND GRUBBING

A. REMOVE OBSTRUCTIONS, TREES, SHRUBS, AND OTHER VEGETATION TO PERMIT INSTALLATION OF NEW CONSTRUCTION.

1. A PRECONSTRUCTION MEETING IS REQUIRED PRIOR TO LAND DISTURBANCE ACTIVITIES. THIS MEETING SHALL INCLUDE AT LEAST NORTHWESTERN UNIVERSITY'S GROUNDS MANAGER AND/OR LANDSCAPE ARCHITECT. EXISTING CONDITIONS OF VEGETATION TO REMAIN WILL BE DOCUMENTED AND KEPT IN THE CONSTRUCTION TRAILER.

2. SEE SECTION 329300 – PLANTS FOR MAINTENANCE AND PROTECTION REQUIREMENTS.

3. DO NOT REMOVE TREES, SHRUBS, AND OTHER VEGETATION INDICATED TO REMAIN OR TO BE RELOCATED.

4. CONTRACTOR SHALL REPAIR OR REPLACE TREES AND VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS, IN A MANNER APPROVED BY NORTHWESTERN UNIVERSITY'S GROUNDS MANAGER OR LANDSCAPE ARCHITECT.

5. GRIND DOWN STUMPS AND REMOVE ROOTS, OBSTRUCTIONS, AND DEBRIS TO A DEPTH OF 18 INCHES BELOW EXPOSED SUBGRADE.

6. USE ONLY HAND METHODS FOR GRUBBING WITHIN PROTECTION ZONES.

7. CHIP REMOVED TREE BRANCHES AND DISPOSE OF OFF-SITE.

B. FILL DEPRESSIONS CAUSED BY CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.

DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

5 *DEBRIS REMOVAL PROCEDURE*
SCALE: NOT TO SCALE

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, CIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

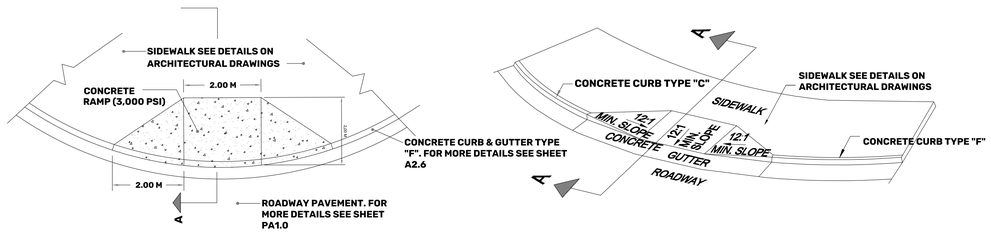
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED SIDEWALKS_DETAILS

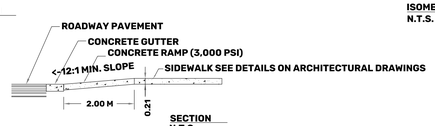
DRAWING No.

A2.6



PLAN
N.T.S.

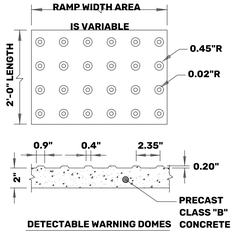
ISOMETRICAL VIEW
N.T.S.



SECTION
N.T.S.

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0"*
6'	0.0'	6.8'	6.8'	6.0"**
7'	0.0'	7.8'	7.3'	6.5"**
8'	0.0'	8.8'	7.3'	6.5"**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B = X-(A+9")
B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



ALTERNATE MATERIAL MAY BE SUBSTITUTED, PROVIDED THE PRODUCT IS ON THE TOWN'S APPROVED MANUFACTURER LIST AND THE MANUFACTURER'S PRODUCT AND INSTALLATION SPECIFICATIONS ARE FOLLOWED.

1 TYPICAL HANDICAPPED CONCRETE RAMP

SCALE: N.T.S

GENERAL NOTES:

1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" IN LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON DETAIL. THE RAMP MAY BE BLUE IN COLOR OR ANY COLOR WITH A 70% CONTRAST RATIO.
2. CROSSWALK WIDTHS AND CONFIGURATION VARY BUT MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
3. STANDARD SPECS SPECIFIES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS, REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEELCHAIR RAMPS FOR THE PHYSICALLY DISABLED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW. IN ADDITION, SECTION 228 OF THE 1973 FEDERAL AID HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR A FUTURE DATE. THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES. COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH THE CURRENT ADA STANDARDS.
4. PROVIDE WHEELCHAIR RAMPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. LOCATE WHEELCHAIR RAMPS AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. WHERE TWO RAMPS ARE INSTALLED PLACE NOT LESS THAN 2 FEET OF FULL HEIGHT CURB BETWEEN THE RAMPS. PLACE DUAL RAMPS AS NEAR PERPENDICULAR TO THE TRAVEL LANE BEING CROSSED AS POSSIBLE.
5. PAY FOR ALL VARIABLE DEPTH CONCRETE USED FOR CONSTRUCTION OF WHEELCHAIR RAMPS AS CONCRETE WHEELCHAIR RAMPS. (SQ. YDS.)
6. PAY FOR ALL DEPRESSED CURBS AT WHEELCHAIR RAMPS AS THE TYPE CURB AND GUTTER USED ADJACENT TO DEPRESSED CURB. (LN. FT.)
7. SUCH PRICES AND PAYMENTS IS CONSIDERED FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
8. DO NOT EXCEED 0.08 (12:1) SLOPE ON THE WHEELCHAIR RAMP IN RELATION TO THE GRADE OF THE STREET.
9. CONSTRUCT WHEELCHAIR RAMPS 40" (3'-4") OR GREATER FOR DUAL RAMPS AND 60" (5'-0") OR GREATER FOR DIAGONAL RAMPS.
10. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
11. PLACE A 1 2" EXPANSION JOINT WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB AND AS SHOWN ON STANDARD DETAIL 03000.07.
12. PLACE THE INSIDE PEDESTRIAN CROSSWALK LINES NO CLOSER IN THE INTERSECTION BY BISECTING THE INTERSECTION RADII, WITH ALLOWANCE OF A 4' CLEAR ZONE IN THE VEHICULAR TRAVELWAY WHEN ONE RAMP
13. COORDINATE THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SO THE FLOOR OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES. PLACE DIAGONAL RAMPS WITH FLARED SIDE SO 24" OF FULL HEIGHT CURB FALLS WITHIN THE CROSSWALK MARKINGS ON EACH SIDE OF THE FLARES.
14. PLACE ALL PAVEMENT MARKINGS IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION SUPPLEMENT TO THE MUTCD.
15. WHEELCHAIR RAMPS SHOULD BE CONSTRUCTED ACCORDING TO TOC & NCDOT STANDARDS AFTER THE LOCATIONS OF THE PROPOSED STOP BAR AND/OR PEDESTRIAN CROSSWALKS HAVE BEEN STAKED OUT.
16. LADDER-STYLE & DIAGONAL CROSSWALK STRIPING ARE NOT PERMISSIBLE.
17. PROJECT OWNER SHOULD REQUEST PERMISSION FROM ADJACENT OWNERS FOR ANY WORK TO BE DONE OUTSIDE PROJECT LIMITS, SUCH AS STORM SEWER INSTALLATION, EARTH MOVEMENT, ET.
18. IT'S THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE ANY LINE OR SERVICE THAT COULD BE BROKEN OR DAMAGED DURING THE CONSTRUCTION OF THE PROJECT, SUCH AS WATER MAINS, SANITARY SEWER LINES AND CONNECTIONS, ELECTRICAL, TELEPHONE, AND CABLE T. V. LINES AND POLES, ETC.
19. THE CONTRACTOR SHALL COORDINATE WITH P.R.A.S.A. FOR THE TEMPORARY INTERRUPTION OF THE WATER AND SANITARY SEWER SERVICES WHENEVER THE CONSTRUCTION PROCESS AFFECTS EXISTING LINES.
20. THE CONTRACTOR SHALL PROVIDE ALL THE SAFETY MEASUREMENTS TO AVOID HAZARDOUS CONDITIONS DURING THE CONSTRUCTION PERIOD. SAFETY TRAFFIC AND CONSTRUCTION PLAN SHOULD BE SUBMITTED TO THE PROJECT MANAGER APPROVAL BEFORE ANY HAZARDOUS OR RISKY WORK IS STARTED.
21. THE CONTRACTOR WILL ASSUME ALL RESPONSIBILITY FOR ANY PROPERTY OR PERSONAL DAMAGE OR LOSS THAT MAY OCCUR, PRIVATE OR PUBLIC RELATED TO THE CONSTRUCTION OF THE PROJECT OR DURING THE CONSTRUCTION PROCESS. THE OWNER WILL BE RELIEVED BY THE CONTRACTOR FORM ANY LOSS OR DAMAGE CAUSED.
22. TEMPORARY GUARD RAILS AND PROTECTION DEVICES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR WHENEVER ANY EXCAVATION IS PERFORMED.
23. EXCAVATIONS AND STREET REPAIRS SHALL BE PERFORMED FOLLOWING THE BEST CONSTRUCTION PRACTICES WITHIN THE MINIMUM REQUIRED TIME.
24. CONTRACTOR SHALL BE CAREFUL DURING THE CONSTRUCTION OPERATION AS THE PRESERVE ALL EXISTING TREES, PLANTS, BUSHES OR CROPS WITHIN THE PROJECT SITE HAVING NO INTERFERENCE.
25. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM THE ENVIRONMENTAL QUALITY BOARD AND THE DEPARTMENT OF NATURAL RESOURCES, PRIOR TO COMMENCING ANY EARTH MOVEMENTS, OR EXCAVATIONS IN THE PROJECT.
26. THE CONTRACTOR SHALL FOLLOW AND OBSERVE THE ENVIRONMENTAL QUALITY BOARD "CEST" PLAN, AS TO AVOID EROSION; SEDIMENTATION AND CONTAMINATION OF NATURAL RESOURCES.
27. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS IN THE FIELD AND EXISTING GRADE ELEVATIONS, AND EXISTING INFRASTRUCTURE AT ALL POINTS OF CONNECTION PRIOR TO INITIATING MAJOR CONSTRUCTION WORKS AND IMMEDIATELY NOTIFY PROJECT MANAGER OR SUPERVISOR OF ANY DISCREPANCY WITH DRAWINGS.
28. THE CONTRACTOR SHALL PROTECT PROPERTY AND PERSONS FROM HOLES AND DEPRESSIONS THAT MAY OCCUR AS PART OF THE PROJECT, BY MEANS OF BARRICADES, WARNING LIGHTS, FENCES AND RAILINGS TO AVOID ACCIDENTS.
29. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL EXISTING PROPERTY, PAVED AREAS, TREES, GRASS AND VEGETATION FROM CONSTRUCTION PERSONNEL TRAFFIC AND SHOULD KEEP THESE AREAS FREE FROM TRASH OR WEEDS.
30. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED FROM THE TRAFFIC MAINTENANCE DURING THE CONSTRUCTION. MAINTENANCE OF TRAFFIC SHALL PERFORMED AS REQUIRED BY THE PRHTA AND THE MUNICIPALITY OF CABO ROJO.
31. AT ALL TIME, THE CONTRACTOR SHALL MAINTAIN ACCESS TO PUBLIC AND PRIVATE PROPERTIES.

EROSION CONTROL

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING SOIL EROSION AND SEDIMENT RUNOFF FROM THE CONSTRUCTION AREA. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AN ABIDE TO APPLICABLE STORM WATER RUNOFF AND / OR DISCHARGE REQUIREMENTS SET BY PUERTO RICO ENVIRONMENTAL QUALITY BOARD (EQB), UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) AND / OR ANY OTHER REGULATORY AGENCY.
B. THE CONTRACTOR SHALL NOT TAKE WATER FROM THE PRASA WATER SYSTEM FOR SPRINKLING OR CONTROLLING DUST DURING CONSTRUCTION. CONTRACTOR SHALL PAY FOR ALL THE WATER USED TO PERFORM ALL THE PIPE TEST.

PROJECT ADDRESS
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OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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SIGNATURE
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED RAMPS FOR THE DISABLED_DETAILS

DRAWING No.
A2.7

P H O T O D O C U M E N T A T I O N Q U A D R A N T A



91 | FOR MORE LOCATION DETAILS SEE A2.2



92 | FOR MORE LOCATION DETAILS SEE A2.2



93 | FOR MORE LOCATION DETAILS SEE A2.2



94 | FOR MORE LOCATION DETAILS SEE A2.2



95 | FOR MORE LOCATION DETAILS SEE A2.2



96 | FOR MORE LOCATION DETAILS SEE A2.2



97 | FOR MORE LOCATION DETAILS SEE A2.2

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Progress Print:

TITLE
PHOTO DOCUMENTATION QUADRANT A

DRAWING No.
A2.8

P H O T O D O C U M E N T A T I O N Q U A D R A N T B



(1) | FOR MORE LOCATION DETAILS SEE A2.2



(71) | FOR MORE LOCATION DETAILS SEE A2.2



(73) | FOR MORE LOCATION DETAILS SEE A2.2



(74) | FOR MORE LOCATION DETAILS SEE A2.2



(75) | FOR MORE LOCATION DETAILS SEE A2.2



(76) | FOR MORE LOCATION DETAILS SEE A2.2



(77) | FOR MORE LOCATION DETAILS SEE A2.2



(78) | FOR MORE LOCATION DETAILS SEE A2.2



(79) | FOR MORE LOCATION DETAILS SEE A2.2



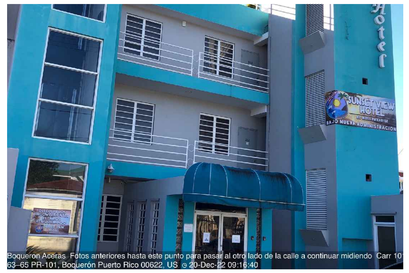
(80) | FOR MORE LOCATION DETAILS SEE A2.2



(81) | FOR MORE LOCATION DETAILS SEE A2.2



(82) | FOR MORE LOCATION DETAILS SEE A2.2



(83) | FOR MORE LOCATION DETAILS SEE A2.2



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(85) | FOR MORE LOCATION DETAILS SEE A2.2



(86) | FOR MORE LOCATION DETAILS SEE A2.2



(87) | FOR MORE LOCATION DETAILS SEE A2.2



(88) | FOR MORE LOCATION DETAILS SEE A2.2



(89) | FOR MORE LOCATION DETAILS SEE A2.2



(90) | FOR MORE LOCATION DETAILS SEE A2.2

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IPG INGENIUM PROFESSIONAL GROUP
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Tel. (787) 918-5890 / 5891
Email: info@ingeniumgroup

SIGNATURE
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PHOTO DOCUMENTATION QUADRANT B

DRAWING No.
A2.9

P H O T O D O C U M E N T A T I O N Q U A D R A N T B



70 | FOR MORE LOCATION DETAILS SEE A2.2



72 | FOR MORE LOCATION DETAILS SEE A2.2

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PHOTO DOCUMENTATION QUADRANT B

DRAWING No.

A2.10

P H O T O D O C U M E N T A T I O N Q U A D R A N T C



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4 | FOR MORE LOCATION DETAILS SEE A2.3



5 | FOR MORE LOCATION DETAILS SEE A2.3



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57 | FOR MORE LOCATION DETAILS SEE A2.3



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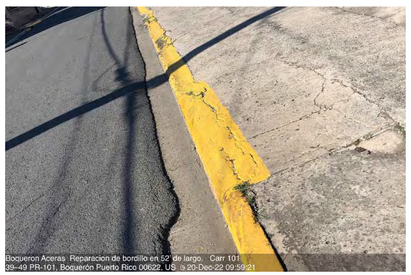
64 | FOR MORE LOCATION DETAILS SEE A2.3



65 | FOR MORE LOCATION DETAILS SEE A2.3



66 | FOR MORE LOCATION DETAILS SEE A2.3



67 | FOR MORE LOCATION DETAILS SEE A2.3



68 | FOR MORE LOCATION DETAILS SEE A2.3



69 | FOR MORE LOCATION DETAILS SEE A2.3

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

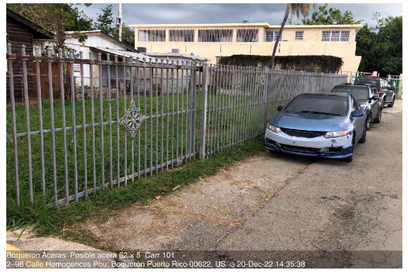
TITLE

PHOTO DOCUMENTATION QUADRANT C

DRAWING No.

A2.11

P H O T O D O C U M E N T A T I O N Q U A D R A N T D



(2) | FOR MORE LOCATION DETAILS SEE A2.4



(7) | FOR MORE LOCATION DETAILS SEE A2.4



(8) | FOR MORE LOCATION DETAILS SEE A2.4



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(54) | FOR MORE LOCATION DETAILS SEE A2.4



(55) | FOR MORE LOCATION DETAILS SEE A2.4



(56) | FOR MORE LOCATION DETAILS SEE A2.4

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FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PHOTO DOCUMENTATION QUADRANT D

DRAWING No.
A2.12

P H O T O D O C U M E N T A T I O N Q U A D R A N T D



9 | FOR MORE LOCATION DETAILS SEE A2.5



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26 | FOR MORE LOCATION DETAILS SEE A2.5



27 | FOR MORE LOCATION DETAILS SEE A2.5

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PROJECT
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FILE

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PHOTO DOCUMENTATION QUADRANT D

DRAWING No.

A2.13

PHOTO DOCUMENTATION QUADRANT E & F



38 | FOR MORE LOCATION DETAILS SEE A2.5



39 | FOR MORE LOCATION DETAILS SEE A2.5



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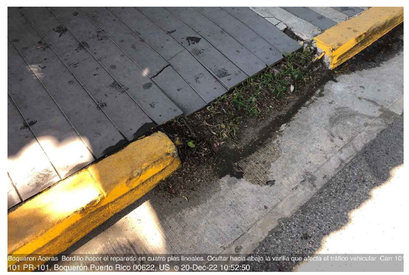

50 | FOR MORE LOCATION DETAILS SEE A2.5

PROJECT ADDRESS
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Progress Print:

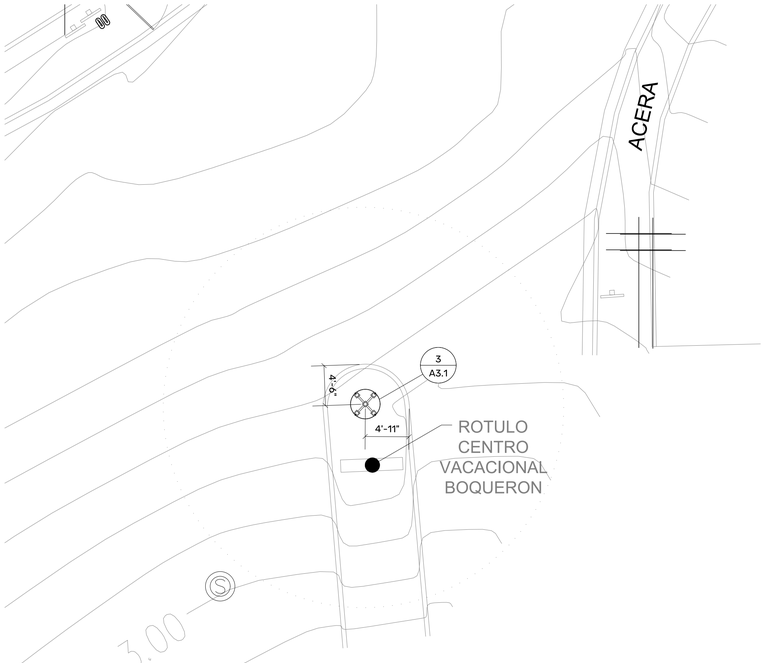
TITLE
PHOTO DOCUMENTATION QUADRANT E & F

DRAWING No.
A2.14



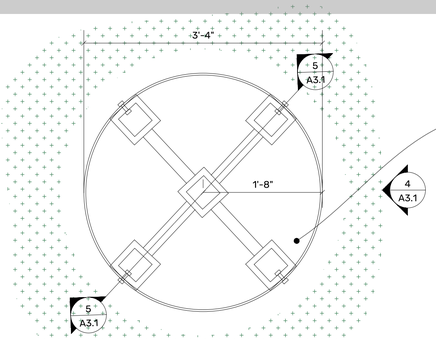
1 EMBLEMATIC ENTRANCE LOCATION PLAN-JOSE DE DIEGO STREET

SCALE: 1-1/2"=1'-0"



2 EMBLEMATIC ENTRANCE LOCATION PLAN-LUIS MUÑOZ RIVERA STREET

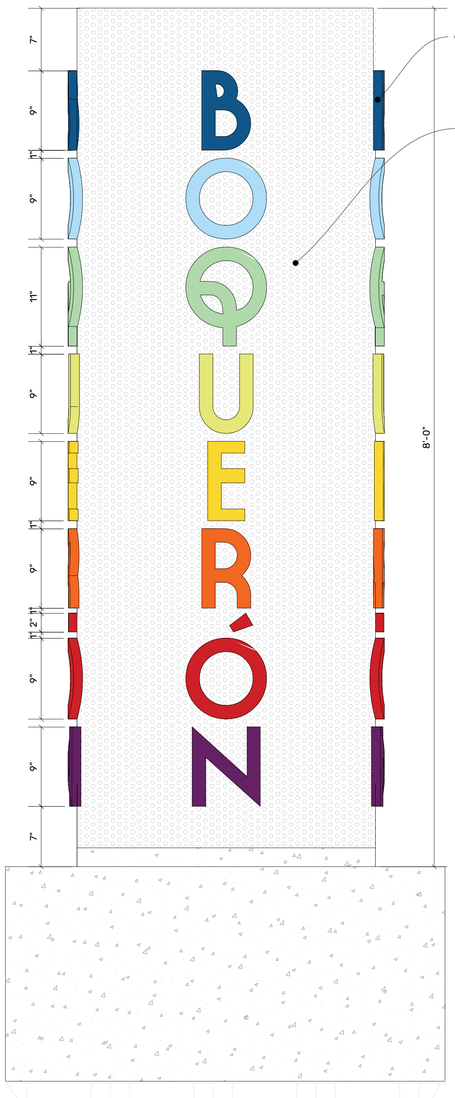
SCALE: 1-1/2"=1'-0"



FOR MORE INFORMATION OF FOOTING SEE SHEET A3.2

3 TYP. EMBLEMATIC ENTRANCE PLAN_PLAN VIEW

SCALE: 1/2"=1'-0"

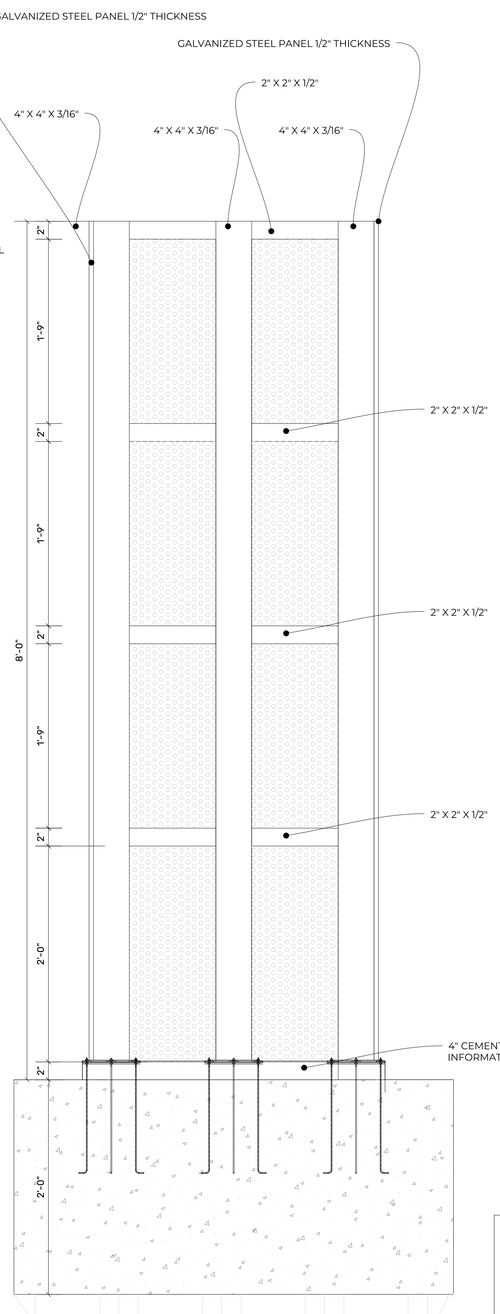


CORPORATE LETTERING -VINYL

GALVANIZED STEEL PANEL 1/2" THICKNESS

4 TYP. EMBLEMATIC ENTRANCE PLAN_ELEVATION

SCALE: 1/2"=1'-0"



4" CEMENT PEDESTAL TOP MUST BE FLAT LEVELED. OR MORE INFORMATION OF FOOTING SEE SHEET A3.2

5 TYP. EMBLEMATIC ENTRANCE PLAN_SECTION

SCALE: 1/2"=1'-0"

IMPORTANT NOTE:

THESE PLANS SHOW THE CONCEPT AND INTENT OF THE DESIGN AND GENERAL LAYOUT TO MEET OWNER AND CODE REQUIREMENTS. THEY ARE NOT INTENDED TO SUPERSEDE AND/OR WAIVE THE REQUIREMENTS OF THE SHOP/FABRICATION AND INSTALLATION DRAWINGS THAT MUST BE SUBMITTED FOR FINAL APPROVAL BY THE OWNER AND ARCHITECT.

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

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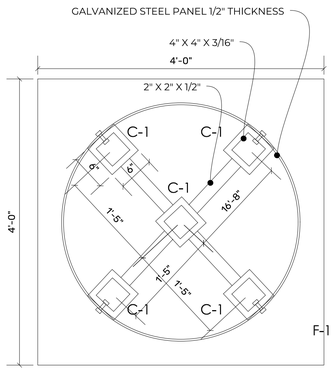
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

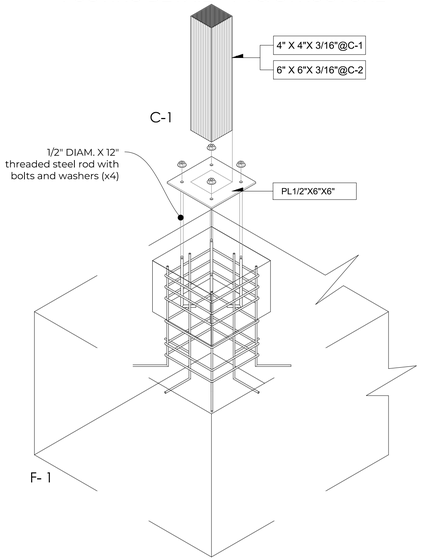
PROPOSED DESIGN OF ENTRANCES TO THE TOWN BOQUERON

DRAWING No.

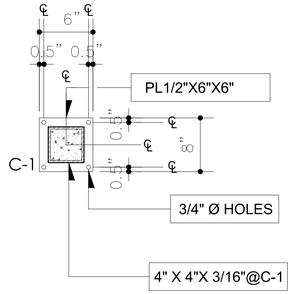
A3.1

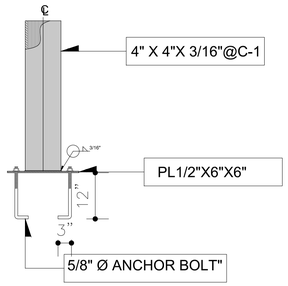


FOOTING DETAIL - F1 & STRUCTURE



COLUMN DETAIL - C1





COLUMN DETAIL - C1

FOOTINGS SCHEDULE				
TYPE	A X B	T	REINFORCEMENT No.1	REINFORCEMENT No.2
F-1	48" X 48"	18"	5 # 5 x 78" [LENGTH]	18 # 5 x 30" [LENGTH]

1 EMBLEMATIC SIGN_FOOTING DETAILS

SCALE: AS SHOWN

TOTEM TECHNICAL SPECIFICATIONS

DIMENSIONS: DIAM 3'-4". H= 8'-0"

SUBSTRATE: It is important to note that the site totem is not luminous.The totem substrate must consist of two sheets of 3/4" thick galvanized steel, fastened to the square tubes of the internal structure by means of flat screws. The screens shall be fixed by a system of rivets or screws.The joints shall be reinforced with steel profiles coated with electrostatic colored paint of The joints shall be reinforced by steel profiles covered with gray electrostatic paint.

BOTTOM: The bottom of the panel shall be made of galvanized steel, where the content of the sign shall be engraved. The pictogram shall be placed on the upper part, which shall be composed of a retroreflective foil that complies with the following requirements.

The bottom of the panel shall be galvanized steel, where the content of the sign shall be engraved; the pictogram shall be placed on the upper part, which shall consist of a retroreflective sheet that complies with ASTM IV specifications. The electro-cut sheeting that gives the shape and color of the pictogram used shall be placed on top of it.

STRUCTURE: The internal support shall be constructed as follows:

The structure shall be constructed of 4" galvanized square tubing forming a The structure shall be built with 4" mm square galvanized tubes forming a frame which shall be fixed to the aluminum composite panels.

The structure shall consist of 5 square tubes of 4" and 3/16" mm thick arranged vertically at symmetrical distances at symmetrical distances vertically at symmetrical distances, connected to 5 tubes of 2" and 3/16" thick arranged horizontally, welded with electrodes 6 and 7.welded with 6011 electrodes, forming a rectangular panel.

For the construction of the totem, 1 panel will be necessary, joined by several segments of square tube at symmetrical distances, joined to 4 tubes of 4" mm and 3/16" thickness at symmetrical distances, creating a rigid frame, to which the rest of the totem's structures will be joined the other structures of the totem.

The rigid frame must be welded with 6011 electrodes to a base formed by a 6" x 6" metal plate x 1/2" thick, which will have 4 holes of 3/4" in diameter; these will be used to hold the These will be used to attach the totem to the concrete plinth.The interior structure will have an anticorrosive treatment and two coats of automotive paint.

PLINTH: It shall be made of reinforced concrete 3500 PSI with the following dimensions: 48" X 48".The concrete shall be 24" thick, with fine troweled plaster. The base must have a structural reinforcement structural reinforcement constructed with reinforcing steel.

The fastening between the concrete base and the totem pole structure will be done by means of an assembly of nuts and of nuts and pressure washers on the studs (one nut and one washer for each stud). The The stud bolts, nuts and lock washers must be of galvanized type to avoid corrosion and rapid deterioration of the structure and rapid deterioration of the structure.



LUIS MUÑOZ RIVERA STREET VIEW

SCALE: NOT TO SCALE



JOSE DE DIEGO STREET VIEW

SCALE: NOT TO SCALE

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

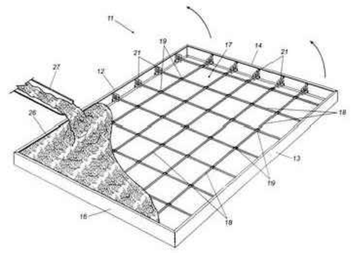
TITLE

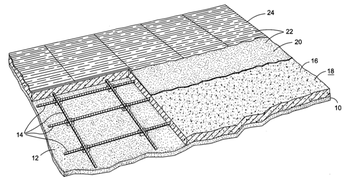
PROPOSED DESIGN OF ENTRANCES TO THE TOWN BOQUERON_DETAILS

DRAWING No.

A3.2







1.1 CONCRETE MIX DESIGN

NOTE: IF THE ENTIRE CONCRETE PAVING WORK FOR PROJECT IS COVERED UNDER THIS SECTION, IT MUST BE REVISED TO INCLUDE BASIC REQUIREMENTS IN PART 2 AND PART 3 THAT ARE CONTAINED IN THE REFERENCED SECTION BELOW.

A. GENERAL: REFER TO SECTION 321313 "CONCRETE PAVING" FOR BASIC CONCRETE PAVING REQUIREMENTS, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, AND MIXING.

B. MINIMUM CEMENT CONTENT: 5-1/2 SACKS PER CUBIC YARD OF CONCRETE.

C. MIX DESIGN MUST NOT PERMIT SEGREGATION OF CONCRETE MATERIALS DURING PUMPING, PLACING, OR CONSOLIDATION OF CONCRETE. SLUMP NOT TO EXCEED 4 INCHES.

D. ADMIXTURES:

1. A NORMAL OR RETARDED-SET, WATER-REDUCING ADMIXTURE IS PERMISSIBLE.
2. AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH ASTM C 260 IS ACCEPTABLE WHERE FREEZE/THAW DURABILITY IS REQUIRED.
3. A NONCHLORIDE ACCELERATOR IS ACCEPTABLE FOR COLD WEATHER CONCRETE PLACEMENT.
4. DO NOT ADD A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER).

E. DO NOT ADD CALCIUM CHLORIDE TO CONCRETE MIX.

F. USE OF FLY ASH AS A CEMENT REPLACEMENT MAY BE ACCEPTABLE, SUBJECT TO MANUFACTURER'S CURRENT RECOMMENDATIONS.

G. DO NOT ADD WATER TO THE MIX IN THE FIELD.

2.1 SUBGRADE PREPARATION

A. SUBGRADE TO RECEIVE STAMPED CONCRETE PAVING WORK MUST BE WELL DRAINED AND HAVE ADEQUATE, UNIFORM LOADBEARING CHARACTERISTICS.

1. VERIFY GRADING WILL ENSURE A UNIFORM CONCRETE THICKNESS DURING CONCRETE PLACEMENT.

B. AT THE TIME OF CONCRETE PLACEMENT, SUBGRADE MUST BE MOIST, COMPLETELY CONSOLIDATED, AND FREE FROM FROST. IF NECESSARY, SUBGRADE MAY BE DAMPENED WITH WATER PRIOR TO PLACEMENT; HOWEVER, FREESTANDING WATER OR SOFT, MUDDY, OR FROZEN GROUND IN NOT PERMISSIBLE.

2.2 CONCRETE PLACEMENT

A. GENERAL: PLACE AND SPREAD CONCRETE TO COMPLETELY FILL ALL SPACE INSIDE FORMS. MOVE CONCRETE INTO PLACE WITH SQUARE-TIPPED SHOVELS OR CONCRETE RAKES.

B. CONSOLIDATE CONCRETE BY TAMPING OR VIBRATING TO PROVIDE A SUITABLE SURFACE FOR FINISHING.

C. PRIOR TO APPEARANCE OF EXCESS MOISTURE OR BLEED WATER, SCREED CONCRETE WITH WOOD OR MAGNESIUM STRAIGHT EDGE OR MECHANICAL VIBRATING SCREED.

D. CONTINUE CONCRETE SURFACE LEVELING AND CONSOLIDATION WITH HIGHWAY MAGNESIUM STRAIGHT EDGE AND (OR) MAGNESIUM BULL FLOAT.

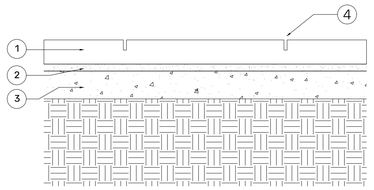
E. MECHANICALLY FLOAT CONCRETE SURFACES TO REQUIRED FLATNESS AND LEVELNESS AS SOON AS CONCRETE SURFACE HAS TAKEN ITS INITIAL SET AND WILL SUPPORT WEIGHT OF A POWER FLOAT MACHINE EQUIPPED WITH FLOAT SHOES OR COMBINATION BLADES AND OPERATOR.

1. COMPLY WITH ACI 302.1R FOR ACCEPTABLE TOLERANCES.

F. COMPLETED CONCRETE PLACEMENT TO RESULT IN AN OPEN SURFACE SUITABLE TO RECEIVE COLORED HARDENER.

1 STAMPED CONCRETE FLOOR INSTALATION

SCALE: NTS



1. 6" CONCRETE THICKNESS
2. PROCESSED SAND 1 1/2"
3. EXISTING BASE NEW COMPACTED
4. STAMPED MARK ON CONCRETE

STAMPED CONCRETE INSTALLATION PROCEDURE

3.3 STAMPED CONCRETE PAVING INSTALLATION

A. APPLY 2/3 OF DRY-SHAKE COLORED HARDENER AT SPECIFIED APPLICATION RATE TO FRESHLY FLOATED CONCRETE SURFACE. BLEED WATER MUST NOT BE PRESENT DURING OR FOLLOWING APPLICATION OF FIRST AND SECOND DRY-SHAKE APPLICATIONS.

B. DO NOT THROW DRY-SHAKE COLORED HARDENER MATERIAL; DISTRIBUTE EVENLY BY HAND OR MECHANICAL SPREADER DESIGNED TO APPLY FLOOR HARDENERS. MECHANICAL SPREADER MANUFACTURER AS ACCEPTABLE TO STAMPED CONCRETE PAVING MANUFACTURER.

C. AS SOON AS DRY-SHAKE MATERIAL HAS ABSORBED MOISTURE, INDICATED BY UNIFORM DARKENING OF SURFACE, MECHANICALLY FLOAT CONCRETE SURFACE A SECOND TIME, JUST ENOUGH TO BRING MOISTURE FROM BASE SLAB THROUGH DRY-SHAKE COLOR HARDENER.

D. IMMEDIATELY FOLLOWING SECOND FLOATING, APPLY REMAINING 1/3 OF DRY-SHAKE COLORED HARDENER AT SPECIFIED APPLICATION RATE. IF APPLIED BY HAND, BROADCAST IN OPPOSITE DIRECTION OF FIRST APPLICATION FOR A MORE UNIFORM COVERAGE. IF A MECHANICAL SPREADER IS USED, APPLY IN SAME MANNER AS PREVIOUSLY DESCRIBED.

E. AS SOON AS DRY-SHAKE MATERIAL HAS ABSORBED MOISTURE, MECHANICALLY FLOAT CONCRETE SURFACE A THIRD TIME.

F. DO NOT ADD WATER TO THE SURFACE.

G. BEGIN IMPRINTING OPERATIONS IMMEDIATELY AFTER APPLYING DRY-SHAKE COLORED HARDENER, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. INCLUDING APPLICATION OF POWDER ANTIQUING RELEASE AGENT.

SEALING

A. PRIOR TO SEALING, THE FOLLOWING CONDITIONS MUST BE PRESENT:

1. RELEASE AGENT HAS BEEN REMOVED.
2. MOISTURE CONTENT OF CONCRETE IS LOW ENOUGH THAT ALKALI AND OTHER SALTS DO NOT BECOME TRAPPED BENEATH SEALER. THIS WILL REQUIRE A MINIMUM OF 28 DAYS SUBSEQUENT TO CONCRETE PLACEMENT, OR LONGER IF REQUIRED.
3. NO EVIDENCE OF FREE WATER ON CONCRETE SURFACES TO RECEIVE CURING AND SEALING COMPOUND.

B. SEAL IMPRINTED CONCRETE WITH LIQUID MEMBRANE CURING AND SEALING COMPOUNDS AS RECOMMENDED BY MANUFACTURER.

C. APPLY TWO COATS OF SPECIFIED CURING AND SEALING COMPOUND ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

2.5 PROTECTION OF FINISHED WORK

A. PROHIBIT FOOT OR VEHICULAR TRAFFIC ON THE NEWLY IMPRINTED CONCRETE SURFACE.

B. PROTECT FLOOR SURFACE FROM DAMAGE THROUGHOUT REMAINDER OF CONSTRUCTION PERIOD UNTIL FINAL ACCEPTANCE OF THE WORK. IF A COVERING MATERIAL IS NECESSARY, SURFACES MUST REMAIN UNCOVERED FOR A MINIMUM OF FOUR DAYS AFTER WHICH THEY MAY BE COVERED WITH A NEW, SMOOTH, NONSTAINING REINFORCED KRAFT CURING PAPER. PLASTIC SHEETING IS UNACCEPTABLE AS A COVERING MATERIAL.

2 STAMPED CONCRETE FLOOR DETAIL

SCALE: NTS

PROPOSED STAMPING DESIGN_SITE PLAN

SCALE: 1:1000

STAMPED CONCRETE TECHNIQUE
FOR EXTERIOR FLOOR WITH
DIFFERENT COLOR TONES

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

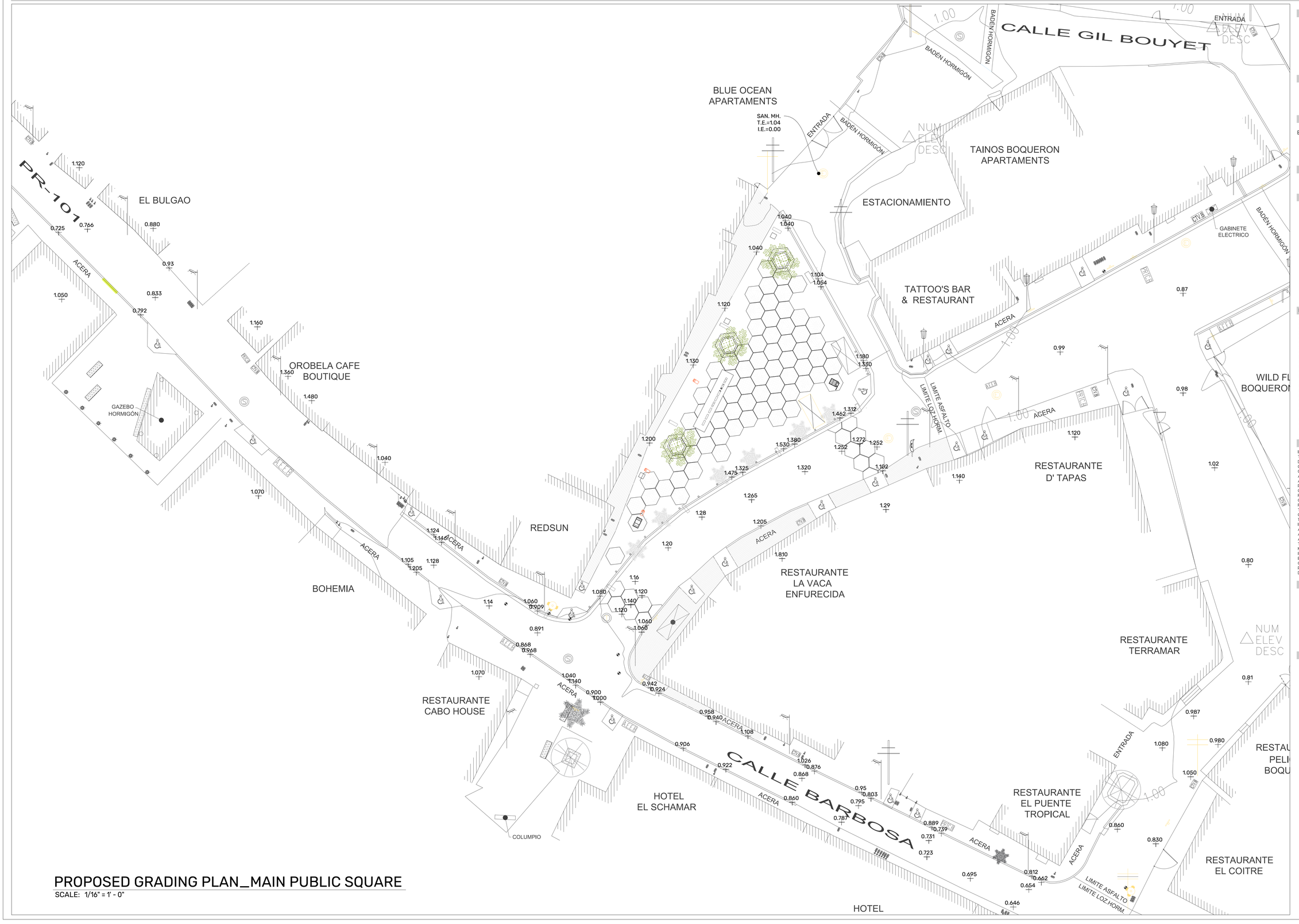
TITLE

PROPOSED STAMPING DESIGN_SITE PLAN

DRAWING No.

A4.1

P R O P O S E D G R A D I N G P L A N _ M A I N P U B L I C S Q U A R E



PROPOSED GRADING PLAN_MAIN PUBLIC SQUARE

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

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3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

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IPG INGENIUM PROFESSIONAL GROUP

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Tel: (787) 918-5890 / 5891
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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

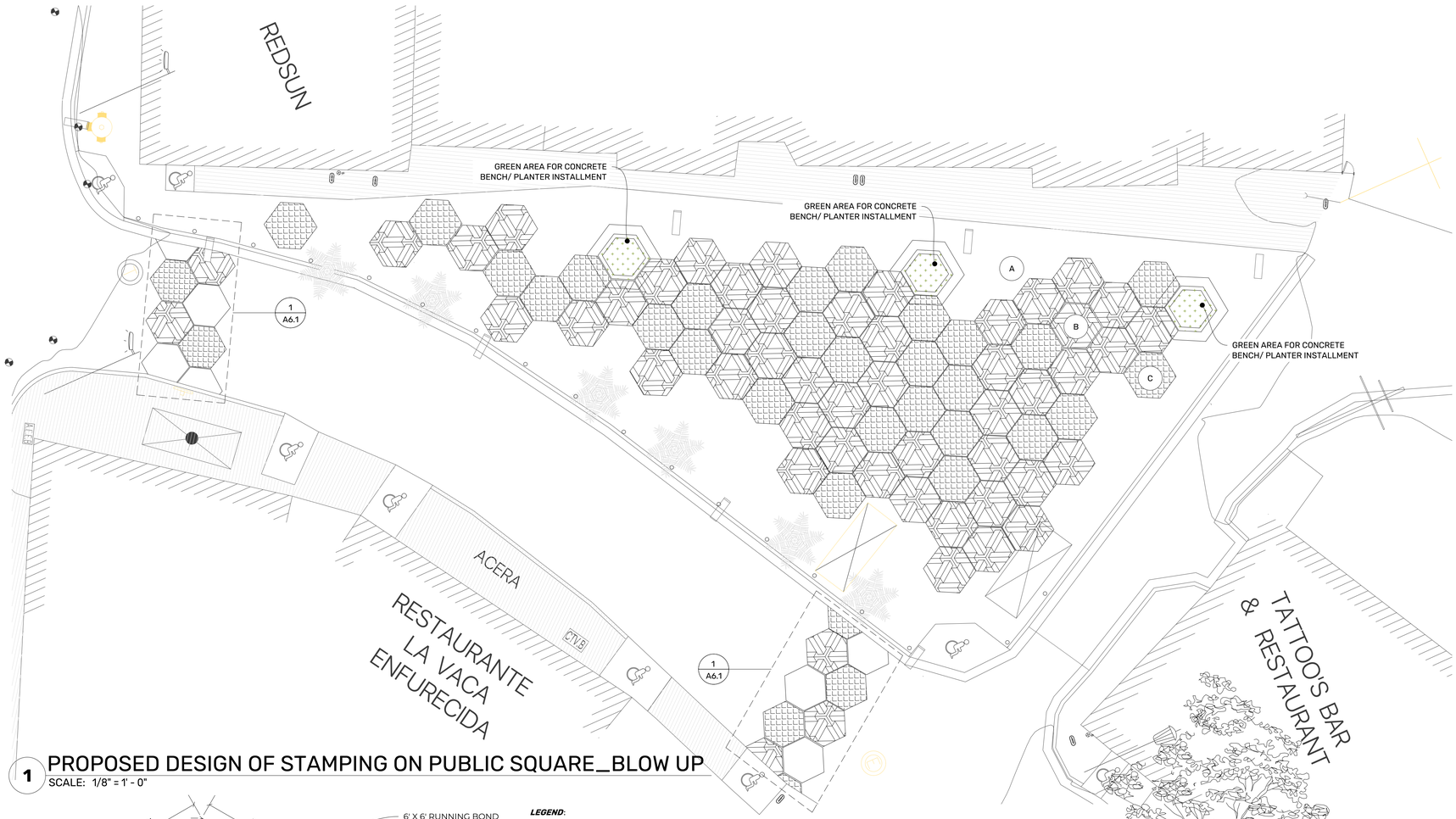
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED GRADING PLAN_MAIN PUBLIC SQUARE

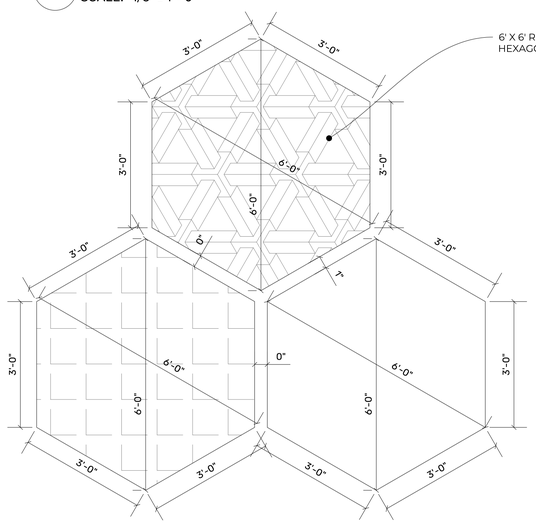
DRAWING No.

A4.2



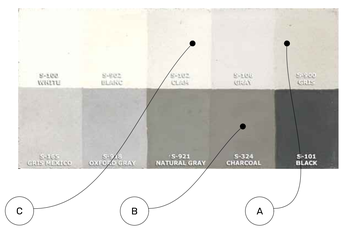
1 PROPOSED DESIGN OF STAMPING ON PUBLIC SQUARE_BLOW UP

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



LEGEND:

- TINTED STAMPED CONCRETE TYPE B
- TINTED STAMPED CONCRETE TYPE C
- TINTED STAMPED CONCRETE TYPE A

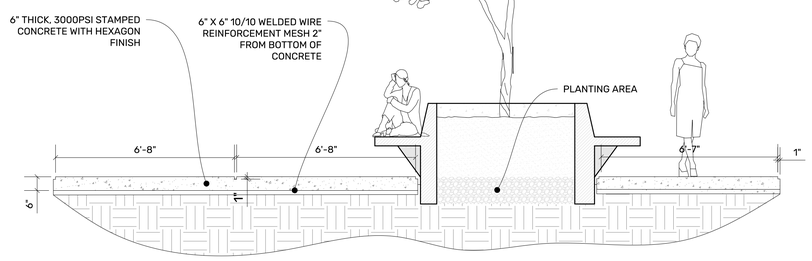


CONCRETE STAMP NOTES:

PROVIDE CONTROL JOINTS SPACED EVERY 10 FEET ON CENTER. PROVIDE EXPANSION JOINTS AT ALL RIGID OBJECTS.

2 PROPOSED TINTED CONCRETE PALETTE & GEOMETRY

SCALE: NTS



3 PROPOSED DESIGN OF STAMPING ON PUBLIC SQUARE_BLOW UP

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

PAVEMENT NOTES

SUBMITTALS

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING TO THE ARCHITECT, IN ACCORDANCE WITH THIS SPECIFICATION AND THE SPECIAL PROVISIONS:
.1 SHOP DRAWINGS AND PROPOSED PROCEDURES FOR GALVANIC PROTECTION INSTALLATION THAT ARE SIGNED, SEALED AND DATED BY A PROFESSIONAL ENGINEER REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.
SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO THE CONTRACTOR PROCEEDING WITH THE WORK.
.2 PRODUCT DATA SHEETS AND INSTALLATION PROCEDURES FOR PROPOSED CONCRETE REPAIR MORTAR(S).

CONCRETE REMOVAL

ALL AREAS OF UNSOUND CONCRETE TO BE REPAIRED WILL BE MARKED BY THE ENGINEER ONCE THE CONTRACTOR HAS CLEANED THE EXISTING SURFACE AS PER SECTION 5.1 OF THIS SPECIFICATION. THE CONTRACTOR SHALL SAW CUT THE OUTER PERIMETER OF THE REPAIR AREAS 25 MM DEEP OR AS DIRECTED BY THE ENGINEER. FEATHERED EDGES WILL NOT BE ACCEPTABLE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT THE EXISTING REINFORCING STEEL OR PRESTRESSING STRANDS (IF APPLICABLE) ARE NOT DAMAGED DURING SAW CUTTING. ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY PORTION OF THE STRUCTURE NOT INTENDED FOR REPAIR SHALL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.
THE CONTRACTOR SHALL REMOVE ALL AREAS OF UNSOUND CONCRETE BY CHIPPING OR OTHER APPROVED METHODS. ONLY CHIPPING HAMMERS OF THE 15 KG CLASS OR LESS SHALL BE USED, AND OPERATED AT AN ANGLE OF 45 DEGREES OR LESS FROM THE HORIZONTAL. THE CONTRACTOR SHALL EXERCISE CAUTION AND TAKE CARE NOT TO DAMAGE ANY EXISTING REINFORCING STEEL INTENDED TO REMAIN IN PLACE.

FULL DEPTH REPAIR

WHERE UNSOUND CONCRETE EXTENDS BEYOND MID DEPTH OF THE CONCRETE SLAB AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL CONTINUE TO REMOVE ALL FURTHER CONCRETE WITHIN THE REPAIR AREA TO THE FULL DEPTH OF THE SLAB. ALL EXISTING REINFORCING STEEL SHALL BE RETIED AND CHAIRED AS NECESSARY. THE REPAIR AREAS SHALL BE NEATLY FORMED TO RESTORE THE ORIGINAL AND PROPOSED GEOMETRY OF THE CONCRETE SLAB. FORMS SHALL NOT BE SUSPENDED FROM EXISTING REINFORCING STEEL.

THE CONTRACTOR SHALL SUPPLY AND PLACE ADDITIONAL REINFORCING STEEL AS DIRECTED BY THE ENGINEER WHEN THE EXISTING REINFORCING STEEL HAS A SECTION LOSS OF 25% OR GREATER. THE REINFORCING STEEL SHALL BE OF THE SAME
TYPE AND SIZE AS THE EXISTING, AND SPLICED WITH A MINIMUM LAP LENGTH OF 30 BAR DIAMETERS. EXPOSED REINFORCING STEEL SHALL BE SANDBLASTED CLEAN AND MAINTAINED TO A NEAR WHITE CONDITION. THE CONTRACTOR SHALL ROUGHEN ALL AREAS OF THE EXISTING SOUND CONCRETE SUBSTRATE TO A 6 MM AMPLITUDE USING METHODS ACCEPTABLE TO THE ENGINEER.

ALL RESULTING MATERIAL AND BY-PRODUCTS FROM DEMOLITION OPERATIONS SHALL BE COLLECTED, LOADED, HAULED, AND DISPOSED OF BY THE CONTRACTOR AT AN APPROVED WASTE DISPOSAL FACILITY.

SURFACE PREPARATION

IMMEDIATELY PRIOR TO PLACING THE REPAIR MORTAR OR CONCRETE, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE EXISTING CONCRETE SURFACES AND FORMED REPAIR AREAS, AND APPLY A LOW RESISTIVITY BONDING AGENT OR CEMENT SLURRY AS RECOMMENDED BY THE REPAIR MORTAR MANUFACTURER OR AS DIRECTED BY THE ENGINEER.

REPAIR MORTAR PLACEMENT AND FINISHING

THE CONCRETE REPAIR MORTAR SHALL BE HANDLED, STORED, MIXED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

IMMEDIATELY PRIOR TO PLACING THE REPAIR MORTAR, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE EXISTING CONCRETE SURFACES AND FORMED REPAIR AREAS, AND APPLY A LOW RESISTIVITY BONDING AGENT OR CEMENT SLURRY AS RECOMMENDED BY THE REPAIR MORTAR MANUFACTURER OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL PLACE THE REPAIR MORTAR SUCH THAT THE EXISTING PROFILE AND CROSS SECTION ARE RESTORED TO THEIR ORIGINAL DIMENSIONS. ANY DEVIATIONS OF 5 MM OR GREATER FROM THE REPAIRED AREAS TO THE EXISTING SURFACE
SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

IF THE EXISTING OR REPAIR CONCRETE SURFACE IS DAMAGED IN ANY WAY BY CONSTRUCTION OPERATIONS, OR IF THE CONCRETE REPAIR SHOWS SIGNS OF DISTRESS OR SCALING PRIOR TO FINAL ACCEPTANCE, IT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

THE CONTRACTOR SHALL APPLY A BROOM FINISH TO ALL DECK SLAB REPAIR AREAS. BROOMING SHALL BE DONE WHEN THE REPAIR MORTAR HAS HARDENED SUFFICIENTLY. THE BROOM SHALL BE OF AN APPROVED TYPE. EACH BROOM STROKE SHALL BE CONTINUOUS FOR THE FULL WIDTH OF THE AREA BEING FINISHED, AND AT A RIGHT ANGLE TO THE CENTRELINE OF ROADWAY. ONLY ONE (1) STROKE PER WIDTH OF THE BROOM WILL BE ACCEPTABLE WITH ADJACENT STROKES SLIGHTLY OVERLAPPED. THE BROOM SHALL BE DRAWN EVENLY WITHOUT TEARING OF THE CONCRETE TO PRODUCE REGULAR CORRUGATIONS OF 3 MM IN DEPTH. THE BROOM SHALL BE CLEANED IN WATER AFTER EACH STROKE.

ALL OTHER REPAIR AREAS SHALL BE FINISHED TO A LEVEL SIMILAR TO THE ADJACENT EXISTING CONCRETE SURFACES AS DIRECTED BY THE ENGINEER.

CURING

CURING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR AS OTHERWISE DIRECTED BY THE ENGINEER.

OPENING TO TRAFFIC

FOR CONCRETE DECK REPAIRS, THE STRUCTURE SHALL NOT BE OPENED TO TRAFFIC UNTIL THE CONCRETE REPAIR HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 35 MPA.

GENERAL QUALITY MANAGEMENT NOTES

CONCRETE REPAIR MORTAR THAT IS NOT STORED, HANDLED, PREPARED, PLACED, OR CURED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS WILL BE REJECTED BY THE ENGINEER AND HIS/HER DECISION SHALL BE CONSIDERED FINAL.
THE ENGINEER RESERVES THE RIGHT TO REQUIRE IMMEDIATE REMOVAL OF ANY CONCRETE FROM REJECTED BATCHES THAT MAY HAVE ALREADY BEEN PLACED IN THE STRUCTURE.

QUALITY ASSURANCE TESTING WILL BE CARRIED OUT BY THE ENGINEER AND ALL ASSOCIATED COSTS WILL BE PAID FOR BY THE DEPARTMENT. THERE SHALL BE NO CHARGE TO THE DEPARTMENT FOR MATERIALS TAKEN BY THE ENGINEER FOR TESTING PURPOSES.

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

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SIGNATURE

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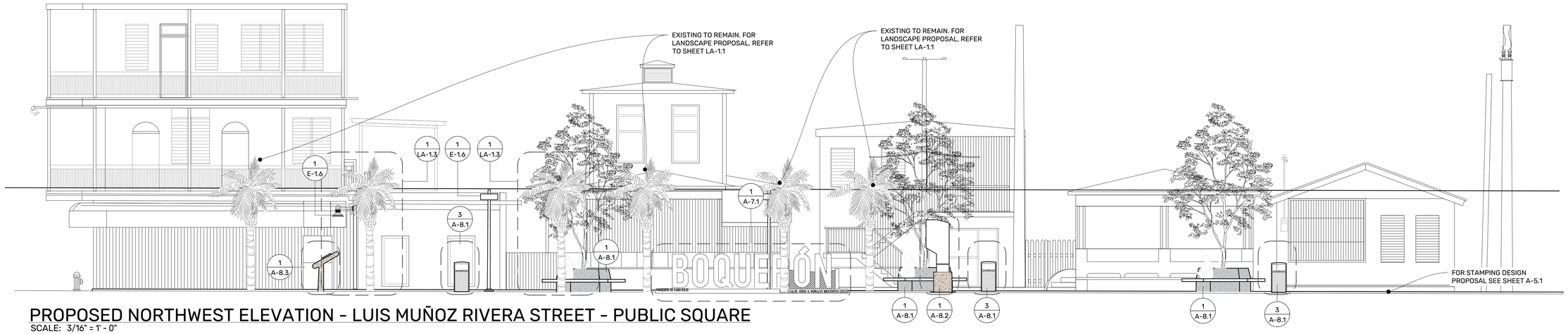
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED STAMPING DESIGN ON PUBLIC SQUARE_BLOW UP

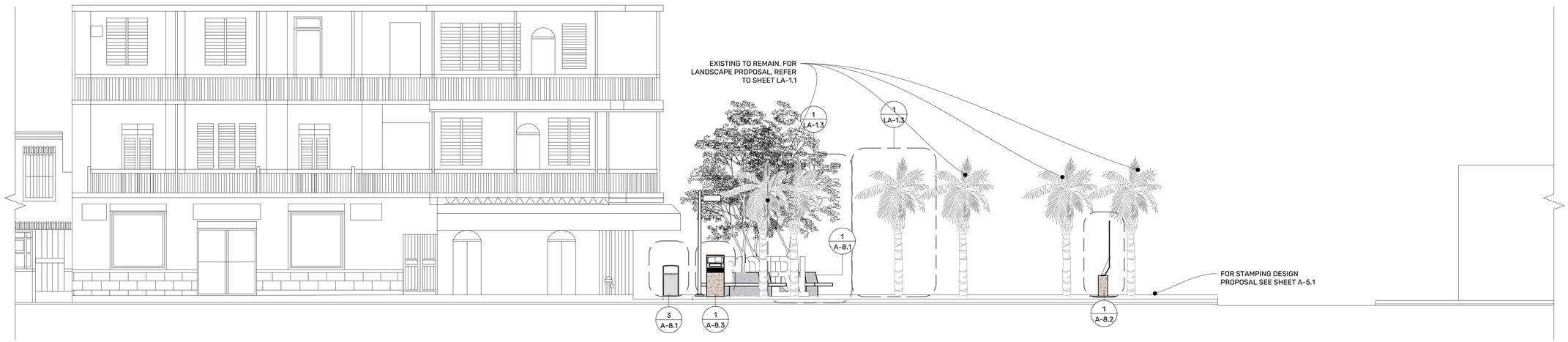
DRAWING No.

A5.1



PROPOSED NORTHWEST ELEVATION - LUIS MUÑOZ RIVERA STREET - PUBLIC SQUARE

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



PROPOSED NORTH ELEVATION - JOSE DE DIEGO STREET

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



PROPOSED NORTH ELEVATION - GIL BOUYET STREET

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

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PROPOSED ELEVATIONS_MAIN PUBLIC SQUARE

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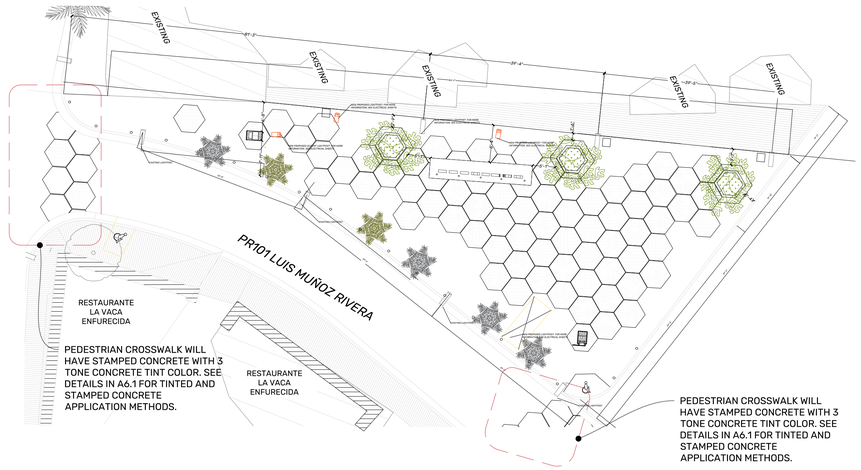
P R O P O S E D P A T T E R N F I N I S H F L O O R





THE CONTRACTOR SHALL USE PRODUCTS AND INSTALLATION METHODS EQUAL OR SIMILAR TO THE FOLLOWING:

IMPORTANT NOTE:

FOR MORE INFORMATION OF STAMPED CONCRETE INSTALLATION PROCEDURE SEE SHEET A-4.1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, IN ACCORDANCE WITH THESE SPECIFICATIONS, SHOP DRAWINGS OF THE PROCEDURE AND COLORS TO BE USED FOR THE PERFORMANCE OF THIS WORK.

Texture Mat Instructions

PLANNING THE PROJECT

DECORATIVE CONCRETE IS AN ATTRACTIVE, ECONOMICAL ALTERNATIVE TO NATURAL PAVING MATERIALS OR PLAIN POURED CONCRETE. YOU CAN ACHIEVE MANY DIFFERENT LOOKS AND WITH ADVANCE PLANNING YOU SHOULD BE ABLE TO GET JUST THE RIGHT LOOK FOR THE PROJECT. THE COLOR OF THE CONCRETE AND THE NATURAL SURROUNDINGS AND ADJACENT STRUCTURES.

SPECIAL CONSIDERATION SHOULD BE GIVEN TO THE ORIENTATION OF GROUT LINES. PARTICULARLY IN REPETITIVE PATTERNS SUCH RUNNING BOND BRICK OR COBBLESTONE. GENERALLY, THE AREA SHOULD BE STAMPED SO THAT LONG LINES OF THE PATTERN RUN PERPENDICULAR TO THE LENGTH OF THE PROJECT. THIS WILL HELP REDUCE STRAIGHT-LINE ERRORS AND PROVIDE A MORE PLEASANT OVERALL APPEARANCE. TYPICALLY TEXTURE RUNS IN STRAIGHT LINES (STRAIGHT BOND) EVEN WHEN WALKS OR DRIVES ARE CURVED.

PERFORM A TRIAL RUN, PLACING MATS IN THE AREA PRIOR TO THE POUR. THE CREW SHOULD KNOW AHEAD OF TIME WHERE THE FIRST MAT WILL BE PLACED AND IN WHAT DIRECTION STAMPING WILL PROCEED. ALSO, BE AWARE OF AREAS WHERE A STANDARD MAT WON'T FIT AND PLAN ACCORDINGLY.

PLACING CONCRETE

THE CONCRETE SHOULD BE PLACED FOLLOWING NORMAL PROCEDURES WITH A SUB-GRADE AND CONCRETE BASE THAT MEET THE PLAN SPECIFICATIONS AND LOCAL REQUIREMENTS FOR MIX, DEPTH AND REINFORCEMENT.

A NORMAL OR RETARDED-SET, WATER-REDUCING ADMIXTURE CAN BE USED, BUT ADMIXES MUST NOT CONTAIN CALCIUM CHLORIDE. NON-CHLORIDE ACCELERATORS AND AIR-RETAINING ADMIXTURES CAN BE USED. REFER TO THE ADMIXTURE MANUFACTURER FOR RECOMMENDATIONS ON THE TYPE AND AMOUNT OF ADMIXTURE TO USE. (PLEASE NOTE: SOME ADMIXTURES MAY AFFECT COLOR). THE CONCRETE SHOULD BE FOUR INCHES OR GREATER IN THICKNESS. OTHER CONSIDERATIONS SHOULD BE TAKEN AS OUTLINED BELOW.





CONCRETE MIX CHECKLIST

- MINIMUM FIVE SACKS OF CEMENT PER CUBIC YARD
- COARSE AGGREGATE NOT EXCEED $\frac{3}{4}$""
- AGGREGATE MUST BE NON-REACTIVE
- MINIMUM PRACTICABLE AMOUNT OF WATER SHOULD BE USED
- SLUMP NOT TO EXCEED 4"
- NO HIGH-RANGE WATER REDUCING ADMIXTURES

COLORING CONCRETE

BON TOOL CO. OFFERS TWO OPTIONS FOR COLORING CONCRETE:

- INTEGRAL COLOR: BON'S IRONXX™ POWDER IS ADDED TO THE READY MIX TRUCK. THIS COMBINES THE COLOR WITH THE MIX PRIOR TO THE POUR AND THE SALB IS COLORED THROUGHOUT, OR;
- BROADCAST METHOD: BON TRUE COLOR™ HARDENER POWDER IS APPLIED TO THE FRESHLY POURED CONCRETE SURFACE. BON TRUE COLOR™ HARDENER PENETRATES THE TOP $\frac{1}{8}$" OF THE CONCRETE SLAB.

IRONXX™ IS AVALIBLE IN 10 AND 25 LB. DISINTEGRATING BAGS. GENERALLY, 1-2 LBS. PER 96 LBS. OF CEMENT YIELDS MORE INTENSE SHADES OF COLOR. (SEE BON'S COLOR CHART FOR APPROXIMATE COLORS). IF USING BON IRONSS™, FLOAT AND FINISH FOLLOWING NORMAL FINISHING PROCEDURES.

WHEN USING BON'S TRUE COLOR™ HARDENER, FINISH CONCRETE FOLLOWING NORMAL PROCEDURES USING A BON TANGO TAMPER, SCREED AND WOODEN OR MAGNESIUM FLOAT. THE SURFACE OF THE CONCRETE MUST REMAIN OPEN. DO NOT STEEL TROWEL UNTIL AFTER THE FINAL APPLICATION OF COLOR HARDENER.

OVERALL COVERAGE REQUIREMENTS VARY ACCORDING TO THE COLOR SELECTED AND THE DESIRE INTENSITY. GENERALLY 60 POUNDS PER 100 SQUARE FEET. TWO-THIRDS OF THE COLOR HARDENER SHOULD BE APPLIED AT FIRST AND ONE-THIRD SHOULD BE WITHHELD FOR THE SECOND APPLICATION AND FINAL TOUCH UP.

AFTER INITIAL FLOATING AND ALL EXCESS BLEED WATER HAS BEEN ABSORBED, BROADCAST BON TRUE COLOR™ HARDENER USING A WIDE SWEEPING ARM MOVEMENT WITH THE INTENTION OF COVERING AS MUCH CONCRETE AS POSSIBLE WITH EACH THROW. ALLOW THE HARDENER TO BE ABSORBED FOR SEVERAL MINUTES UNTIL IT HAS MOISTENED SUFFICIENTLY TO WORK THE COLOR IN WITH A WOODEN OR MAGNESIUM FLOAT. ONE PASS WITH THE FLOAT SHOULD BE SUFFICIENT. DO NOT OVERWORK THE CONCRETE. IF NECESSARY, REPEAT THIS PROCESS IN AREAS WHERE NATURAL CONCRETE IS SHOWING THROUGH. WHEN YOU ARE SATISFIED WITH THE COLOR, FINISH WITH A FRESNO OR STEEL TROWEL.

NOTE:

- THERE SHOULD BE NO STANDING WATER ON THE CONCRETE SURFACE WHEN APPLYING BON TRUE COLOR™ HARDENER. DO NOT OVER FLOAT OR TROWEL. THIS WILL DRAW WATER TO THE SURFACE AND REDUCE COLOR INTENSITY. DO NOT SPRINKLE OR FOG WATER ON THE CONCRETE. THIS WILL CAUSE VARIATIONS IN COLOR INTENSITY. DO NOT COVER WITH PLASTIC.

- COLOR HARDENER SETTLES DURING SHIPMENT. BEFORE BEGINNING, FLUFF THE CONTENTS OF THE PAIL WITH YOUR HAND TO BREAK UP CLUMPS AND PROVIDE A CONSISTENT AIRY FEEL THROUGHOUT THE PAIL.

APPLYING THE COLOR RELEASE AGENT

BON TOOL CO. TEXTURE MATS WILL NOT WORK WITHOUT THE USE OF A RELEASE AGENT. THIS SPECIALLY FORMULATED POWDER PREVENTS MATS FROM STICKING TO FRESHLY PLACED CONCRETE. GENERALLY 3.5 LBS. OF MATERIAL IN REQUIRED PER 100 SQUARE FEET.

AS THE SLAB APPROACHES ITS OPTIMUM SET FOR TEXTURING, THE RELEASE AGENT SHOULD BE APPLIED. IT SHOULD BE BRUSHED ONTO THE MATS AND BROADCAST ACROSS THE SURFACE OF THE CONCRETE. THERE SHOULD BE A UNIFORM LAYER OF RELEASE BETWEEN THE CONCRETE AND THE TEXTURE MATS; THICK ENOUGH TO PREVENT DAMP CONCRETE FROM BLEEDING THROUGH TO THE MAT, YET THIN ENOUGH SO AS NOT TO DIMINISH THE TEXTURE DETAIL.

CHOOSE A COLOR OF BON TRUE COLOR™ RELEASE AGENT TO COMPLEMENT THE COLOR OF THE CONCRETE. A RELEASE AGENT WITH A DARKER TONE THAN THE COLORING AGENT WILL PROVIDE DEPTH AND SHADOWING IN THE FINISHED CONCRETE. MOST OF THE RELEASE AGENT WILL BE REMOVED WHEN THE FINISHED PROJECT IS PRESSURE WASHED.

1 CONCRETE DYE & STAMPING DETAILS

SCALE: N.T.S

PROPOSED PATTERN FINISH FLOOR

SCALE: N.T.S

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO (MADE, DESIGNED OR PREPARED) THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED PATTERN FINISH FLOOR

DRAWING No.

A6.1

THE CONTRACTOR SHALL USE PRODUCTS AND INSTALLATION METHODS EQUAL OR SIMILAR TO THE FOLLOWING:

INSTRUCTIONS

SURFACE PREPARATION:

ALL FURNITURE, WALLS, OR OTHER ITEMS/AREAS YOU DO NOT WANT DYED SHOULD BE MASKED OFF PROPERLY USING PROPER TAPE AND PLASTIC. SURFACES TO BE DYED SHOULD BE FREE OF DUST, RESIDUE, AND OIL. SURFACES SHOULD BE DRY. FOR A POLISHED SURFACE SUCH AS A FLOOR OR COUNTERTOP, INITIAL GRINDING SHOULD BE COMPLETE AND NO MORE THAN THE 400 GRIT STAGE. BE SURE TO REMOVE ALL DUST AND GRIND RESI- DUE BEFORE PROCEEDING TO THE DYE STAGE. OVERLAYMENT SURFACES OR MICROTOPPINGS MAY BE OPTIONALLY SANDED LIGHTLY TO ENSURE ADEQUATE ABSORPTION PROPERTIES.

PRODUCT MIXING:

POUR A FULL BOTTLE OF CONCENTRATE INTO A ONE GALLON CONTAINER OR PROPERLY SIZED SPRAYER BODY. ADD WATER TO THE ONE GALLON MEASUREMENT. NO MIXING IS REQUIRED. IF USING LESSER AMOUNTS THAN ONE GALLON, THE END USER MUST CALCULATE THE PROPER WATER AD- DITION BASED ON THE AMOUNT OF CONCENTRATE USED. WATER IS TO BE ADDED AT A RATE OF 8 PARTS WATER TO 1 PART DYE. TIGHTLY CLOSE ANY UN- USED PORTION OF THE DYE AND STORE IN CLEAN DRY AREA.

PRODUCT APPLICATION:

ALWAYS TO A TEST SPOT IN A INCONSPICUOUS AREA TO VERIFY RESULTS. FOR SPRAYING, PUT DYE INTO A SPRAYER THAT HAS A GOOD CONICAL TIP FOR FINE SPRAY. FOR HOUSEKEEPING PURPOSES, CARRY A RAG OR ABSORBENT CLOTH ALONG WITH THE SPRAYER TO PLACE OVER THE TIP IMMEDIATELY AFTER RELEASING THE SPRAYER HANDLE TO CATCH AND POTENTIAL DRIPS. WITH ADEQUATE PRESSURE BEGIN SPRAYING DYE ONTO SURFACE HOLDING THE WAND 12-24 INCHES FROM THE SURFACE BEING CAREFUL TO OVERLAP AREAS LIGHTLY. A CIRCULAR MOTION WORKS BEST TO AVOID PATTERN LINES AND BLEED MARKS. IF A MORE UNIFORM FINISH IS DESIRED YOU MAY WANT TO HAVE A SECOND PERSON LIGHTLY WORK THE DYE INTO THE SURFACE WITH A SOFT SPLIT BRISTLE BRUSH. DO NOT ALLOW TO PUDDLE! COLORS MAY BE BLENDED OR ADDITIONAL COLORS MAY BE APPLIED WITH SECONDARY COATS OVER A BASE COAT FOR AN UNLIMITED PALLET OF LOOKS AND FINISHES. DRY TIME WILL VARY ON ABSORPTION, POROSITY, TEMPERATURE AND AIR MOVEMENT BUT IN GENERAL MOST APPLICATIONS DRY IN 1 TO 3 MINUTES. FOR POLISHING PURPOSES YOU SHOULD WAIT AT LEAST 20 MIN FOR DRY TIME. ONCE DRY YOU CAN CONTINUE TO POLISH TO DESIRED FINISH. IF NO MORE GRINDING/POLISHING IS DESIRED SIMPLY BUFF OFF ANY EXCESS DYES WITH A DAMP CLOTH OR WHITE PAD ON A BUFFER BEFORE FINISHING WITH A PROPER SEALER.

SEALING:

IT IS RECOMMENDED THAT ALL DYED SURFACES RECEIVE SOME SORT OF SEALED PROTECTION TO MAINTAIN THE COLOR AND FINISH. TRU TINT DYES ARE COMPATIBLE WITH ALL TYPES OF SEALERS. SUGGESTIONS ARE TRU IMPRESSIONS STAMPHEEN SOLVENT OR WATER BASE ACRYLICS, OR HEAVIER COATINGS SUCH AS EPOXY HP, POLYCOAT POLYSASPARTIC COATING, OR ACRITHANE 250. FOR THE MOST NATURAL FINISH USE THE APPLICATION OF TI NATURE LOOK WILL BE APPROPRIATE.

CLEAN-UP AND REMOVAL

SPRAYERS AND TOOLS SHOULD BE THROUGHLY CLEANED WITH SOAP AND WATER BEFORE THE DYE DRIES. ACETONE MAY BE USED TO HELP BREAK DOWN THE DYE IF IT IS LEFT TO DRY.

PRECAUTIONS AND LIMITATIONS

ALL NEW CONCRETE SHOULD BE CURED FOR AT LEAST 28 DAYS PRIOR TO APPLICATION.
DYES ARE INTENDED TO BE USED INDOORS ONLY AS ORGANIC DYES ARE SUBJECT TO FADE AND UV DEGRADATION IN DIRECT SUNLIGHT.
DYES SHOULD BE TESTED ON FINAL SURFACE TO DETERMINE COLOR RESULTS.
IF APPLYING OVER AN EXISTING COLORED SURFACE, PROPER ADHESION AND COMPATIBILITY TESTS ARE ESSENTIAL. WHEN USING THIS PRODUCT, THE SUBSTRATE PREPARATION, APPLICATION, PERFORMANCE AND ALL OTHER LIABILITIES ARE STRICTLY THE END USERS RESPONSIBILITY. WALTTOOLS AND IT'S AFFILITATES OFFERS NO GUARANTY, WARRANTY OR OTHER CLAIMS TO THE SUCCESS OR RESULTS FROM THE USE OF THIS PRODUCT. WALTTOOLS WARRANTS THE PRODUCT TO BE FREE OF DEFECTS AND WILL REPLACE OR REFUND THE PURCHASE PRICE OF THE PRODUCT IN THE CASE THAT SAID PRODUCTS ARE PROVEN DEFECTIVE. ANY CONSEQUENTIAL DAMAGES INCLUDING ANY LABOR COSTS ARE NOT COVERED BY THIS WARRANTY AND ARE THEREFORE NOT RECOVERABLE FROM THE MANUFACTURER OR ASSOCIATED RESELLER.

PRODUCT DESCRIPTION

TRU TINT HD IS AN ULTRA PENETRATING, WATER DILUTABLE, CONCRETE DYE TO BE USED ON TEXTURED, TROWELED OR POLISHED CONCRETE. TRU TINT HD MATCHES THE PERFORMANCE OF TRADITIONAL SOLVENT BASED DYE SYSTEMS WHILE AVOIDING THE DANGERS OF DEALING WITH HIGHLY FLAMMABLE SOLVENTS. WHEN DRY, TRU TINT DYE PROVIDES THE SAME LONG TERM BEAUTY AS TRADITIONAL DYE.

FEATURES AND BENEFITS

EASY TO APPLY WITH AN INEXPENSIVE SPRAYER OR HAND APPLICATOR.
EXCELLENT LONG TERM WEAR CAPABILITIES
DEEP, VIBRANT COLORS.
ENVIRONMENTALLY FRIENDLY
WATER CLEAN UP
LOW VOC
CONCENTRATE FOR LOW SHIP COST.

TYPICAL APPLICATIONS

TRU TINT CONCRETE DYE IS IDEAL FOR USE ON INDOOR CONCRETE THAT IS SUBJECT TO HIGH TRAFFIC EXPOSURE SUCH AS POLISHED FLOORS, COUNTERTOPS, INTERIOR OVERLAYS AND MICRO TOPPINGS. CAN ALSO BE USED TO MODIFY PREVIOUSLY COLORED OR STAINED SURFACES. THE SIMPLE COLOR PALLET ALLOWS FOR CUSTOM BLENDING AS DESIRED.
NOTE: DYES ARE SEMI-TRANSPARENT AND WILL NOT COVER OR HIDE IMPERFECTIONS IN THE FLOOR OR SURFACE BEING COLORED.

TECHNICAL INFORMATION

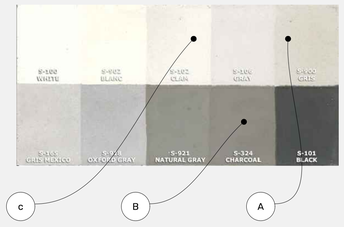
DYES CONSIST OF EXTREMELY SMALL MOLECULES OF COLOR THAT ARE DISPERSED IN A SPECIALLY FORMULATED LIQUID CONCENTRATE THAT IS FURTHER DILUTED FOR APPLICATION BY THE USER WITH WATER. THE DYES PENETRATE DEEPLY INTO THE CONCRETE.

VOC: <20 G/L
FLASH POINT: 150°

COVERAGE

- APPLICATION SURFACE
  PREPPED CONCRETE
- FIRST COAT
  400-600 SQ FT
- SECOND COAT(OPTION)
  SAME

*COVERAGE RATES VARY DEPENDING UPON SURFACE POROSITY AND TEXTURE, AND APPLICATION THICKNESS. **PLEASE REFER TO APPLICATION INSTRUCTIONS FOR PROPER APPLICATION OF SECOND COAT.



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SURFACE PREPARATION: ALL FURNITURE, WALLS, OR OTHER ITEMS/AREAS YOU DO NOT WANT DYED SHOULD BE MASKED OFF PROPERLY USING PROPER TAPE AND PLASTIC. SURFACES TO BE DYED SHOULD BE FREE OF DUST, RESIDUE, AND OIL. SURFACES SHOULD BE DRY. FOR A POLISHED SURFACE SUCH AS A FLOOR OR COUNTERTOP, INITIAL GRINDING SHOULD BE COMPLETE UP TO THE 400 GRIT STAGE. BE SURE TO REMOVE ALL DUST AND GRIND RESIDUE BEFORE PROCEEDING TO THE DYE STAGE. OVERLAYMENT SURFACES OR MICROTOPPINGS MAY BE OPTIONALLY SANDED LIGHTLY TO ENSURE ADEQUATE ABSORPTION PROPERTIES. HARD BURNISHED FLOORS MAY REQUIRE AN LIGHT ETCHING TREATMENT PRIOR TO APPLICATION OF DYE FOR BETTER ABSORPTION.
PRODUCT MIXING: POUR A FULL BOTTLE OF CONCENTRATE INTO A ONE GALLON CONTAINER OR PROPERLY SIZED SPRAYER BODY. ADD WATER TO THE ONE GALLON MEASUREMENT. NO MIXING IS REQUIRED. IF USING LESSER AMOUNTS THAN ONE GALLON, THE END USER MUST CALCULATE THE PROPER WATER AD- DITION BASED ON THE AMOUNT OF CONCENTRATE USED. WATER IS TO BE ADDED AT A RATE OF 8 PARTS WATER TO 1 PART DYE. TIGHTLY CLOSE ANY UN- USED PORTION OF THE DYE AND STORE IN CLEAN DRY AREA.
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CONCRETE DYE METHOD: COLORS & SPECS

SCALE: N.A.S.

1 CONCRETE DYE & STAMPING DETAILS

SCALE: N.T.S

PROPOSED PATTERN FINISH FLOOR

SCALE: N.T.S

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED, AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY ENDRANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

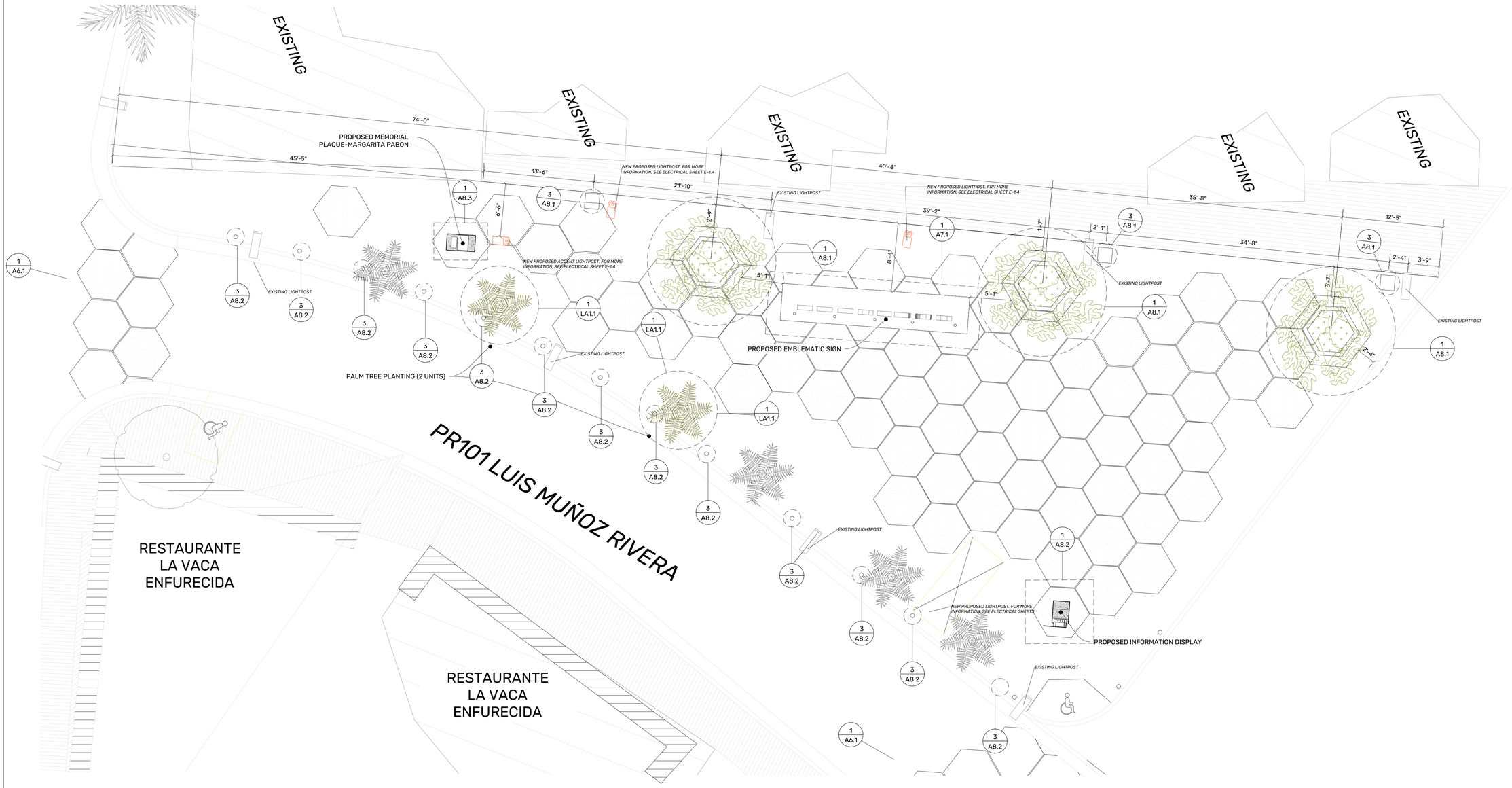
TITLE

PROPOSED PATTERN FINISH FLOOR

DRAWING No.

A6.2

P R O P O S E D U R B A N E Q U I P M E N T T O P U B L I C S Q U A R E _ B L O W U P



1 IMPROVEMENTS TO PUBLIC SQUARE FLOOR

SCALE: NOT TO SCALE

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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INGENIUM PROFESSIONAL GROUP

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

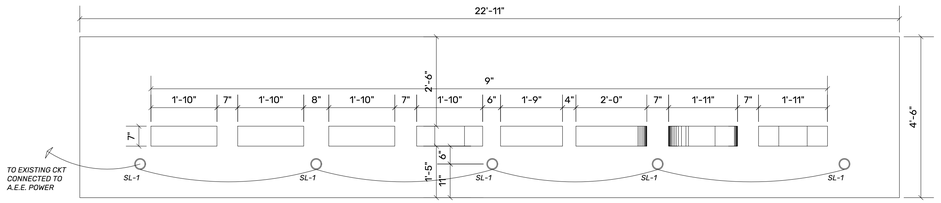
TITLE

PROPOSED URBAN EQUIPMENT TO PUBLIC SQUARE_BLOW UP

DRAWING No.

A7.0

P R O P O S E D D E S I G N O F E M B L E M A T I C S I G N I N P U B L I C S Q U A R E

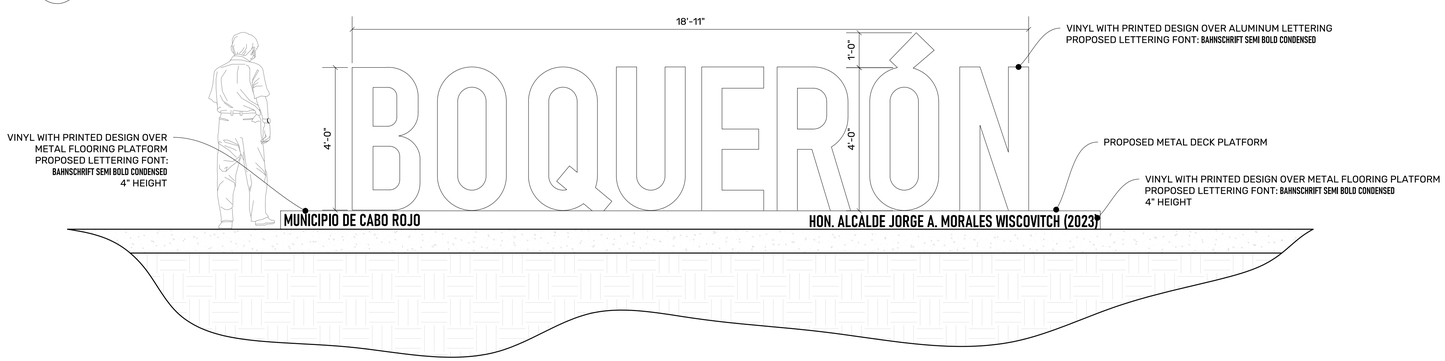


LIGHTING SCHEDULE

ITEM #	*SYMBOL*	*DESCRIPTION*
1	*SL-1*	*SPOT LIGHT*

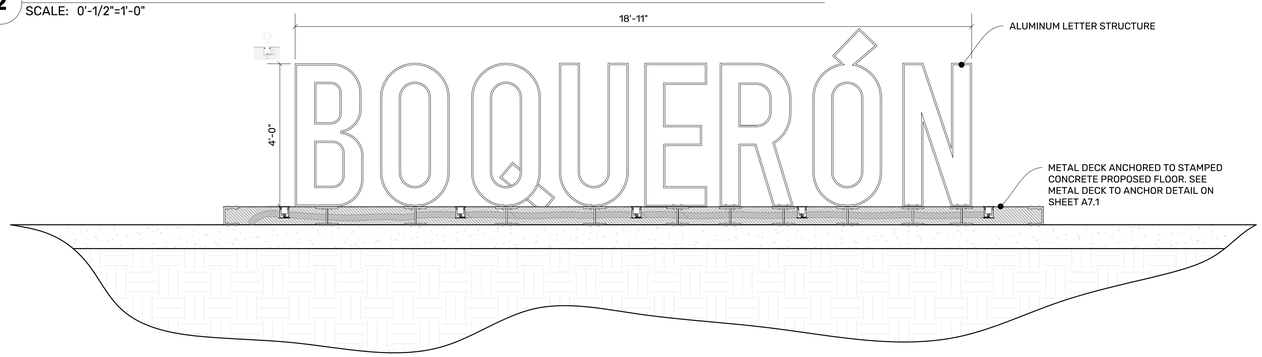
1 EMBLEMATIC SIGN ON MARGARITA PABON SQUARE TOP VIEW

SCALE: 0'-1/2"=1'-0"



2 EMBLEMATIC SIGN ON MARGARITA PABON SQUARE ELEVATION

SCALE: 0'-1/2"=1'-0"



3 EMBLEMATIC SIGN ON MARGARITA PABON SQUARE SECTION

SCALE: 0'-1/2"=1'-0"



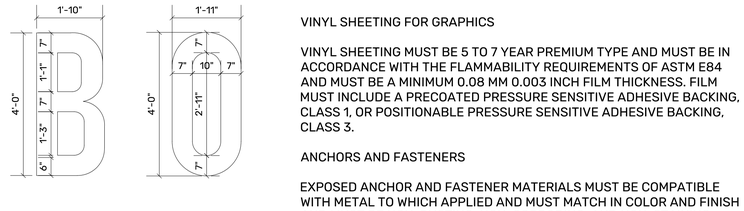
EMBLEMATIC LETTERS NIGHT VIEW

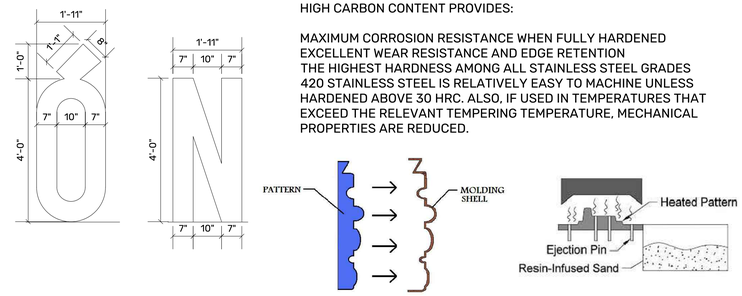
SCALE: NTS



EMBLEMATIC LETTERS DAY VIEW

SCALE: NTS





VINYL SHEETING FOR GRAPHICS

VINYL SHEETING MUST BE 5 TO 7 YEAR PREMIUM TYPE AND MUST BE IN ACCORDANCE WITH THE FLAMMABILITY REQUIREMENTS OF ASTM E84 AND MUST BE A MINIMUM 0.08 MM 0.003 INCH FILM THICKNESS. FILM MUST INCLUDE A PRECOATED PRESSURE SENSITIVE ADHESIVE BACKING, CLASS 1, OR POSITIONABLE PRESSURE SENSITIVE ADHESIVE BACKING, CLASS 3.

ANCHORS AND FASTENERS

EXPOSED ANCHOR AND FASTENER MATERIALS MUST BE COMPATIBLE WITH METAL TO WHICH APPLIED AND MUST MATCH IN COLOR AND FINISH AND MUST BE NON-RUSTING, NON-CORRODING, AND NON-STAINING. EXPOSED FASTENERS MUST BE TAMPER-PROOF.

ANCHORAGE

ANCHORAGE AND FASTENER MATERIALS MUST BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S INSTRUCTIONS FOR THE INDICATED SUBSTRATE. ANCHORAGE NOT OTHERWISE SPECIFIED OR INDICATED MUST INCLUDE SLOTTED INSERTS, EXPANSION SHIELDS, AND POWDER-DRIVEN FASTENERS WHEN APPROVED FOR CONCRETE; TOGGLE BOLTS AND THROUGH BOLTS FOR MASONRY; MACHINE CARRIAGE BOLTS FOR STEEL; LAG BOLTS AND SCREWS FOR WOOD.

PROTECTION AND CLEANING

THE WORK MUST BE PROTECTED AGAINST DAMAGE DURING CONSTRUCTION. HARDWARE AND ELECTRICAL EQUIPMENT MUST BE ADJUSTED FOR PROPER OPERATION. GLASS, FRAMES, AND OTHER SIGN SURFACES MUST BE CLEANED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. AFTER SIGNS ARE COMPLETED AND INSPECTED, COVER ALL PROJECT IDENTIFICATION, DIRECTIONAL, AND OTHER SIGNS WHICH MAY MISLEAD THE PUBLIC. COVERING MUST BE MAINTAINED UNTIL INSTRUCTED TO BE REMOVED BY THE CONTRACTING OFFICER OR UNTIL THE FACILITY IS TO BE OPENED FOR BUSINESS. SUBMIT [SIX] [_____] COPIES OF MAINTENANCE INSTRUCTIONS LISTING ROUTINE MAINTENANCE PROCEDURES, POSSIBLE BREAKDOWNS AND REPAIRS, AND TROUBLESHOOTING GUIDES. THE INSTRUCTIONS MUST INCLUDE SIMPLIFIED DIAGRAMS FOR THE EQUIPMENT AS INSTALLED. SIGNS MUST BE CLEANED, AS REQUIRED, AT TIME OF COVER REMOVAL.

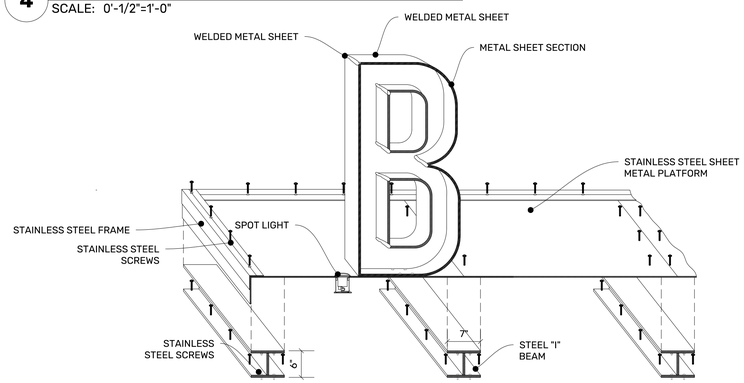
420 STAINLESS STEEL

CONTAINING 13% CHROMIUM, 420 STAINLESS STEEL IS A HIGH-QUALITY TOOL STEEL THAT'S PREFERRED FOR CUSTOM INJECTION MOLDING. THE HIGH CARBON CONTENT PROVIDES:

MAXIMUM CORROSION RESISTANCE WHEN FULLY HARDENED
EXCELLENT WEAR RESISTANCE AND EDGE RETENTION
THE HIGHEST HARDNESS AMONG ALL STAINLESS STEEL GRADES
420 STAINLESS STEEL IS RELATIVELY EASY TO MACHINE UNLESS HARDENED ABOVE 30 HRC. ALSO, IF USED IN TEMPERATURES THAT EXCEED THE RELEVANT TEMPERING TEMPERATURE, MECHANICAL PROPERTIES ARE REDUCED.

4 EMBLEMATIC LETTERS DETAILS

SCALE: 0'-1/2"=1'-0"



5 EMBLEMATIC LETTERS STRUCTURAL ACHORING DETAILS

SCALE: 0'-1/2"=1'-0"

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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Tel. (787) 918-5890 / 5891
Email: info@ingenium.group

SIGNATURE
William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

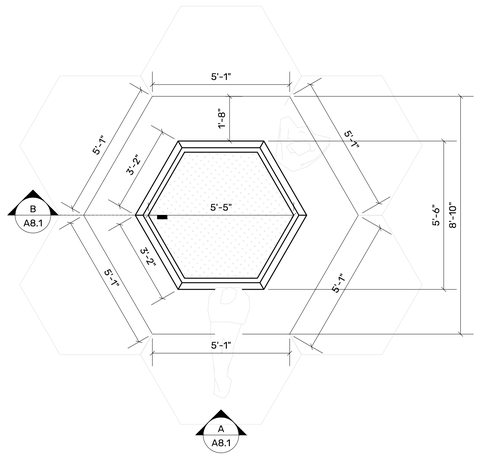
FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
PROPOSED DESIGN OF EMBLEMATIC SIGN IN PUBLIC SQUARE

DRAWING No.
A7.1

PAGE: 38/67

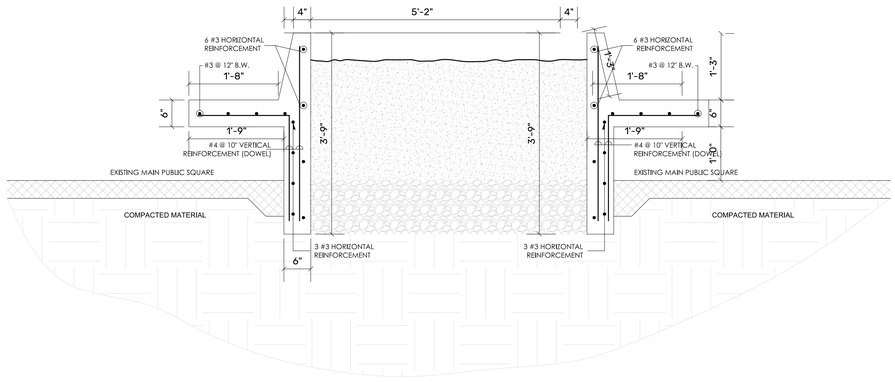
P R O P O S E D D E T A I L S O F U R B A N E Q U I P M E N T



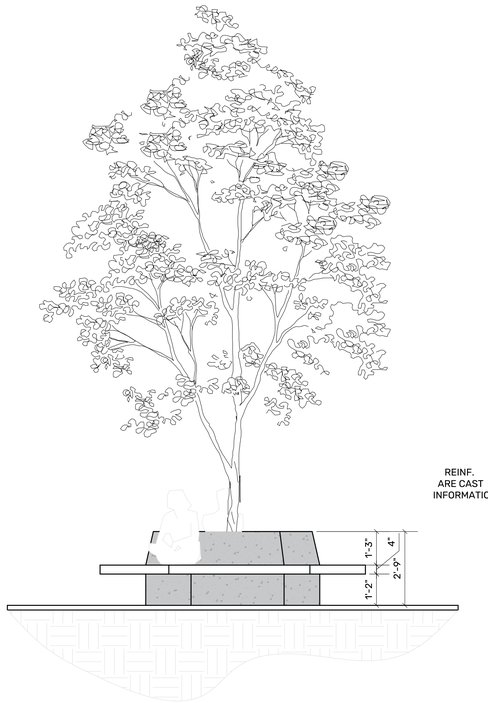
1 PROPOSED BENCH TOP VIEW
SCALE: 3/8" = 1' - 0"



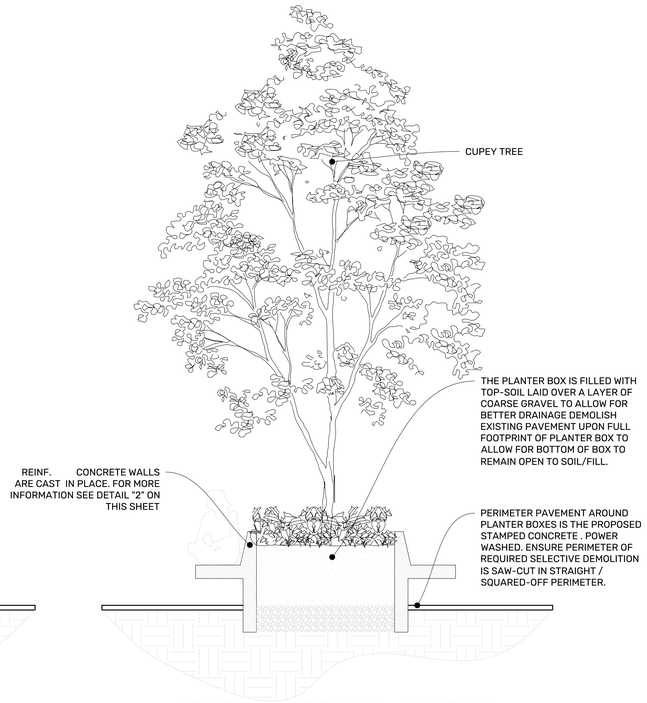
PROPOSED BENCH 3D VIEW
SCALE: NOT TO SCALE



2 STRUCTURAL DETAIL_BENCH
SCALE: 3/4" = 1' - 0"



A PROPOSED BENCH _ELEVATION
SCALE: 3/8" = 1' - 0"



B PROPOSED BENCH _SECTION
SCALE: 3/8" = 1' - 0"

SPECIFICATION FOR CONCRETE REINFORCED BENCH

1. **DESCRIPTION:** THIS ITEM SHALL GOVERN THE PROVISION OF SUPPLY, ERECTING AND INSTALLATION OF PRECAST CONCRETE REINFORCED BENCHES WITH BACK REST.
2. **GENERAL REQUIREMENT:** THE PRECAST CONCRETE REINFORCED BENCHES SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DESIGN REQUIREMENTS AND DETAILS SHOWN IN THE PLAN, AND IN CONFORMITY WITH THE REQUIREMENTS OF THIS SPECIFICATION AND ITEM NO. 172020 OF USSOR.
3. **MATERIALS AND CONSTRUCTION METHODS :** THE MATERIAL AND CONSTRUCTION OF PRECAST CONCRETE REINFORCED BENCHES WILL BE AS FOLLOWS:

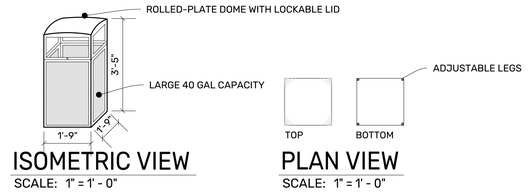
i. **CONCRETE MIX DESIGN:** THE BENCHES SHALL BE CAST USING M-30 GRADE CONCRETE MIX IN ACCORDANCE WITH IS:10269: 2009 (WITH LATEST AMENDMENT) IN GRAY CEMENT BY USING VIBRO - COMPACTION TECHNIQUE AND WITH REINFORCEMENT AS DETAILED IN THIS SPECIFICATION. THE MANUFACTURER SHALL BE RESPONSIBLE TO DESIGN A MIX WHICH ACHIEVES BOTH THE STRENGTH AND THE SURFACE FINISH REQUIRED FAR THE INSTALLATION AND APPÑCAÑONCOMPRESSIVE STRENGTH SHALL BE NOT LESS THAN 30 MPA AT 28 DAYS.

ii. **REINFORCEMENT STEEL:** TMT REINFORCEMENT BARS CONFIRMING TO IS: 1786:2008 OF DIA 1 0 MM SHALL BE USED AS MAIN REINFORCEMENT BAR AND 4MM DIA MILD STEEL BARS SHALL BE USED AS STIRRUPS AS PER REINFORCEMENT DIAGRAM.

iii. **CONNECTIONS :** 12MM DIA X 65MM LONG GALVANIZED STEEL CSK (COUNTERSUNK) BOLTS WITH EVA (ETHYLENE VINYL ACETATE) WASHER FOR CONNECTING SEATING PLANK WITH LEG AND HALF THREADED CARRIAGE BOLTS & NUTS WITH EVA & STEEL WASHERS OF SIZE 165MM LENGTH X 8MM DIA FOR CONNECTING BACK REST PLANK WITH LEG. THREADED STEEL FASTENER SHALL CONFIRM TO IS: 1367 WITH LATEST AMENDMENTS.

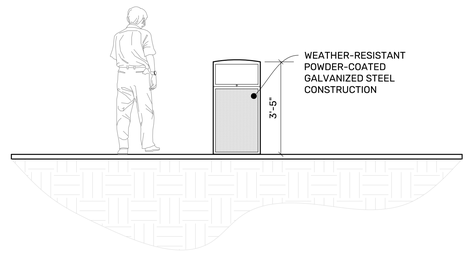
iv. **PAINT:** RED COLOR ACRYLIC BASED PAINT (OTHER COLOR MAY BE USED, IF DECIDED BY ENGINEER-IN-CHRAGE) CONFIRMING TO IS:15489 SHOULD BE USED.

PROPOSED DETAILS OF URBAN EQUIPMENT
SCALE: 3/4" = 1' - 0"



ISOMETRIC VIEW
SCALE: 1" = 1' - 0"

PLAN VIEW
SCALE: 1" = 1' - 0"



3 PROPOSED TRASH CAN & SPECIFICATIONS
SCALE: 1" = 1' - 0"

Specifications

Dimensions: H 42 in, W 22 in, D 22 in

Dimensions	
Product Depth (in.)	22 in
Product Width (in.)	22 in

Details	
Bucket/Tub Material	Plastic
Color	Silver/Black
Indoor/Outdoor	Outdoor
Location	Commercial
Pack Size	1
Shape	Square
Trash and Recycling Product Type	Trash Can
Product Height (in.)	42 in
Capacity	40 GA-Gallon
Color Family	Silver
Lid/Top Mechanism	Hinged
Material	Stainless Steel
Returnable	90-Day
Trash and Recycling Features	Decorative, Lockable, Removable Liner

PROJECT ADDRESS
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PROPOSED DETAILS OF URBAN EQUIPMENT

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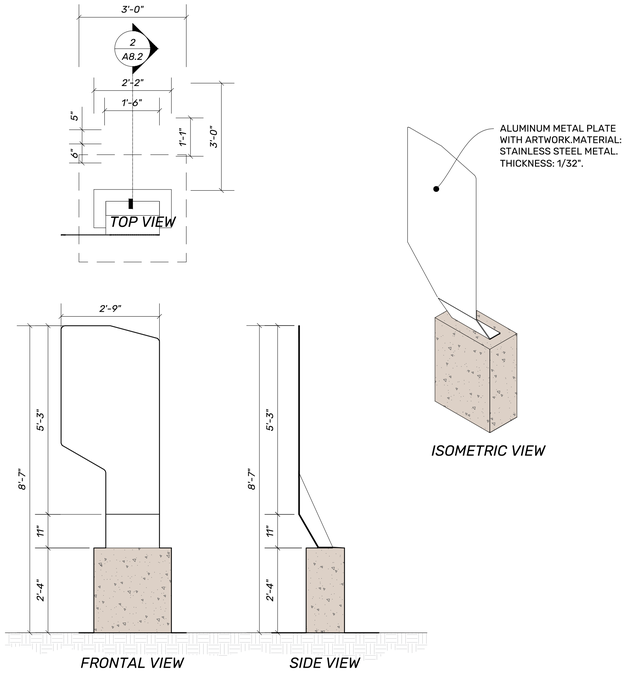
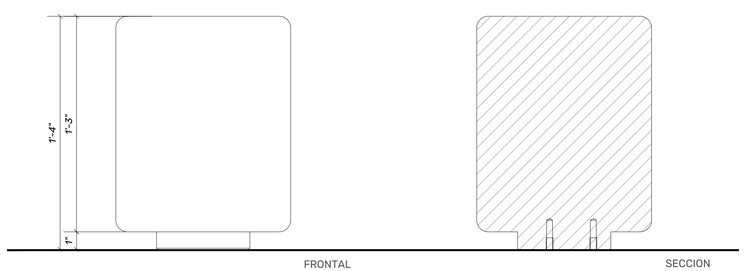
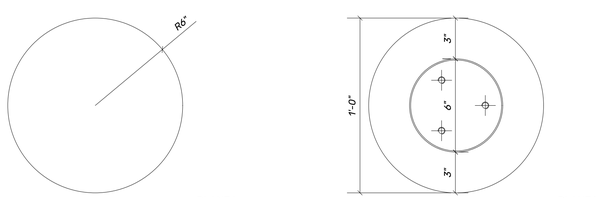


1 PROPOSED INFORMATION DISPLAY: GEOMETRY

SCALE: 1/2" = 1' - 0"

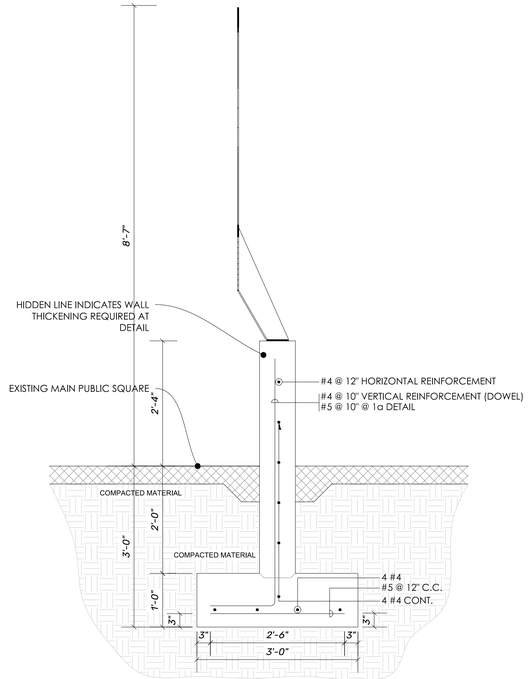
GEOMETRY





2 STRUCTURAL DETAIL

SCALE: N. A. S.



3 PROPOSED CONCRETE BOLLARD

SCALE: N. A. S.

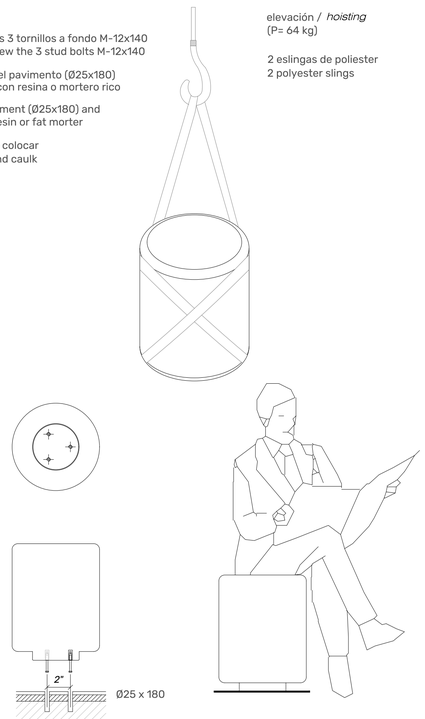
- Roscar los 3 tornillos a fondo M-12x140
- Tightly srew the 3 stud bolts M-12x140

- Taladrar el pavimento (Ø25x180) y llenar con resina o mortero rico
- Drill pavement (Ø25x180) and fill with resin or fat morter

- Centrar y colocar
- Centre and caulk

elevación / *hoisting*
(P= 64 kg)

2 eslingas de poliester
2 polyester slings



INSTALLATION SYSTEM

INFORMATION DISPLAY: RENDER

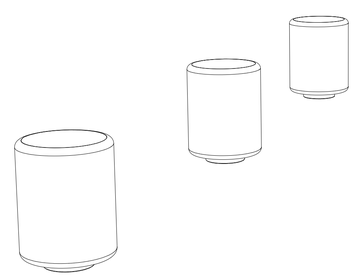
SCALE: N. A. S.



CARACTERISTICAS

MATERIAL	hormigón	MATERIAL	*cast stone*
COLOR	gris / beige / negro	COLOUR	grey / beige / black
ACABADO	decapado e hidrofugado	FINISH	acid-etched and waterproofed
COLOCACION	anclado con tornillos	FIXING	anchored with screws
PESO	64 kg	WEIGHT	64 kg

DISEÑO / DESIGN SCOB, Oscar Blasco + Sergi Carulla



ESCALA 0 CM — 25 CM

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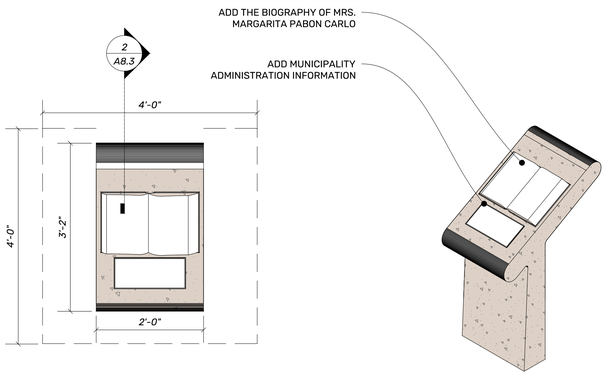


1 MEMORIAL PLAQUE GEOMETRY

SCALE: 3/4" = 1' - 0"

MEMORIAL PLAQUE: MARGARITA PABON CARLO'S BIOGRAPHY

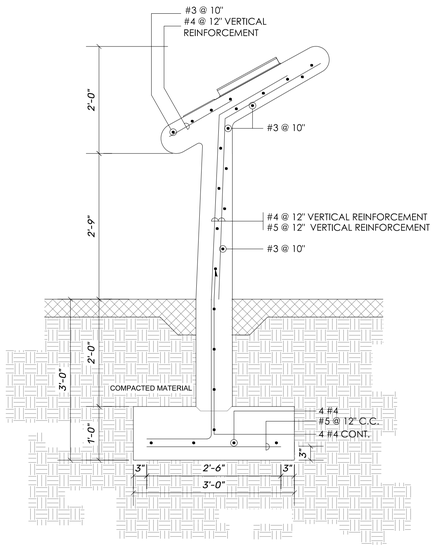
Margarita Pabón Carlo nació el 30 de marzo de 1892 en Cabo Rojo, Puerto Rico. Hija de Don Evaristo Pabón Rivera y Doña Juana Montalvo. Se casó con Don Faustino Acosta Montalvo el 19 de mayo de 1909. Tuvo doce (12) hijos.

Residente de Boquerón, ejerció como partera en la cual ayudó a traer al mundo gran cantidad de caborrojeños para la década del 40 y del 50. Se estima que el 70% de los "pichicheros" de Boquerón, vieron la luz gracias a Doña Margo, la partera.

Siempre presta a ayudar en los momentos en que una madre rompía fuente y le llegaba el momento del alumbramiento.

Mujer de carácter férreo logró el aprecio y respecto de todos. Fue homenajeada en la década de los 70 en la Placita Pirata Roberto Cofresí en Boquerón. Falleció el 31 de marzo de 1977, a los 85 años. Sus restos yacen en el Cementerio Santiago Apóstol de Boquerón.

Important Note: Biographical information must fit the dimensions of the plaque (book type) so that it is readable and include Township information on the bottom plaque. Contractor must submit shop drawing to designer and owner for final approval.



2 STRUCTURAL DETAIL

SCALE: 3/4" = 1'-0"

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF ANY DISCREPANCIES, ERRORS OR OMISSIONS SHOULD BE ENCOUNTERED ON PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE ANY PART OF THE WORK IS STARTED SO THAT PROPER CORRECTIONS ARE MADE. IF ENGINEER IS NOT NOTIFIED PRIOR TO COMMENCING OF THE WORK, ALL DESIGNS AND DRAWINGS HEREIN AND PRINTS ISSUED BY THE ENGINEER ARE THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED ON ANY OTHER LOCATION EXCEPT THE ONE FOR WHICH THEY EXPRESSLY DESIGNED. IF THESE DRAWINGS OR ANY PART THEREOF IS REPRODUCED WITHOUT THE CONSENT OF THE ENGINEER, THE PERSON WHO IS DOING WILL BE INDEBTED TO THE ENGINEER FOR HIS FULL COMMISSION. CONTRACTOR SHALL NOT USE FOR CONSTRUCTION PURPOSES ANY DRAWINGS THAT WERE ADVANCE TO HIM PRIOR TO THE BEGINNING OF CONSTRUCTION. ALL PLANS BEING USED BY CONTRACTOR SHOULD HAVE A LABEL SAYING "FOR CONSTRUCTION ONLY" SIGNED AND SEALED BY THE ENGINEER.

CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00738
Tel: (787) 918-5890 / 5891
Email: info@ingenium.group

SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

PROPOSED DETAILS OF URBAN EQUIPMENT

DRAWING No.

A8.3

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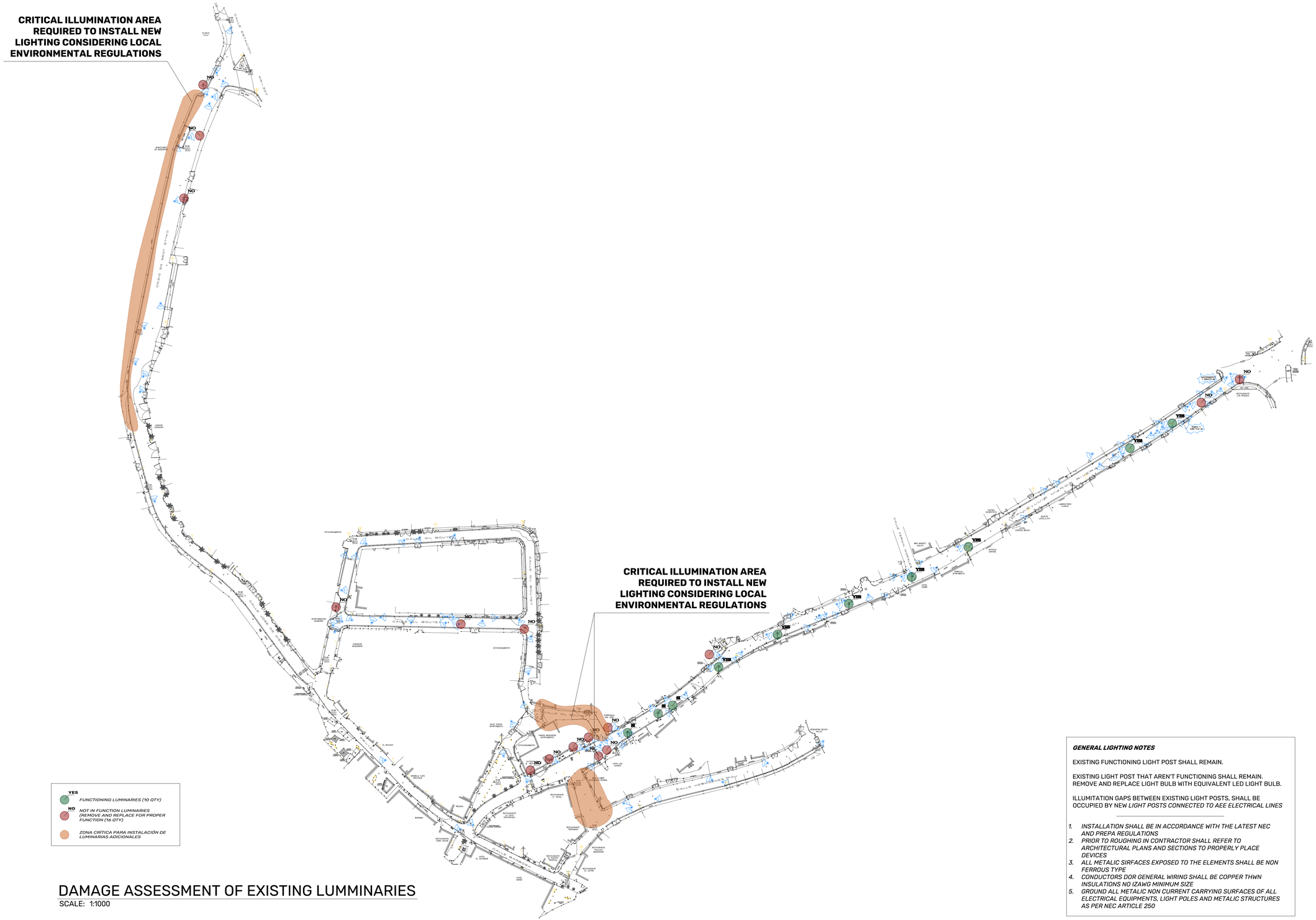
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CALLE ANTONIO LUCHETTI
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PLAZA DE LA ESTACION
PR-101
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E X I S T I N G L U M I N A R I E S P H O T O D O C U M E N T A T I O N



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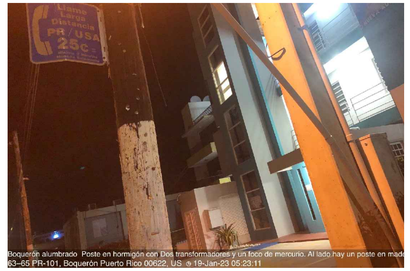
2 | FOR MORE LOCATION DETAILS SEE DA-4.1



3 | FOR MORE LOCATION DETAILS SEE DA-4.1



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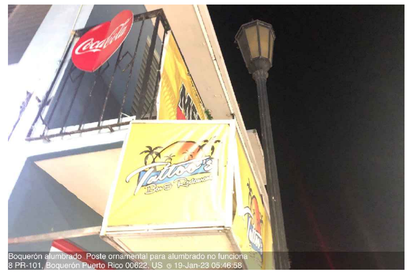
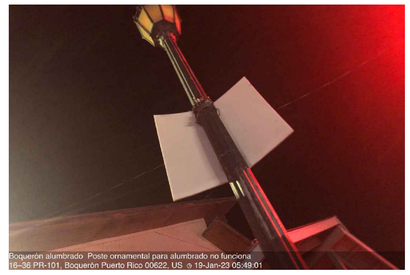


19 | FOR MORE LOCATION DETAILS SEE DA-4.1



20 | FOR MORE LOCATION DETAILS SEE DA-4.1

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
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REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION
I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

IPG INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00738
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SIGNATURE
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
EXISTING LUMINARIES PHOTO DOCUMENTATION

DRAWING No.
E-0.2

GENERAL NOTES

1. ALL THE INSTALLATION SHALL BE MADE ACCORDING TO THE APPLICABLE CONSTRUCTION STANDARDS OF P.R.E.P.A.
2. ALL WORK ON EXISTING LINES SHALL BE DONE BY P.R.E.P.A. AT OWNER'S EXPENSE.
3. PROVIDE ELECTRICAL 6" WIDE YELLOW WARNING RIBBON FOR UNDERGROUND CLABLES, INSTALL OVER ALL UNDERGROUND CABLES AND DUCTS AL 12" DEEP, TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOUS BLACK LETTER 1-1/4"x5/8" WITH THE WORDS "PELIGRO-PELIGRO-PELIGRO" ETC. ON THE TOP AND "LINEAS ELECTRICAS DEBAJO" ON BOTTOM.
4. UNDER PAVED AREAS, SIDEWALKS AND WHERE ELECTRIC CONDUITS CROSSES GAS, SEWAGE AND OTHER UTILITY FACILITIES, THE CONDUITS SHALL BE ENCASED IN 3" CONCRETE ENVELOPE.
5. GROUND SYSTEM FOR LIGHTING POLES AND TRANSFORMERS UNIT SHALL HAVE MAXIMUM RESISTANCE OF TEN (10) OHMS. CONTRACTOR SHALL VERIFY THIS CONDITION IN THE FIELD.
6. STRANDED COPPER CABLE WITH THE INDICATED INSULATION IN THE LEGEND SHALL BE USED.
7. CABLE WILL RUN BETWEEN TERMINAL POINTS WITHOUT SPLICES.
8. ENDORSEMENT BY P.R.E.P.A. DOES NOT INCLUDES STRUCTURAL AND FOUNDATION DETAILS.
9. CONTRACTOR SHALL NOTIFY P.R.E.P.A. PREVIOUS TO THE BEGINNING OF ELECTRICAL WORK FOR PROPER INSPECCTION, APPROVAL AND COORDINATION.
10. CONTRACTOR SHALL LEAVE IN PERFECT WORKING CONDITIONS THE ELECTRICAL SYSTEM, AND IS RESPONSIBLE FOR ANY DEFECTS FOUND WHEN THE SERVICE IS CONNECTED.
11. ALL ELEVATIONS ARE REFERRED TO MEAN SEA LEVEL AND GIVEN IN METERS.
12. ELECTRICAL, EQUIP, MATERIALS & CONSTRUCTION SHALL CONFORM TO ANSI, NEMA, N.E.C, & P.R.E.P.A. STOS.
13. ALL CONSTRUCCTION WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT, IN WHICH CASE, LOCAL REGULATIONS SHALL COVERN.
14. ALL EXISTING SERVICE WHICH IS INTERRUPTED DUE TO RELOCATION OR REMOVAL OF LINES WILL BE REESTABLICHED AT CONTRACTOR'S EXPENSE.
15. P.R.E.P.A. WILL NOT ASSUME THE MANTENANCE OF LUMINAIRES LOCATED ON METERED CIRCUITS.
16. THE APPROVAL OF THESE DRAWINGS IS ON CONDITION THAT THE LOCAL MUNICIPAL AUTHORITY ACCEPTS (BEFORE CONSTRUCTION START) TO PAY THE P.R.E.P.A. FOR THE MAINTENANCE AND CONSUMPTION RATE OF THE NON-METERED LUMINAIRES.
17. P.R.E.P.A. WILL NOT BE LIABLE FOR ANY CHANGE DURING CONSTRUCCTION DUE TO FIELD CONDITIONS.
18. THE CONTRACTOR IS RESPONSIBLE TO VERIFY PRIOR THE INSTALLATION OF THE ELECTRICAL UNDERGROUND CONDUITS ANY INTERFERENCES WITH THE EXISTING UTILITIE (TELEPHONE, WATER, ETC.) BURIED IN THE AREA.
19. EXISTING CIRCUITS (SERIES OR MULTIPLE) FOR LUMINAIRES TO REMAIN SHALL BE LEFT IN GOOD WORKIND CONDITIONS. MODIFICATIONS TO COMPLY WITH THIS DIRECTIVE SHALL BE COORDINATED DURING PROJECT CONSTRUCTION WITH P.R.E.P.A. INSPECTION PERSONNEL.
20. ALL METALLIC POLES, LUMINAIRES, JUNCTIONS BOXES AND METALLIC ENCLOSURES CHALL BE GROUNDED.
21. ANY RELOCATION SHALL BE EQUAL OR BETTER THAN THE EXISTING ONE AND IN ACCORD WITH THE LATEST APPLICABLE STANDARDS.
22. UNLESS OTHERWISE INDICATED ALL LIGHTING STANDARDS INCLUDES CONNECTION TO ONE PULL BOX AS A SUBSIDIARY OBLICATION.

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PROJECT
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REGISTER No.
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Email: info@ingenium.group

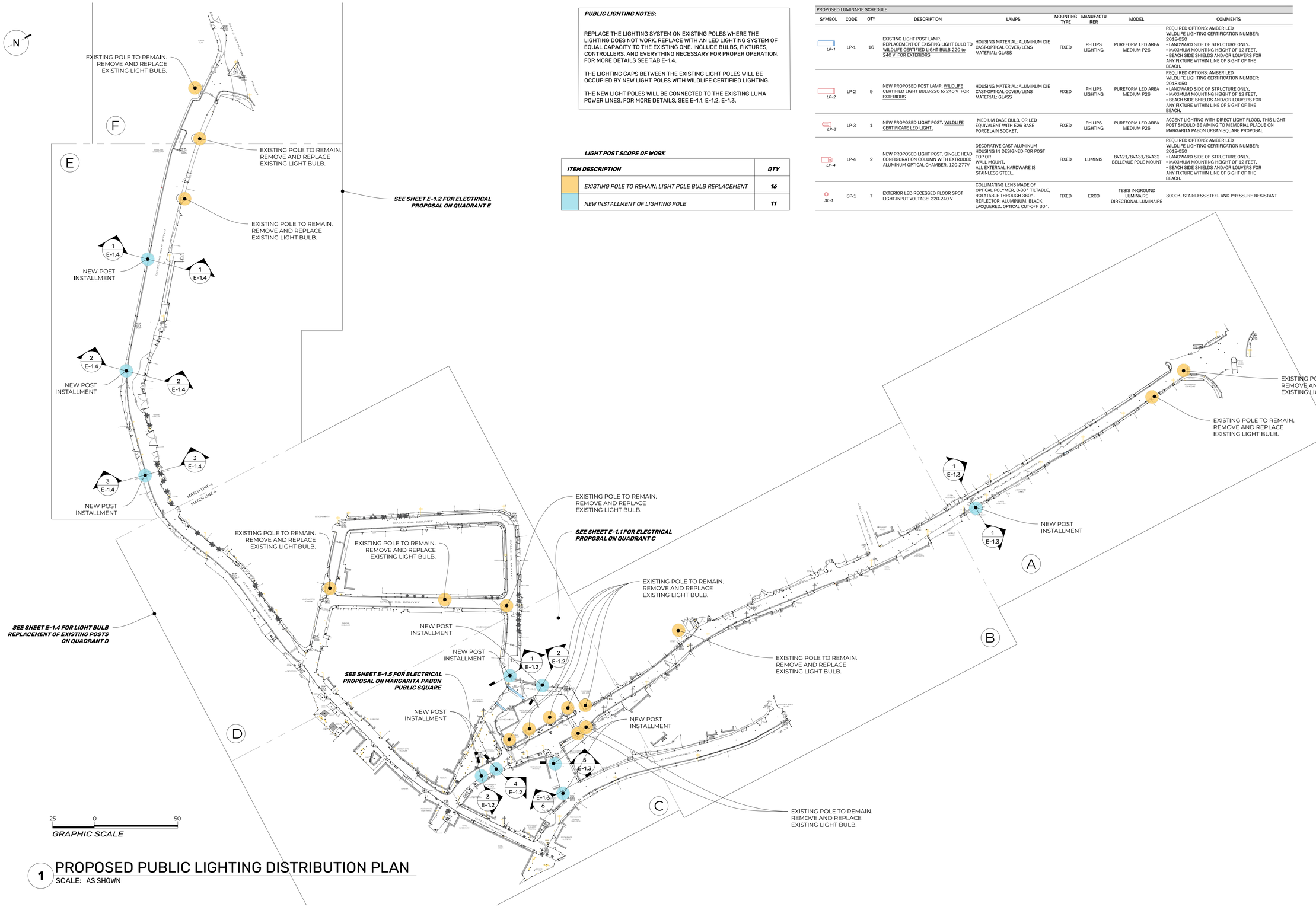
SIGNATURE
William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
STANDARD LEGEND, NOTES & DESIGN CRITERIA

DRAWING No.
E1.0

P R O P O S E D P U B L I C L I G H T I N G D I S T R I B U T I O N



1 PROPOSED PUBLIC LIGHTING DISTRIBUTION PLAN
SCALE: AS SHOWN

PUBLIC LIGHTING NOTES:

REPLACE THE LIGHTING SYSTEM ON EXISTING POLES WHERE THE LIGHTING DOES NOT WORK. REPLACE WITH AN LED LIGHTING SYSTEM OF EQUAL CAPACITY TO THE EXISTING ONE. INCLUDE BULBS, FIXTURES, CONTROLLERS, AND EVERYTHING NECESSARY FOR PROPER OPERATION. FOR MORE DETAILS SEE TAB E-1.4.

THE LIGHTING GAPS BETWEEN THE EXISTING LIGHT POLES WILL BE OCCUPIED BY NEW LIGHT POLES WITH WILDLIFE CERTIFIED LIGHTING.

THE NEW LIGHT POLES WILL BE CONNECTED TO THE EXISTING LUMA POWER LINES. FOR MORE DETAILS, SEE E-1.1, E-1.2, E-1.3.

LIGHT POST SCOPE OF WORK

ITEM DESCRIPTION	*QTY*
EXISTING POLE TO REMAIN: LIGHT POLE BULB REPLACEMENT	***16***
NEW INSTALLMENT OF LIGHTING POLE	***11***

PROPOSED LUMINARIE SCHEDULE

SYMBOL	CODE	QTY	DESCRIPTION	LAMPS	MOUNTING TYPE	MANUFACTURER	MODEL	COMMENTS
LP-1	LP-1	16	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY. • MAXIMUM MOUNTING HEIGHT OF 12 FEET. • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
LP-2	LP-2	9	NEW PROPOSED POST LAMP. WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY. • MAXIMUM MOUNTING HEIGHT OF 12 FEET. • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
LP-3	LP-3	1	NEW PROPOSED LIGHT POST. WILDLIFE CERTIFICATE LED LIGHT.	MEDIUM BASE BULB, OR LED EQUIVALENT WITH E26 BASE PORCELAIN SOCKET.	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	ACCENT LIGHTING WITH DIRECT LIGHT FLOOD. THIS LIGHT POST SHOULD BE AIMING TO MEMORIAL PLAQUE ON MARGARITA PABON URBAN SQUARE PROPOSAL
LP-4	LP-4	2	NEW PROPOSED LIGHT POST. SINGLE HEAD CONFIGURATION COLUMN WITH EXTRUDED ALUMINUM OPTICAL CHAMBER. 120-277V	DECORATIVE CAST ALUMINUM HOUSING IN DESIGNED FOR POST TOP OR WALL MOUNT. ALL EXTERNAL HARDWARE IS STAINLESS STEEL.	FIXED	LUMINIS	BVA21/BVA31/BVA32 BELLEVUE POLE MOUNT	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY. • MAXIMUM MOUNTING HEIGHT OF 12 FEET. • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
SL-1	SP-1	7	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 220-240 V	COLLIMATING LENS MADE OF OPTICAL POLYMER, 0-30° TILTABLE, ROTATABLE THROUGH 360°, REFLECTOR: ALUMINUM, BLACK LACQUERED. OPTICAL CUT-OFF 30°.	FIXED	ERCO	TESIS IN-GROUND LUMINAIRE DIRECTIONAL LUMINAIRE	3000K, STAINLESS STEEL AND PRESSURE RESISTANT

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

INGENIUM PROFESSIONAL GROUP
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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED PUBLIC LIGHTING DISTRIBUTION

DRAWING No.

E-1.1

P R O P O S E D P U B L I C L I G H T I N G - Q U A D R A N T C



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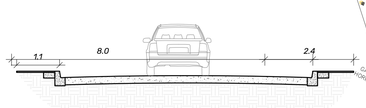

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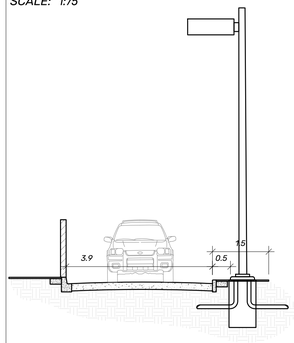

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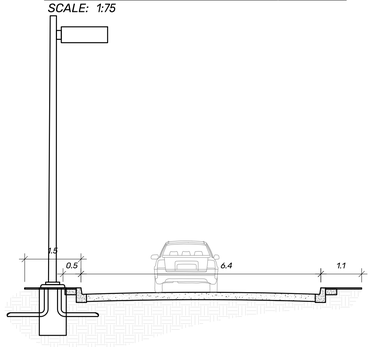

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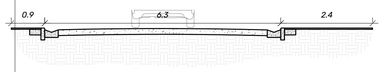

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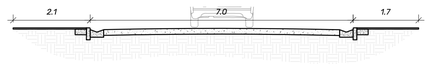

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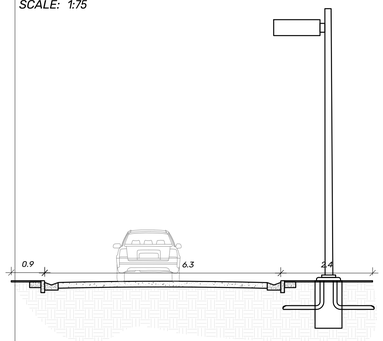

PROPOSED SECTION 3/E-1.2
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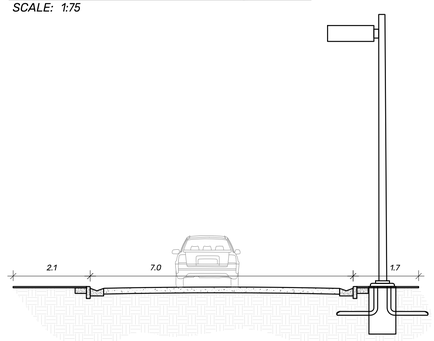

PROPOSED SECTION 4/E-1.2
SCALE: 1:75

LEGEND

SYMBOL	DESCRIPTION
LP-1	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V. FOR EXTERIORS
LP-2	NEW PROPOSED POST LAMP. WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V. FOR EXTERIORS
LP-3	NEW PROPOSED LIGHT POST. WILDLIFE CERTIFICATE LED LIGHT.
LP-4	NEW PROPOSED LIGHT POST. SINGLE HEAD CONFIGURATION COLUMN WITH EXTRUDED ALUMINUM OPTICAL CHAMBER. 120-277V
SL-1	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 220-240 V
	ELECTRICAL CIRCUIT
	AEE WOODEN POST
	PRTC WOODEN POST
	AEE CONCRETE POST

ELECTRICAL NOTES

ELECTRICAL HAZARD

ELECTRICAL HAZARDS CAN BE FOUND IN NEARLY EVERY ROOFING WORK SITE. WHETHER THE HAZARD IS POSED BY WORN OR DAMAGED POWER TOOLS OR CORDS, IMPROPERLY GROUNDED TOOLS OR EQUIPMENT, OR THE PRESENCE OF STANDING WATER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE THE TOOLS AND EQUIPMENT EMPLOYEES USE ARE IN SAFE WORKING ORDER AND SAFEGUARDS ARE IN PLACE TO PROTECT EMPLOYEES FROM ELECTRICAL ENERGY SOURCES.

GENERAL

EACH CIRCUIT ENCOUNTERED WILL BE CONSIDERED LIVE UNTIL PROVEN OTHERWISE.

ONLY PROPER TOOLS WILL BE USED TO TEST CIRCUITS.

NO WIRE WILL BE TOUCHED UNTIL THE CIRCUIT IS DETERMINED TO BE DEAD.

PROCEDURE

ALL EXTENSION CORDS USED ON PROJECTS MUST BE THREE-PRONGED AND CARRY ONE OF THE DESIGNATIONS REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE NATIONAL ELECTRIC CODE (NEC). EACH EXTENSION CORD, POWER TOOL AND RECEPTACLE, AS DEFINED EARLIER, SHALL BE TESTED FOR GROUNDING CONTINUITY.

ANY CORD, RECEPTACLE OR TOOL THAT HAS NOT PASSED THE CONTINUITY TEST SHALL BE TAGGED AND MAY NOT BE USED UNTIL IT IS REPAIRED AND RETESTED.

THIS PROGRAM WILL BE IMPLEMENTED AND MONITORED BY THE SAFETY DIRECTOR, SERVING AS THE COMPETENT PERSON. A "COMPETENT PERSON" IS ONE WHO CAN IDENTIFY EXISTING AND POTENTIAL HAZARDS IN A JOB SITE'S SURROUNDINGS OR WORKING CONDITIONS THAT ARE HAZARDOUS OR DANGEROUS TO EMPLOYEES AND HAS THE AUTHORITY TO TAKE PROMPT CORRECTIVE MEASURES.

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BEFORE THE EQUIPMENT IS USED AFTER ANY INCIDENT THAT CAN REASONABLY BE SUSPECTED TO HAVE CAUSED DAMAGE TO THE TOOL, SUCH AS A VEHICLE RUNNING OVER THE CORD

AT INTERVALS NOT TO EXCEED THREE MONTHS FOR TOOLS AND CORDS AND SIX MONTHS FOR RECEPTACLES

FOR ADDITIONAL INFORMATION ON SECURITY HAZARD OF ELECTRICAL RELATED WORKS, SEE OSHA ELECTRICAL SECURITY GUIDE.

FOR MORE TECHNICAL ELECTRICAL INFORMATION, REFER TO SHEET E-1.4

MATCH LINE-3

MATCH LINE-3



MATCH LINE-2

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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Progress Print:

TITLE

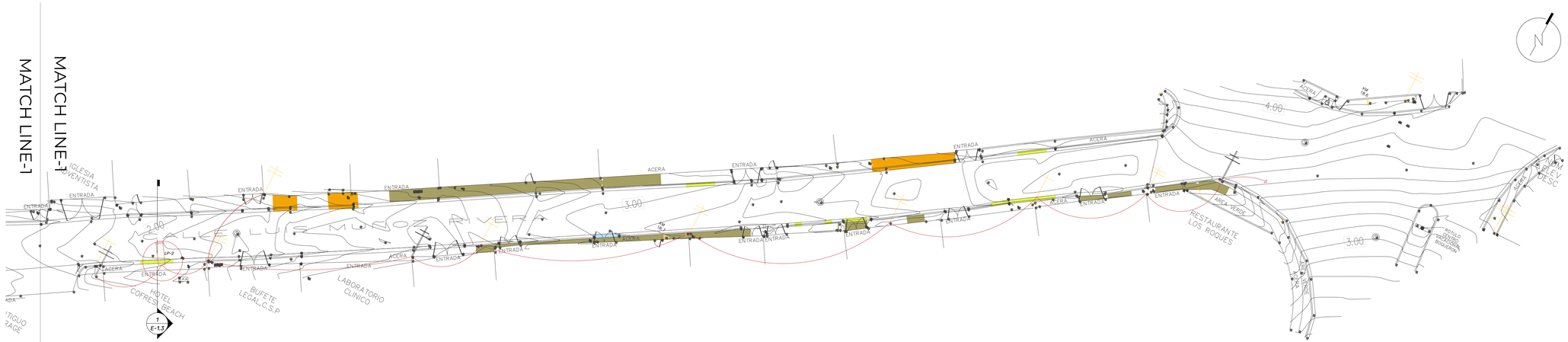
PROPOSED PUBLIC LIGHTING-QUADRANT C

DRAWING No.

E-1.2

PROPOSED PUBLIC LIGHTING_QUADRANT C
SCALE: 1:300

P R O P O S E D P U B L I C L I G H T I N G - Q U A D R A N T A & C



PROPOSED PUBLIC LIGHTING_QUADRANT A

SCALE: 1:300

LEGEND

SYMBOL	DESCRIPTION
LP-1	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS
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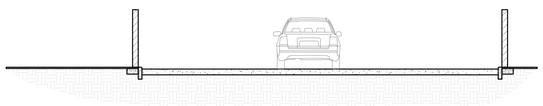

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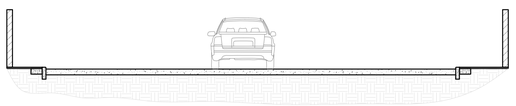

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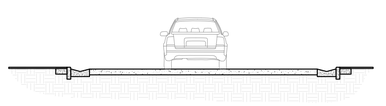

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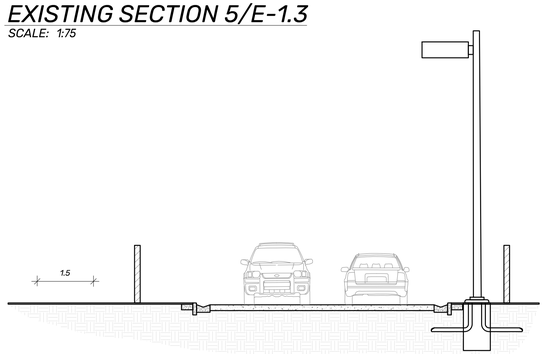

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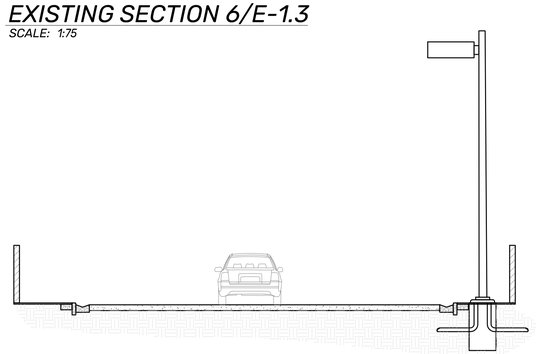

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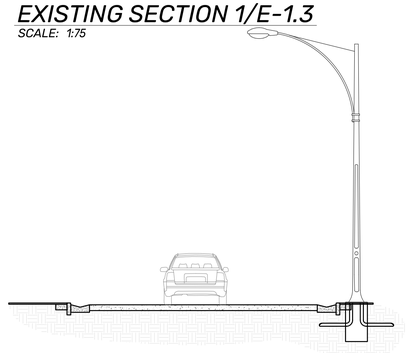

PROPOSED SECTION 1/E-1.3

SCALE: 1:75

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PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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INGENIUM PROFESSIONAL GROUP

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

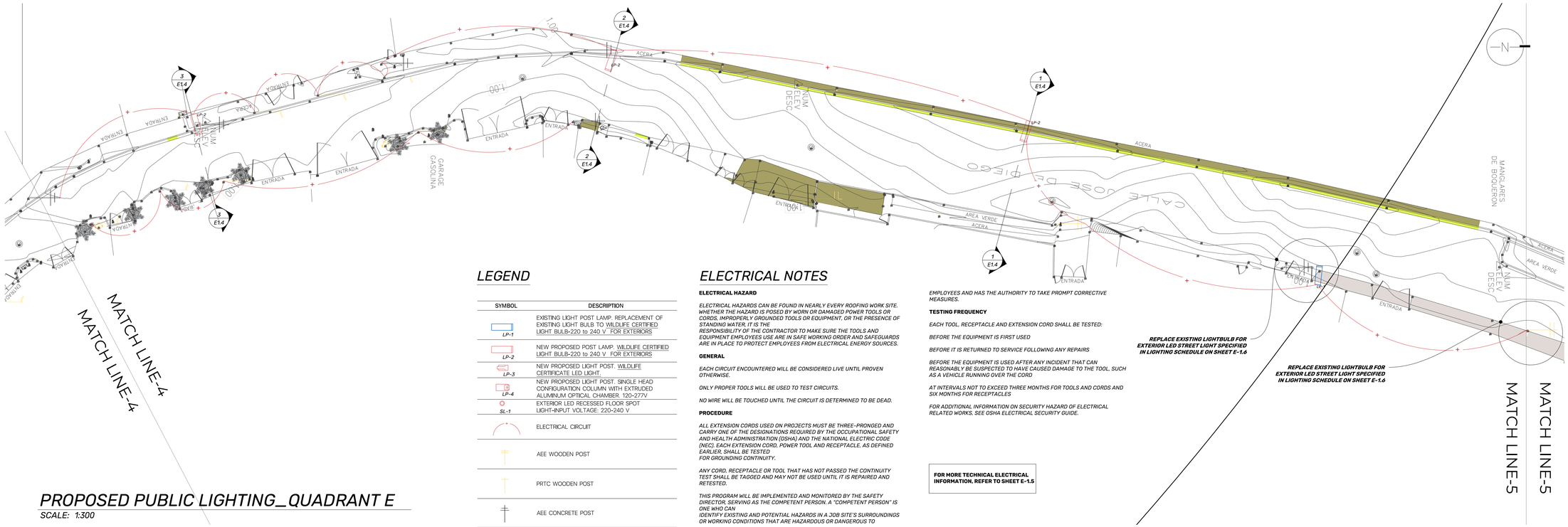
TITLE

PROPOSED PUBLIC LIGHTING-QUADRANT A & C

DRAWING No.

E1.3

P R O P O S E D P U B L I C L I G H T I N G - Q U A D R A N T E



PROPOSED PUBLIC LIGHTING_QUADRANT E
SCALE: 1:300

LEGEND

SYMBOL	DESCRIPTION
LP-1	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS
LP-2	NEW PROPOSED POST LAMP. WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS
LP-3	NEW PROPOSED LIGHT POST. WILDLIFE CERTIFICATE LED LIGHT.
LP-4	NEW PROPOSED LIGHT POST. SINGLE HEAD CONFIGURATION COLUMN WITH EXTRUDED ALUMINUM OPTICAL CHAMBER. 120-277V.
SL-1	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 220-240 V
	ELECTRICAL CIRCUIT
	AEE WOODEN POST
	PRTC WOODEN POST
	AEE CONCRETE POST

ELECTRICAL NOTES

ELECTRICAL HAZARD

ELECTRICAL HAZARDS CAN BE FOUND IN NEARLY EVERY ROOFING WORK SITE. WHETHER THE HAZARD IS POSED BY WORN OR DAMAGED POWER TOOLS OR CORDS, IMPROPERLY GROUNDED TOOLS OR EQUIPMENT, OR THE PRESENCE OF STANDING WATER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE THE TOOLS AND EQUIPMENT EMPLOYEES USE ARE IN SAFE WORKING ORDER AND SAFEGUARDS ARE IN PLACE TO PROTECT EMPLOYEES FROM ELECTRICAL ENERGY SOURCES.

GENERAL

EACH CIRCUIT ENCOUNTERED WILL BE CONSIDERED LIVE UNTIL PROVEN OTHERWISE.

ONLY PROPER TOOLS WILL BE USED TO TEST CIRCUITS.

NO WIRE WILL BE TOUCHED UNTIL THE CIRCUIT IS DETERMINED TO BE DEAD.

PROCEDURE

ALL EXTENSION CORDS USED ON PROJECTS MUST BE THREE-PRONGED AND CARRY ONE OF THE DESIGNATIONS REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE NATIONAL ELECTRIC CODE (NEC). EACH EXTENSION CORD, POWER TOOL AND RECEPTACLE, AS DEFINED EARLIER, SHALL BE TESTED FOR GROUNDING CONTINUITY.

ANY CORD, RECEPTACLE OR TOOL THAT HAS NOT PASSED THE CONTINUITY TEST SHALL BE TAGGED AND MAY NOT BE USED UNTIL IT IS REPAIRED AND RETESTED.

THIS PROGRAM WILL BE IMPLEMENTED AND MONITORED BY THE SAFETY DIRECTOR, SERVING AS THE COMPETENT PERSON. A "COMPETENT PERSON" IS ONE WHO CAN IDENTIFY EXISTING AND POTENTIAL HAZARDS IN A JOB SITE'S SURROUNDINGS OR WORKING CONDITIONS THAT ARE HAZARDOUS OR DANGEROUS TO EMPLOYEES AND HAS THE AUTHORITY TO TAKE PROMPT CORRECTIVE MEASURES.

TESTING FREQUENCY

EACH TOOL, RECEPTACLE AND EXTENSION CORD SHALL BE TESTED:

BEFORE THE EQUIPMENT IS FIRST USED

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BEFORE THE EQUIPMENT IS USED AFTER ANY INCIDENT THAT CAN REASONABLY BE SUSPECTED TO HAVE CAUSED DAMAGE TO THE TOOL, SUCH AS A VEHICLE RUNNING OVER THE CORD

AT INTERVALS NOT TO EXCEED THREE MONTHS FOR TOOLS AND CORDS AND SIX MONTHS FOR RECEPTACLES

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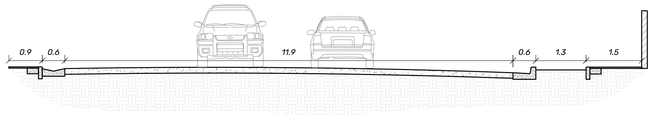
FOR MORE TECHNICAL ELECTRICAL INFORMATION, REFER TO SHEET E-1.5



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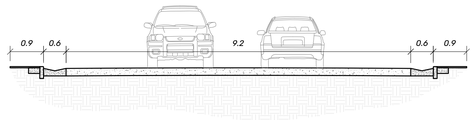

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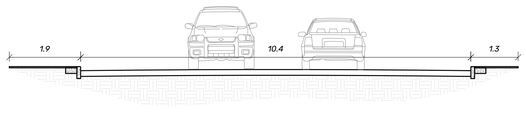

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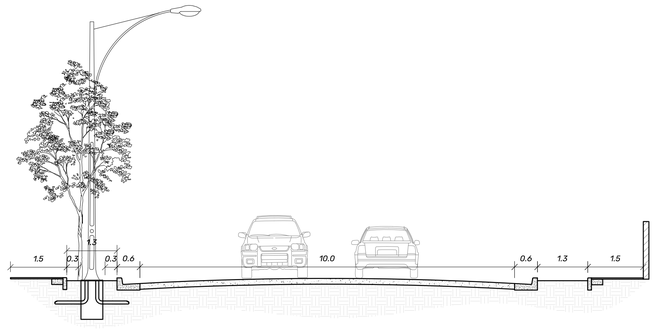

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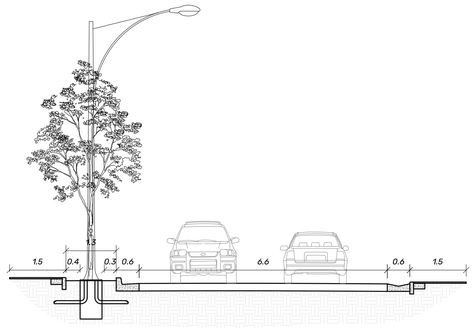

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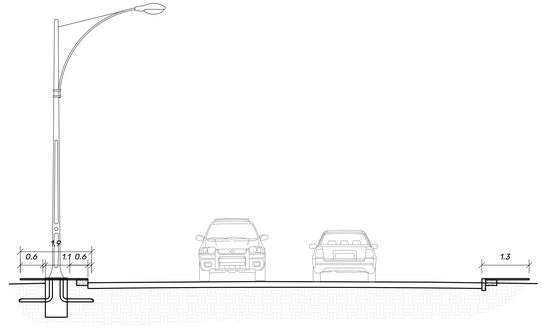

EXISTING SECTION 3/E-1.4
SCALE: 1:75

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
--	--	--	--	--

IMPORTANT NOTES TO THE CONTRACTOR:

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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

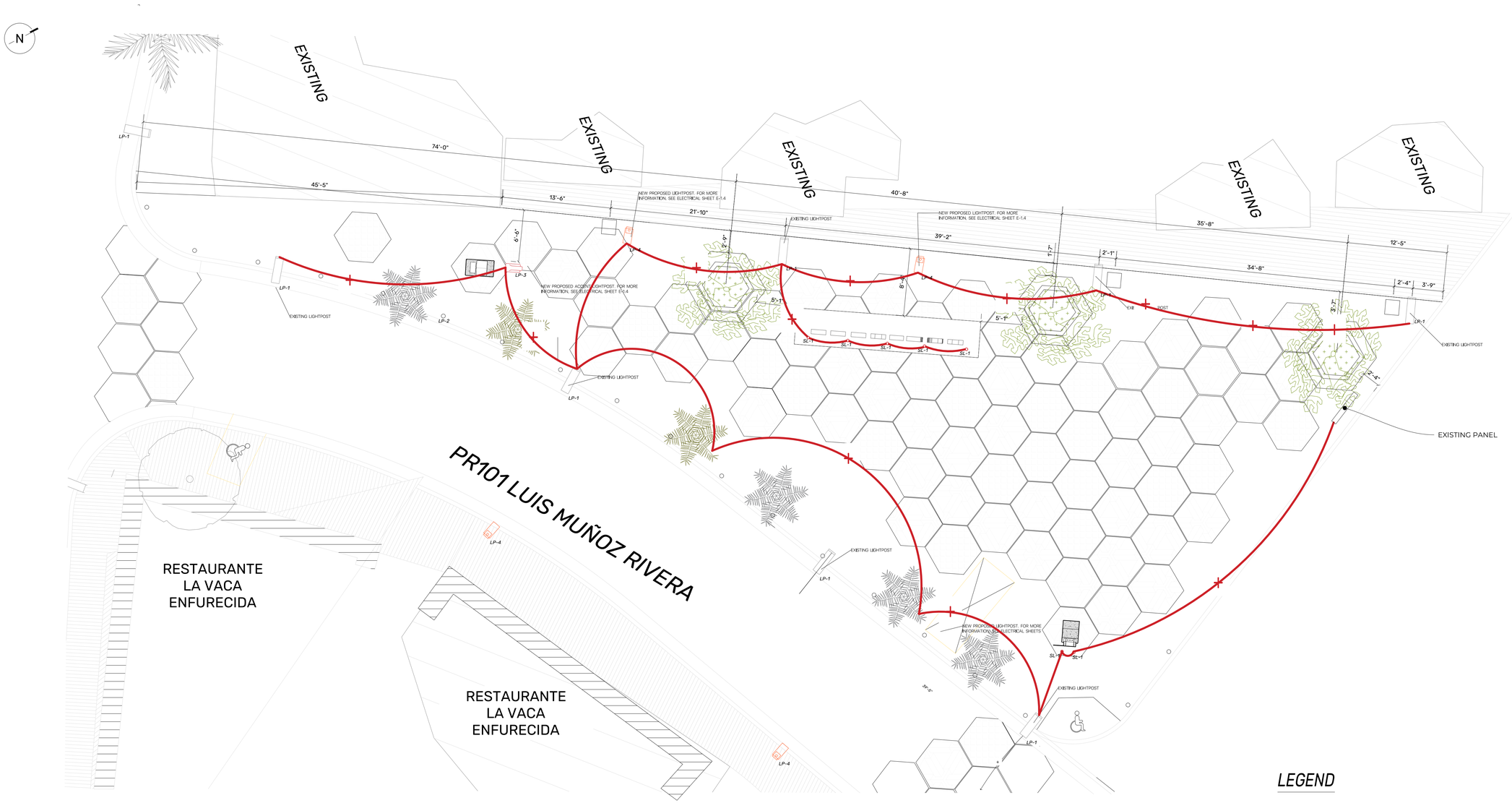
TITLE

PROPOSED PUBLIC LIGHTING- QUADRANT E

DRAWING No.

E-1.4

PROPOSED SQUARE PUBLIC LIGHTING DISTRIBUTION PLAN



1 PROPOSED ELECTRICAL DISTRIBUTION PLAN

SCALE: NTS

ELECTRICAL NOTES

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LEGEND

SYMBOL	DESCRIPTION
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SL-1	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 220-240 V
	ELECTRICAL CIRCUIT
	AEE WOODEN POST
	PRTC WOODEN POST
	AEE CONCRETE POST

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PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

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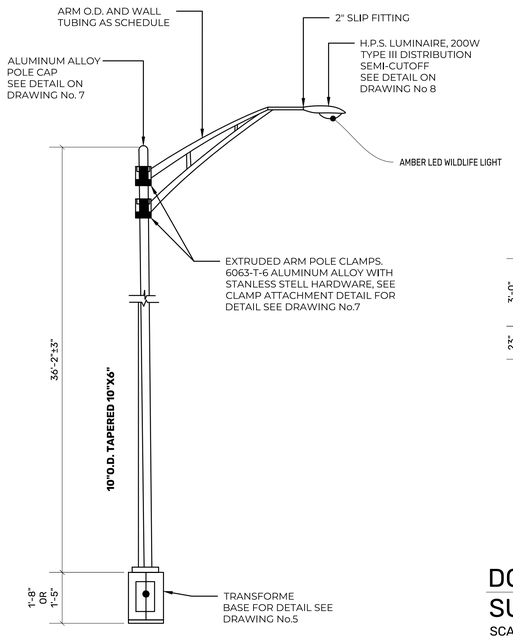
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

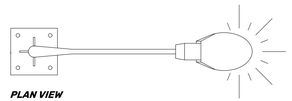
PROPOSED SQUARE PUBLIC LIGHTING DISTRIBUTION PLAN

DRAWING No.

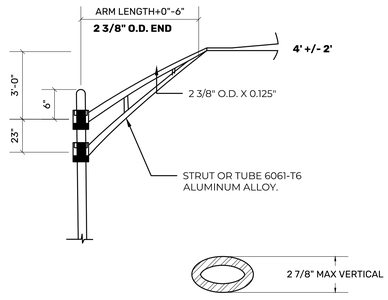
E-1.5



ELEVATION VIEW



PLAN VIEW



TOP MEMBER SECTION A-A

DOUBLE MEMBER LUMINAIRE SUPPORT ARM DETAIL

SCALE: NOT TO SCALE

LP-2 ALUMINUM LIGHTING POLE. (12' & 15') ARM

SCALE: NOT TO SCALE

SHAFT DIMENSIONS SHEDULE			
BRACKET+ARMS		**MINIMUM SHAFT WALL THICKNESS**	
SINGLE	DOUBLE	ALLOY 6063-T-6	ALLOY 6005-T-5
4' OR 8'		10' X 6" X 0.156	10' X 6" X 0.156
	4' OR 8'	10' X 6" X 0.219	10' X 6" X 0.156
12'		10' X 6" X 0.188	10' X 6" X 0.156
15'		10' X 6" X 0.188	10' X 6" X 0.156
	12'	10' X 6" X 0.250	10' X 6" X 0.170
	15'	10' X 6" X 0.312	10' X 6" X 0.188

SHAFT DIMENSIONS ARE GIVEN IN INCHES UNLESS INDICATED OTHERWISE, AND ARRANGED BOTTOM DIAMETER X TOP DIAMETER X WALL THICKNESS.

ARM OVERALL DIAMETER AND WALL THICKNESS SCHEDULE			
LENGTH	**MEMBER**	6063-TUBING	6061-PIPE
4' OR 8'	SINGLE MEMBER	(3 1/2" TO 2 3/8") X 0.125	
12'	UPPER LOWER	3,5" X 0.125 1,5" X 0.145	3,5" X 0.203 2,0" X 0.218
15'	UPPER LOWER	4,0" X 0.125 1.5" X 0.145	3,5" X 0.203 2,5" X 0.203

DIMENSIONS ARE ARRANGED IN NOMINAL DIAMETER X WALL THICKNESS

SHAFT SPECIFICATIONS

POLE SHAFT SHALL HAYE STRUCTURAL CAPABILITIES EQUAL TO OR EXCEEDING THOSE REQUIRED BY AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LIGHTING, AND TRAFFIC SIGNALS. THIS INCLUDES WIND LOAD OF 80 MILES PER HOUR WITH A GUST SPEED FACTOR OF 1.3. ICE LOAD NEED NOT BE INCLUDED.

POLE SHAFT SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063 HAVING T-6 TEMPER AFTER FABRICATION OR ALLOY 6005 HAVING T-5 TEMPERAFTER FABRICATION.

POLE SHAFT CHALL BE ANNULAR POLISHED WITH NO LESS THAN 36 GRITS.

TOLERANCES ARE AS SHOWN ON THE DRAWING OR IN ACCORDANCE WITH ALUMINUM ASSOCIATION REQUIREMENTS AS APPROPRIATE.

WELDING OF ALUMINUM STRUCTURAL SHALL BE IN ACCORDANCE WITH SECTION 1.5.3 OF AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFIC SIGNALS.

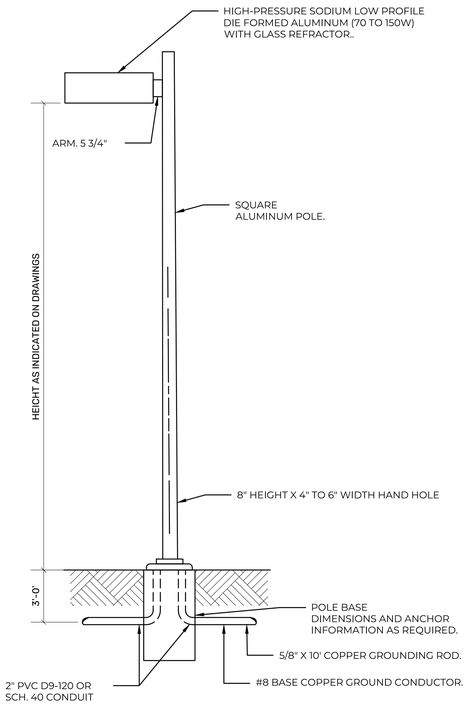
POLES FABRICATED FROM ALLOY 6005 WITH WELDS IN STRESSED AREAS, SHALL BE REINFORCED IN THE AREAS OF THE WELD TO GIVE EQUIVALENT STRENGTH OF UNWELDED SHAFT SECTION.

GROUND NUT SHALL BE LOCATED ON.
1- SHAFT, OPPOSITE TO HAND HOLE
2- TRANSFORME BASE OPPOSITE TO DOOR OPERING.

STANDARD LOCATION OF HAND HOLE SHALL BE 90° FROM LUMINAIRE SUPPORT ARM AXIS OR 0' WHEN INSTALLED IN CONCRETE BARRIERS.

PROPOSED LUMINARIE SCHEDULE

SYMBOL	CODE	QTY	DESCRIPTION	LAMPS	MOUNTING TYPE	MANUFACTURER	MODEL	COMMENTS
LP-1	LP-1	16	EXISTING LIGHT POST LAMP. REPLACEMENT OF EXISTING LIGHT BULB TO WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY, • MAXIMUM MOUNTING HEIGHT OF 12 FEET, • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
LP-2	LP-2	9	NEW PROPOSED POST LAMP, WILDLIFE CERTIFIED LIGHT BULB-220 to 240 V FOR EXTERIORS	HOUSING MATERIAL: ALUMINUM DIE CAST-OPTICAL COVER/LENS MATERIAL: GLASS	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY, • MAXIMUM MOUNTING HEIGHT OF 12 FEET, • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
LP-3	LP-3	1	NEW PROPOSED LIGHT POST. WILDLIFE CERTIFICATE LED LIGHT.	MEDIUM BASE BULB, OR LED EQUIVALENT WITH E26 BASE PORCELAIN SOCKET.	FIXED	PHILIPS LIGHTING	PUREFORM LED AREA MEDIUM P26	ACCENT LIGHTING WITH DIRECT LIGHT FLOOD, THIS LIGHT POST SHOULD BE AIMING TO MEMORIAL PLAQUE ON MARGARITA PABON URBAN SQUARE PROPOSAL
LP-4	LP-4	2	NEW PROPOSED LIGHT POST, SINGLE HEAD CONFIGURATION COLUMN WITH EXTRUDED ALUMINUM OPTICAL CHAMBER, 120-277V	DECORATIVE CAST ALUMINUM HOUSING IN DESIGNED FOR POST TOP OR WALL MOUNT. ALL EXTERNAL HARDWARE IS STAINLESS STEEL.	FIXED	LUMINIS	BVA21/BVA31/BVA32 BELLEVUE POLE MOUNT	REQUIRED OPTIONS: AMBER LED WILDLIFE LIGHTING CERTIFICATION NUMBER: 2018-050 • LANDWARD SIDE OF STRUCTURE ONLY, • MAXIMUM MOUNTING HEIGHT OF 12 FEET, • BEACH SIDE SHIELDS AND/OR LOUVERS FOR ANY FIXTURE WITHIN LINE OF SIGHT OF THE BEACH.
SL-1	SP-1	7	EXTERIOR LED RECESSED FLOOR SPOT LIGHT-INPUT VOLTAGE: 220-240 V	COLLIMATING LENS MADE OF OPTICAL POLYMER, 0-30° TILTABLE, ROTATABLE THROUGH 360°, REFLECTOR: ALUMINUM, BLACK LACQUERED, OPTICAL CUT-OFF 30°.	FIXED	ERCO	TESIS IN-GROUND LUMINAIRE DIRECTIONAL LUMINAIRE	3000K, STAINLESS STEEL AND PRESSURE RESISTANT



LP-4 SPECIAL LIGHTING STANDARD "D"

SCALE: NOT TO SCALE

NOTES

1- ALL METALLIC PARTS SHALL BE CONNECTED TO THE GROUND CONDUCTOR.

2- CONTRACTOR SHALL SUBMIT MANUFACTURER DRAWINGS FOR APPROVAL BEFORE FURNISHING THE LIGHTING STANDARDS.

3- THE DESIGNER SHALL DETERMINE THE DIMENSIONS AND REINFORCEMENT OF THE BASE.

4- SPECIAL LIGHTING STANDARDS SHALL BE DESIGNED FOR 90 m.p.h WIND LOADS WITH GUST SPEED FACTOR OF 1.3., ICE LOAD NEED NOT BE INCLUDED.

5- POLE BASE, GROUNDING ROD, GROUNDING CONDUCTOR, GROUNDING CONNECTION AND POWER CONNECTION ARE INCLUDED IN THE SPECIAL LIGHTING STANDARD AS A SUBSIDIARY OBLIGATION.

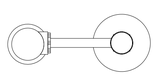
6- THE LIGHTING POLES SHALL BE FED FROM A METERED SOURCE.

THIS STANDARD SHALL PROVIDE ALTERNATIVES FOR MUNICIPALITIES IN USING NON-TYPICAL ROADWAY LIGHTING POLES AND FIXTURES

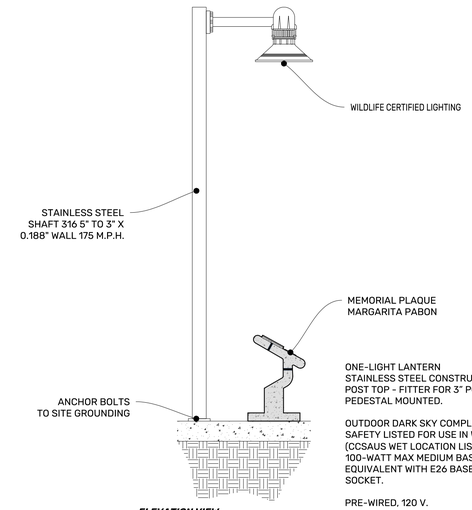
12" TO 10" X 0.88 WALL 175 M.P.H. STAINLESS STEEL CONSTRUCTION POST WITH ANCHORED STREET LAMP.

OUTDOOR DARK SKY COMPLIANT AND UL SAFETY LISTED FOR USE IN WET LOCATIONS (CCSAUS WET LOCATION LISTED)

LED LIGHT BULB
300-700 LUMEN
4000 K COLOR TEMP.
CRI 70
220 TO 240 V
HOUSING MATERIAL: ALUMINUM DIE CAST
REFLECTOR MATERIAL: POLYCARBONATE
OPTIC MATERIAL: POLYMETHYL METHACRYLATE
OPTICAL COVER/LENS MATERIAL: GLASS
FIXATION: MATERIAL ALUMINUM



PLAN VIEW



ELEVATION VIEW

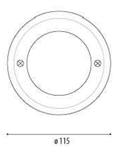
LP-3 ACCENT LIGHT POST

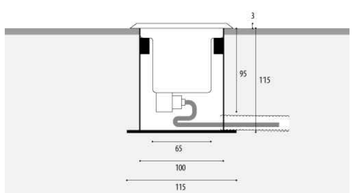
SCALE: NOT TO SCALE

ONE-LIGHT LANTERN
STAINLESS STEEL CONSTRUCTION
POST TOP - FITTER FOR 3" POST OR PEDESTAL MOUNTED.

OUTDOOR DARK SKY COMPLIANT AND UL SAFETY LISTED FOR USE IN WET LOCATIONS (CCSAUS WET LOCATION LISTED)
100-WATT MAX MEDIUM BASE BULB, OR LED EQUIVALENT WITH E26 BASE PORCELAIN SOCKET.

PRE-WIRED, 120 V.





LED RECESSED FLOOR SPOT LIGHT
LUMINOUS FLUX 2,000 LUMEN
CORRELATED COLOR TEMPERATURE (NOM) 3000 K
LUMINOUS EFFICACY (RATED) (NOM) 100 LM/W
COLOR RENDERING INDEX (CRI) >80
BEAM ANGLE OF LIGHT SOURCE 12 DEGREE(S)
LIGHT SOURCE COLOR 830 WARM WHITE
OPTIC TYPE BEAM ANGLE 12 TO 36°
OPTICAL COVER/LENS TYPE ALUMINUM AND POLYCARBONATE
LUMINAIRE LIGHT BEAM SPREAD 12°

INPUT VOLTAGE: 240 V

HOUSING MATERIAL: ALUMINUM ALLOY
OPTIC MATERIAL: ALUMINUM AND POLYCARBONATE
OPTICAL COVER/LENS MATERIAL: POLYCARBONATE
MOUNTING DEVICE: MOUNTING BRACKET ADJUSTABLE
OVERALL HEIGHT 113 MM

SP-1 RECESSED FLOOR SPOT LIGHT

SCALE: NOT TO SCALE

PROPOSED ELECTRICAL DETAILS

SCALE: AS SHOWN

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

IPG INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera • Suite 1838
654 Plaza, San Juan, PR 00738
Tel. (787) 998-5890 / 5891
Email: info@ingenium.group

SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

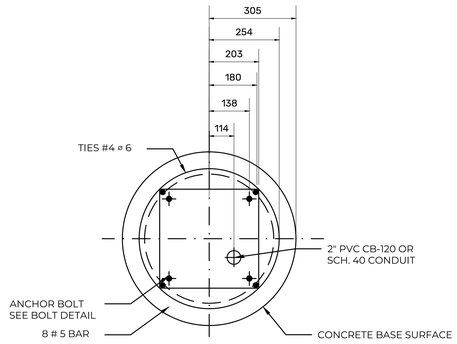
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

PROPOSED ELECTRICAL DETAILS

DRAWING No.

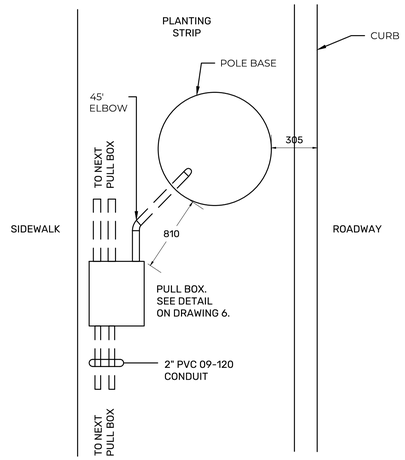
E-1.6



SEE ANCHOR & BASE DETAIL ON DRAWING No. 5

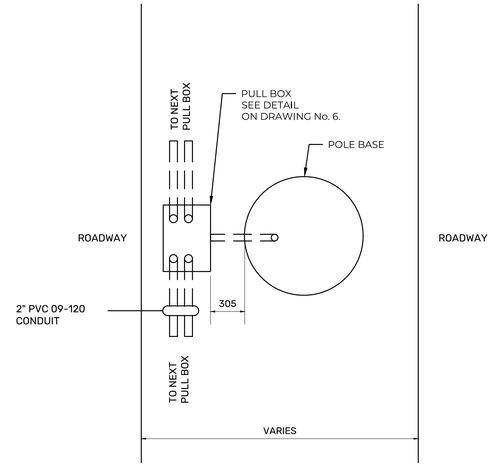
CONC. BASE TOP VIEW (TRANSFORMER OR SHOE BASE)

SCALE: NOT TO SCALE



PLANTING STRIP INSTALLATION

SCALE: NOT TO SCALE



MEDIAN INSTALLATION

SCALE: NOT TO SCALE

LIGHTING POLES LOCATIONS

1- AT 4.2m BEHIND THE CURB.

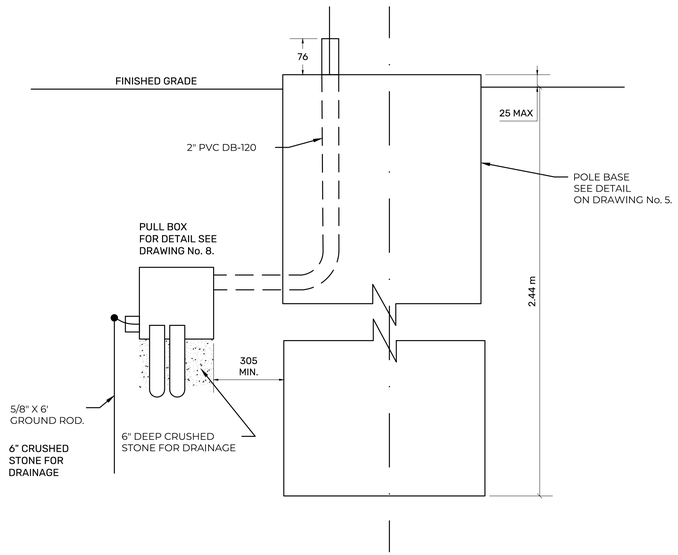
2- AT 1.2m FROM OUTSIDE EDGE OF SHOULDER.

3- IN PLANTING STRIP.

4- AT CENTER OF MEDIAM OR CONCRETE BARRIER.

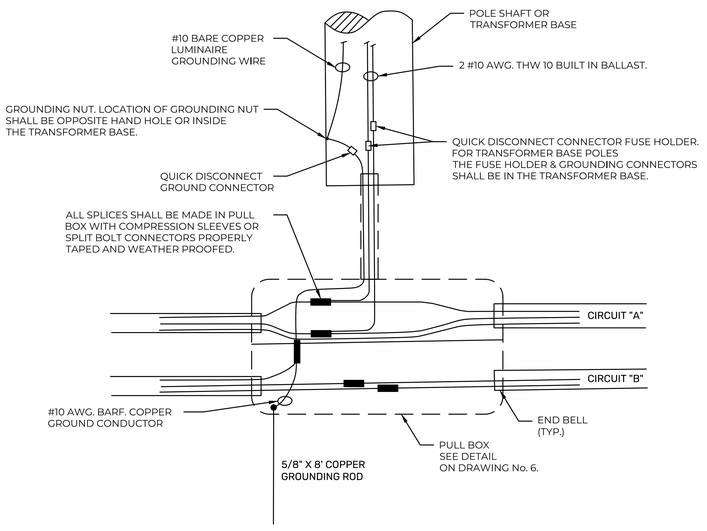
THIS DISTANCE IS MINIMUM AND MEASURED TO THE EXTERIOR SURFACE OF POLE SHAFT AT BASE.

THE POLE SHALL BE LOCATED A MINIMUM OF .76m BEHING THE GUARD RAIL'S MAXIMUM DEFLECTION.



DETAIL OF PULL BOXES FOR LIGHTING CIRCUITS

SCALE: NOT TO SCALE



LIGHTING POLE CONNECTION DETAIL

SCALE: NOT TO SCALE

PROPOSED ELECTRICAL DETAILS

SCALE: AS SHOWN

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

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PROJECT

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REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

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SIGNATURE

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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

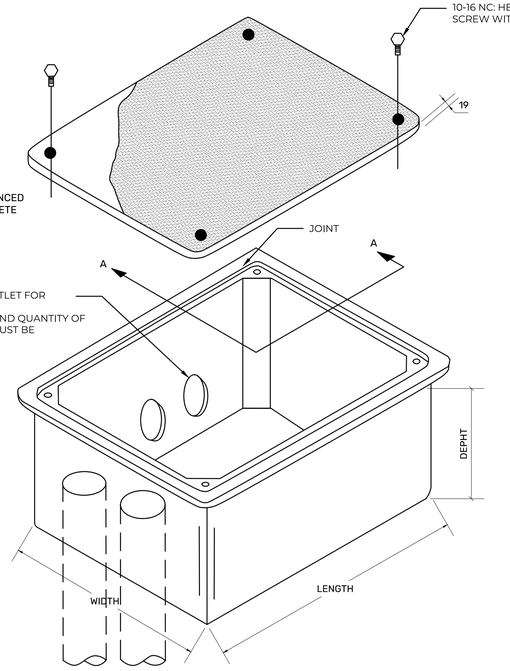
TITLE

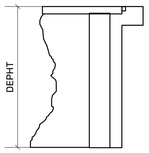
PROPOSED ELECTRICAL DETAILS

DRAWING No.

E-1.7

COVER:
MATERIAL: POLYMER CONCRETE
REINFORCED WITH HIGHIY INTERLANCED
FIBERGLASS, CAST IRON OR CONCRETE





SECTION A-A

OPEN BASE BOX (INSIDE DIMENSION)			
DESIGNATION	**LENGHT**	**WIDTH**	**DEPTH**
A	457	203	457
B	432	254	305
C	254	254	305
D	483	229	305
E	660	330	457
F	762	457	610

NOTES:
DIMENSIONS ARE MINIMUM, INSIDE BOX

NOTES:
1- UNLESS OTHERWISE INDICATED, PULL BOX SIZE "A" SHALL BE INCLUDED AS A SUBSIDIARY OBLICATION UNDER ALL LIGHTING STANDARDS PAY ITEMS, THIS INCLUDES BUT IS NOT LIMITED TO THE COMPLETE CONNECTION AS INDICATED ON DRAWING No. 4.
2- THIS PULL BOX MUST BE TOTALLY BURED AND WITHSTAND A DESIGN LOAD 15.000 POUNDS TOTAL

PULL BOX MATERIAL:

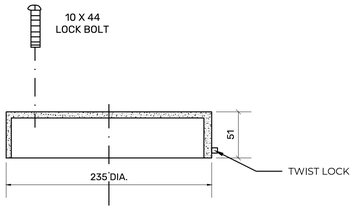
MATERIAL: POLYMER CONCRETE
REINFORCED WITH HIGHLY INTERLACED FIBERGLASS OR HEAVY-WAVE FIBERGLASS, CAST IRON, ALUMNUM OR CONCRETE.

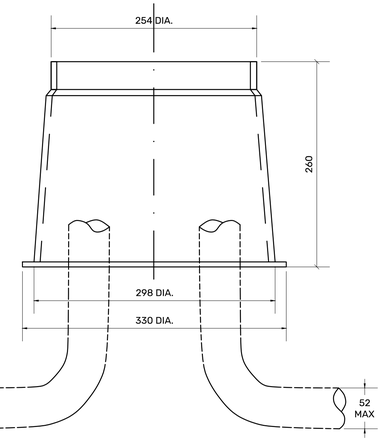
PROPOSED ELECTRICAL DETAILS

SCALE: AS SHOWN

PULL BOX FOR LIGHTING CIRCUITS_DETAILS

SCALE: NOT TO SCALE

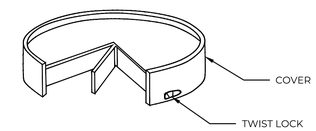


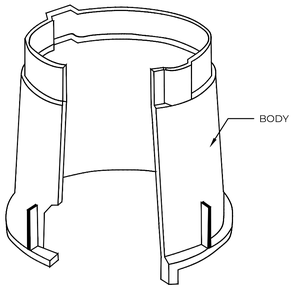


PULL BOX MATERIAL:
MATERIAL: HIGH DENSITY POLYMER.
COLOR: GREEN.

ALTERNATE PULL BOX FOR LIGHTING CIRCUITS

SCALE: NOT TO SCALE





NOTES:
1- THIS PULL BOX SHALL BE USE AS AN ALTERNATE FOR A MAXIMUM OF: ONE LIGHTING CIRCUIT WITH #2 AWG MAXIMUM CONDUCTOR GAGE, THREE 52 CONDUITS.

2- ALTERNATE PULL BOX SHALL BE CARSON-BROOKS MODEL 910 OR APPROVED EQUAL

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SIGNATURE

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FILE

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

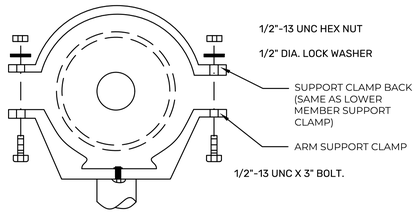
Progress Print:

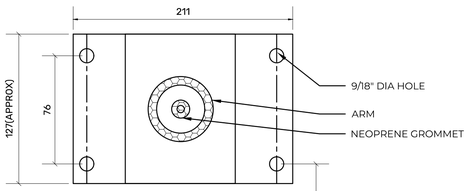
TITLE

PROPOSED ELECTRICAL DETAILS

DRAWING No.

E-1.8





SPECIFICATIONS

CLAMP TYPE LUMINAIRE SUPPORT ARM ATTACHMENT SHALL BE FABRICATED FROM EXTRUDED ALUMINUM ALLOY 6063-T-6 AND TO LUMINAIRE SUPPORT ARMS.

WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.5.3 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNALS. LUMINAIRES AND TRAFFIC SIGNALS.

BOLTS AND NUTS SHALL BE FABRICATED FROM AISI TYPE 300 SERIES STAINLESS STELL ACCORDING TO ANSI 81.1.

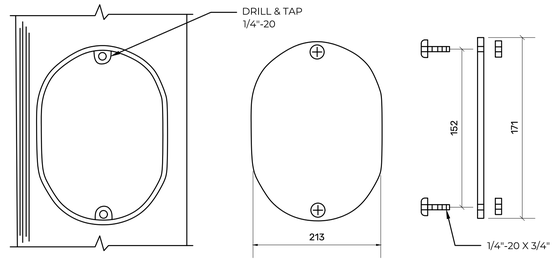
WASHERS SHALL BE FABRICATED FROM AISI 300 SERIES STAINLESS STEEL ACCORDING TO THE REQUIREMENTS OF ANSI 818.21.1.

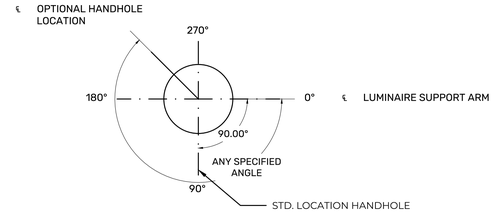
SUPPORT CLAMP BACK SHALL BE IDENTICAL TO LOWER MEMBER SUPPORT CLAMP, SINGLE MEMBER ARMS SHALL BE FURNISHED WITH ONE (1) CLAMP BACK, FOUR (4) BOLTS EIGHT (8) LOCK WASHERS, AND EIGHT (8) NUT

CLAMP BACK SHALL BE NOT REQUIRED FOR TWIN ARM INSTALLATIONS.

SIZE AND SHAPE MAY VARY; THE PERFORMANCE INTENDED REMAINS.

CLAMP TYPE
LUMINAIRE, SUPPORT ARM ATTACHMENT DETAIL





SPECIFICATIONS

HAND HOLE REINFORCEMENT SHALL BE FABRICATED FROM 3/16" EXTRUDED ALUMINUM ALLOY 6063 OR CAST FROM ALUMINUM ALLY 356.

REINFORCEMENT SHALLBE WELDED TO THE POLE SHAFT IN THE 90° LOCATION OR IN THE SPECIFIED LOCATION (SEE NOTE N°. 4 OF DRAWING 10).

WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.5.3 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS. LUMINAIRES, AND TRAFFIC SIGNALS.

TWO (2) ANSI TYPE 300 SERIES STAINLESS STEEL 1/4"-20 X 3/4" HEX CAP SCREWS AND TWO (2) CAPTIVE WASHER.

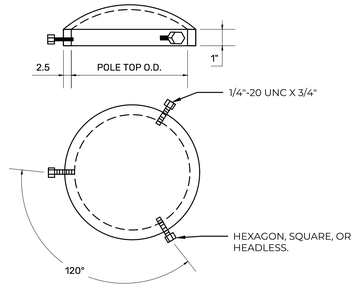
HANDHOLE COVER SHALL BE OF HIGH DENSITY PLASTIC WITH U.V. INHIBITORS.

NOTES:

1- STANDARD HAND HOLE LOCATION SHALL BE 90° FROM LUMINAIRE SUPPORT ARM.

2- HAND HOLE ON POLES MOUNTED ON MEDIAN BARRIERS SHALL BE 0° FROM LUMINAIRE SUPPORT ARM.

HANDHOLE COVER AND BOLTS DETAIL



SPECIFICATIONS

POLE TOP SHALL BE CAST FROM ALUMINUM ALLOY 356.

DIMENSION SHOWN ON DRAWINGS ARE NOMINAL.

POLE TOP SHALL BE FUSNISHED WITH THREE (3) 1/4-20 X 3/4" AISI TYPE 300 SERIES STAINLESS STEEL SET SCREWS.

POLE TOP DETAIL

PROPOSED ELECTRICAL DETAILS
SCALE: AS SHOWN

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

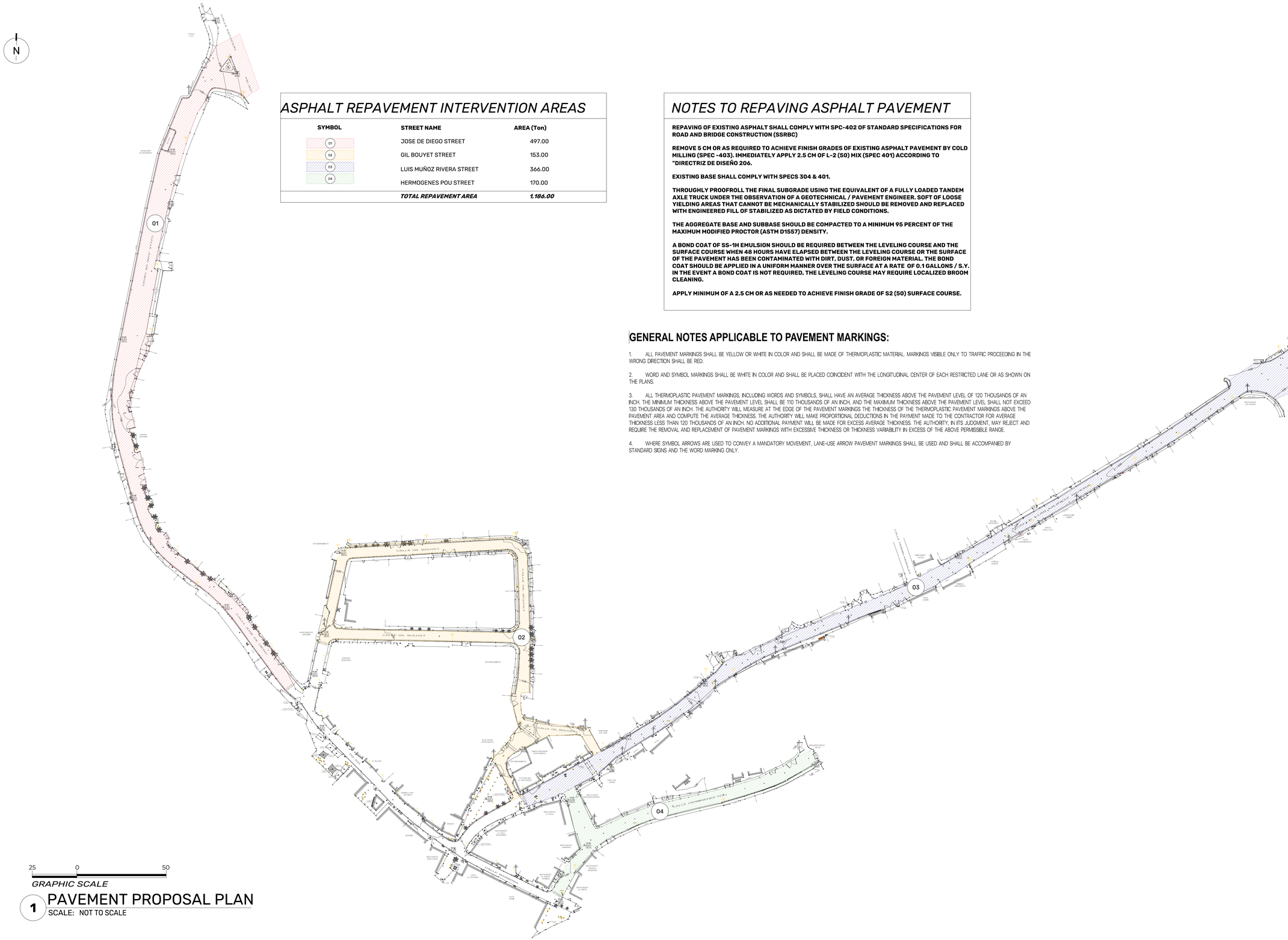
TITLE

PROPOSED ELECTRICAL DETAILS

DRAWING No.

E-1.9

P A V E M E N T P R O P O S A L P L A N



ASPHALT REPAVEMENT INTERVENTION AREAS

SYMBOL	STREET NAME	AREA (Ton)
01	JOSE DE DIEGO STREET	497.00
02	GIL BOUYET STREET	153.00
03	LUIS MUÑOZ RIVERA STREET	366.00
04	HERMOGENES POU STREET	170.00
	TOTAL REPAVEMENT AREA	***1,186.00***

NOTES TO REPAVING ASPHALT PAVEMENT

REPAVING OF EXISTING ASPHALT SHALL COMPLY WITH SPC-402 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC)

REMOVE 5 CM OR AS REQUIRED TO ACHIEVE FINISH GRADES OF EXISTING ASPHALT PAVEMENT BY COLD MILLING (SPEC -403). IMMEDIATELY APPLY 2.5 CM OF L-2 (50) MIX (SPEC 401) ACCORDING TO "DIRECTRIZ DE DISEÑO 206.

EXISTING BASE SHALL COMPLY WITH SPECS 304 & 401.

THROUGHLY PROOFROLL THE FINAL SUBGRADE USING THE EQUIVALENT OF A FULLY LOADED TANDEM AXLE TRUCK UNDER THE OBSERVATION OF A GEOTECHNICAL / PAVEMENT ENGINEER. SOFT OF LOOSE YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REMOVED AND REPLACED WITH ENGINEERED FILL OF STABILIZED AS DICTATED BY FIELD CONDITIONS.

THE AGGREGATE BASE AND SUBBASE SHOULD BE COMPACTED TO A MINIMUM 95 PERCENT OF THE MAXIMUM MODIFIED PROCTOR (ASTM D1557) DENSITY.

A BOND COAT OF SS-1H EMULSION SHOULD BE REQUIRED BETWEEN THE LEVELING COURSE AND THE SURFACE COURSE WHEN 48 HOURS HAVE ELAPSED BETWEEN THE LEVELING COURSE OR THE SURFACE OF THE PAVEMENT HAS BEEN CONTAMINATED WITH DIRT, DUST, OR FOREIGN MATERIAL. THE BOND COAT SHOULD BE APPLIED IN A UNIFORM MANNER OVER THE SURFACE AT A RATE OF 0.1 GALLONS / S.Y. IN THE EVENT A BOND COAT IS NOT REQUIRED, THE LEVELING COURSE MAY REQUIRE LOCALIZED BROOM CLEANING.

APPLY MINIMUM OF A 2.5 CM OR AS NEEDED TO ACHIEVE FINISH GRADE OF S2 (50) SURFACE COURSE.

GENERAL NOTES APPLICABLE TO PAVEMENT MARKINGS:

1. ALL PAVEMENT MARKINGS SHALL BE YELLOW OR WHITE IN COLOR AND SHALL BE MADE OF THERMOPLASTIC MATERIAL. MARKINGS VISIBLE ONLY TO TRAFFIC PROCEEDING IN THE WRONG DIRECTION SHALL BE RED.

2. WORD AND SYMBOL MARKINGS SHALL BE WHITE IN COLOR AND SHALL BE PLACED COINCIDENT WITH THE LONGITUDINAL CENTER OF EACH RESTRICTED LANE OR AS SHOWN ON THE PLANS.

3. ALL THERMOPLASTIC PAVEMENT MARKINGS, INCLUDING WORDS AND SYMBOLS, SHALL HAVE AN AVERAGE THICKNESS ABOVE THE PAVEMENT LEVEL OF 120 THOUSANDS OF AN INCH. THE MINIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL BE 110 THOUSANDS OF AN INCH, AND THE MAXIMUM THICKNESS ABOVE THE PAVEMENT LEVEL SHALL NOT EXCEED 130 THOUSANDS OF AN INCH. THE AUTHORITY WILL MEASURE AT THE EDGE OF THE PAVEMENT MARKINGS THE THICKNESS OF THE THERMOPLASTIC PAVEMENT MARKINGS ABOVE THE PAVEMENT AREA AND COMPUTE THE AVERAGE THICKNESS. THE AUTHORITY WILL MAKE PROPORTIONAL DEDUCTIONS IN THE PAYMENT MADE TO THE CONTRACTOR FOR AVERAGE THICKNESS LESS THAN 120 THOUSANDS OF AN INCH. NO ADDITIONAL PAYMENT WILL BE MADE FOR EXCESS AVERAGE THICKNESS. THE AUTHORITY, IN ITS JUDGMENT, MAY REJECT AND REQUIRE THE REMOVAL AND REPLACEMENT OF PAVEMENT MARKINGS WITH EXCESSIVE THICKNESS OR THICKNESS VARIABILITY IN EXCESS OF THE ABOVE PERMISSIBLE RANGE.

4. WHERE SYMBOL ARROWS ARE USED TO CONVEY A MANDATORY MOVEMENT, LANE-USE ARROW PAVEMENT MARKINGS SHALL BE USED AND SHALL BE ACCOMPANIED BY STANDARD SIGNS AND THE WORD MARKING ONLY.

25 0 50

GRAPHIC SCALE

1 PAVEMENT PROPOSAL PLAN

SCALE: NOT TO SCALE

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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INGENIUM PROFESSIONAL GROUP

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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

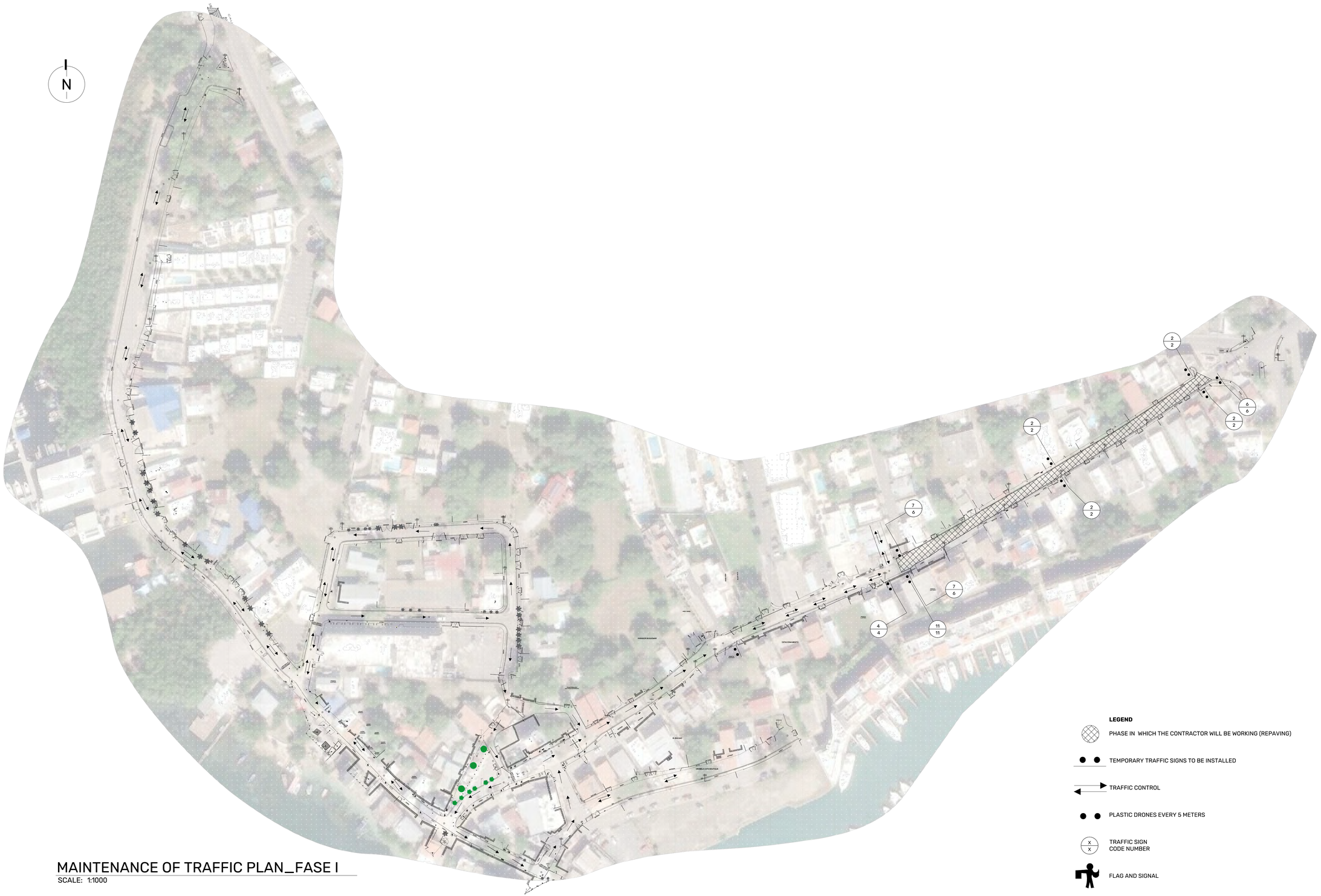
TITLE

PAVEMENT PROPOSAL PLAN

DRAWING No.

PA1.0

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E I



MAINTENANCE OF TRAFFIC PLAN_FASE I
SCALE: 1:1000

LEGEND

- PHASE IN WHICH THE CONTRACTOR WILL BE WORKING (REPAVING)
- TEMPORARY TRAFFIC SIGNS TO BE INSTALLED
- TRAFFIC CONTROL
- PLASTIC DRONES EVERY 5 METERS
- TRAFFIC SIGN CODE NUMBER (X / X)
- FLAG AND SIGNAL

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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SIGNATURE

William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

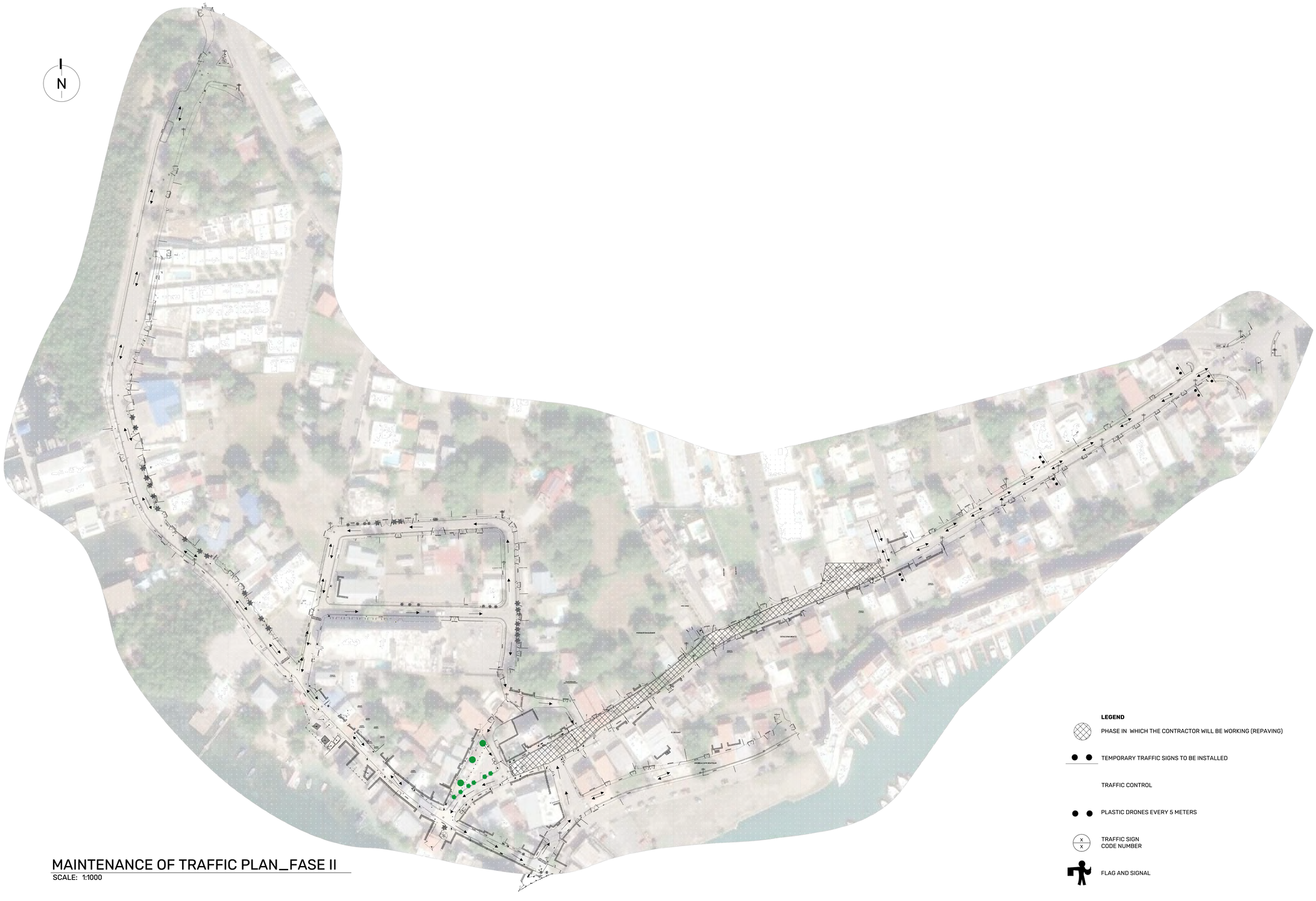
FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MAINTENANCE OF TRAFFIC PLAN_FASE I

DRAWING No.
SI1.1

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E I I



MAINTENANCE OF TRAFFIC PLAN_FASE II

SCALE: 1:1000

LEGEND

PHASE IN WHICH THE CONTRACTOR WILL BE WORKING (REPAVING)

TEMPORARY TRAFFIC SIGNS TO BE INSTALLED

TRAFFIC CONTROL

PLASTIC DRONES EVERY 5 METERS

TRAFFIC SIGN CODE NUMBER

FLAG AND SIGNAL

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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FILE

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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

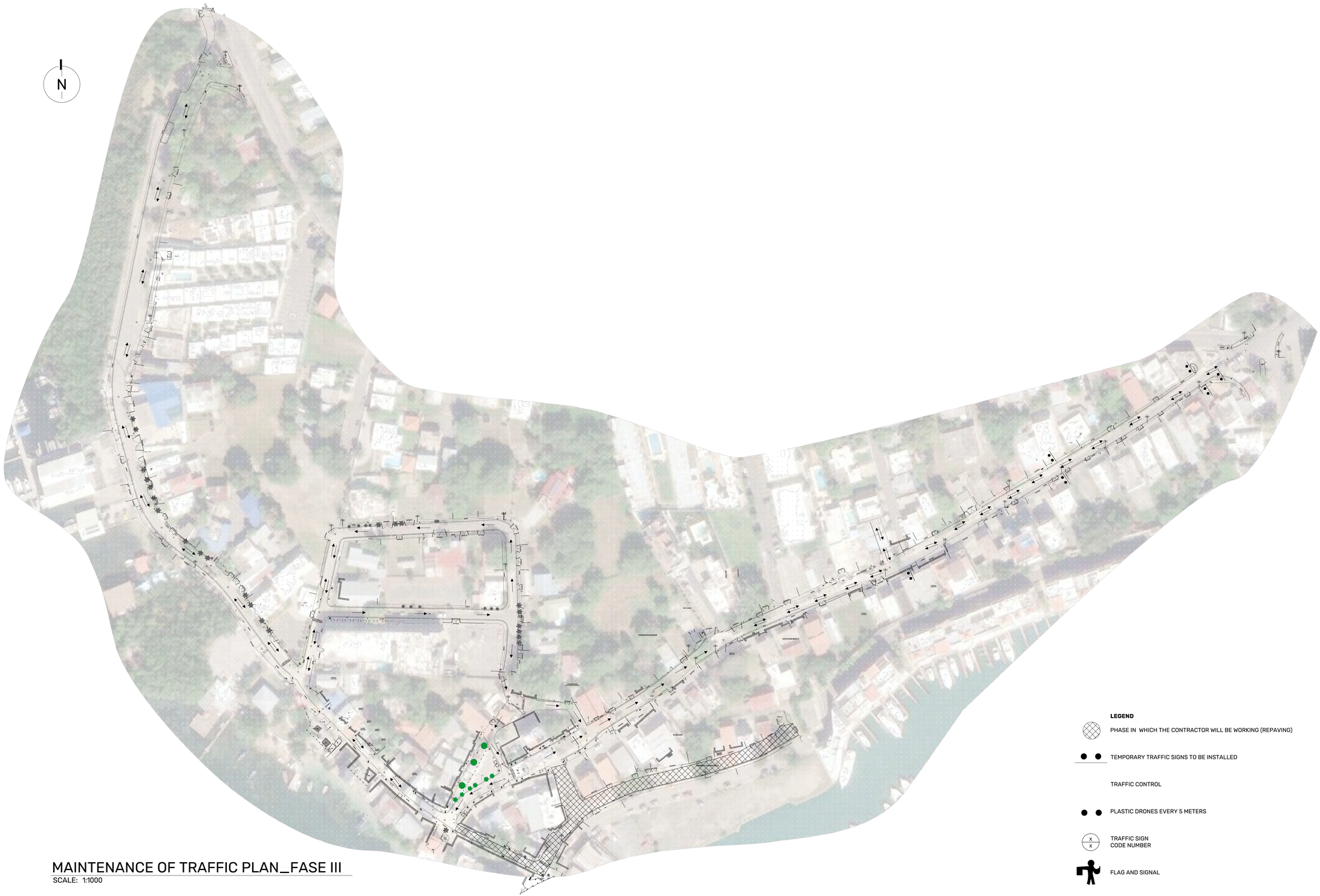
TITLE

MAINTENANCE OF TRAFFIC PLAN_FASE II

DRAWING No.

SI1.2

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E I I I



MAINTENANCE OF TRAFFIC PLAN_FASE III
SCALE: 1:1000

LEGEND

- PHASE IN WHICH THE CONTRACTOR WILL BE WORKING (REPAVING)
- TEMPORARY TRAFFIC SIGNS TO BE INSTALLED
- TRAFFIC CONTROL
- PLASTIC DRONES EVERY 5 METERS
- TRAFFIC SIGN CODE NUMBER
- FLAG AND SIGNAL

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO, PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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CERTIFICATION

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INGENIUM PROFESSIONAL GROUP
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Tel. (787) 918-5890 / 5891
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SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MAINTENANCE OF TRAFFIC PLAN_FASE III

DRAWING No.
SI1.3

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E I V



MAINTENANCE OF TRAFFIC PLAN_FASE IV
SCALE: 1:1000

LEGEND

PHASE IN WHICH THE CONTRACTOR WILL BE WORKING (REPAVING)

TEMPORARY TRAFFIC SIGNS TO BE INSTALLED

TRAFFIC CONTROL

PLASTIC DRONES EVERY 5 METERS

TRAFFIC SIGN
CODE NUMBER

FLAG AND SIGNAL

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE

MAINTENANCE OF TRAFFIC PLAN_FASE IV

DRAWING No.

SI1.4

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E V



MAINTENANCE OF TRAFFIC PLAN_FASE V
SCALE: 1:1000

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO, PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MAINTENANCE OF TRAFFIC PLAN_FASE V

DRAWING No.
SI1.5

M A I N T E N A N C E O F T R A F F I C P L A N _ F A S E V I



MAINTENANCE OF TRAFFIC PLAN_FASE VI
SCALE: 1:1000

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
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PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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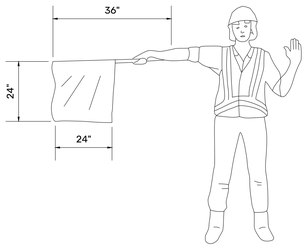
Plot Scale: AS SHOWN
Progress Print:

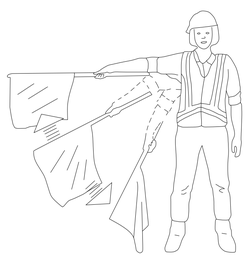
TITLE
MAINTENANCE OF TRAFFIC PLAN_FASE VI

DRAWING No.
SI1.6

EMERGENCY SITUATIONS ONLY
Red Flag



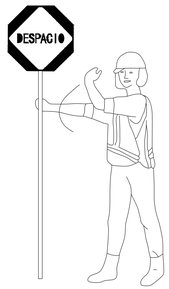


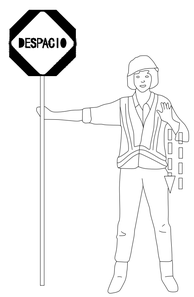


TO LET TRAFFIC PROCEED



TO STOP TRAITIC





TO ALERT AND SLOW TRAFFIC

USE OF HAND-SIGNALING DEVICES BY FLAGGERS

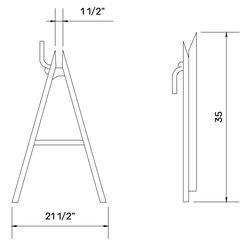
Flagger Procedures

Standard:

The following methods of signaling with paddles shall be used:

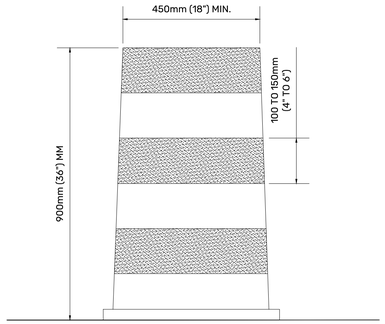
A. To stop road user, the flagger shall face road users and oimthe STOP paddle face toward road users in a stationary position with the arm extended horizontally away from the body. The free arm shall be held with the palm of the hand above shoulder level toward approaching traffic.
B. To direct stopped road users to proceed, the flagger shall face road users with the SLOW paddle face aimed toward road users in a stationary position with the arm extended horizontally away from the body. The flagger shall motion with the free hand for road users to proceed.
C. To alert or slow traffic, the flagger shall face road users with the SLDW paddle face aimed toward road users in a stationary position with the arm extended horizontally away from the body.

PREFERRED METHOD
STOP/SLOW Paddle



FOR USE IN PAIRS, WITH A WOOD BOARD (NO FURNISHED) TO 2-1/2 INCHES THICK, IN PROTECTING WORK AREAS CONSISTS OF TWO COLLAMOTBLE "A" LANTERN HOOK.

BARRICADE



NOTES:

DRUMS USED FOR ROAD USER WARNING OR CHANNELIZATION SHALL BE CONSTRUCTED OF LIGHTWEIGHT, DEFORMABLE MATERIALS. THEY SHALL BE A MINIMUM OF 900 MM (36 IN) IN HEIGHT AND HAVE AT LEAST A 450 MM (18 IN) MINIMUM WIDTH REGARDLES OF ORIENTATION METAL DRUMS SHALL NOT BE USED. THE MARKINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUNFERENTAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 100 TO 150 MM (4 TO 6 IN) WIDE. EACH DRUM SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES WITH THE TOP STRIPE BEING ORANGE. ANY NONRETROREFLECTORIZED SPACES BETWEEN THE WILL NOT ALLOW COLLECTION OF CONSTRUCTION DEBRIS OR OTHER DEBRIS.

GENERAL NOTES:

1- A SUITABLE PLAN FOR GUARDING THE WORK AREA SHALL BE DEVEL OPED BEFORE WORK IN THE AREA IS BEGUN THIS MAY BE ACCOMPLISHED DURING THE JOB SITE VISIT PROVIDED FOR IN THE CONSTRUCTION CONTROL PLAN AT BUSY INTERSECTIONS ON HIGHWAY AND CITY STREETS OR AT OTHER HEAVY TRAFFIC LOCATION, THE SUPERVISOR SHALL PRE SURVEY THE WORK LOCATION AND THE DISCUSS THE PROTECTION PLAN WITH THE CRAFTSMEN BEFORE WORKS IS ATARTED.

2- THE DEVICES REQUIRED TO PROTECT A WORK AREA MUST BE CONSIDERED IN ADVANCE TO MEET THE INDIVIDUAL RECUREMENT OF THE JOB SITE CRAFTSMEN FAMILIAR WITH THE AREA WHERE THE JOB BE PERFORMED DEVICES PRIOR TO STARTING A LOB. SUPERVISOR CONDUCTING FIELD JOB PLAN REPORT (FORCE MANAGEMENT PLAN) OF THE PROTECTIVE DEVICES REQUIRED TO ADEQUATEL Y PROTECT THE WORK AREA.

3- STATE AND LOCAL LAWS AND ORDINANCES PERTAINNG TO TRAFFIC CONTROL WARNING SIGNALS, COLOR OF LENSES IN LIGHTING DEVICES, GUARDS AND SIMILAR DEVICE MUST BE COMPLIED WITH IT IS GOOD PRACTICE TO NOTIFY LOCAL LAW ENFORCEMENT OFFICIALS WHEN A MINOR TRAFFIC DISLOCATION IS INVOLVED WHERE A MAJOR TRAFFIC ARTERY WITHIN A TOWN, THE POLICE FORCE HAVING JURISDICTION SHOULD BE CONSULTED BEFORE WORK BEGUN.

4- WHEN WORK IS PERFORMED DURING HOURS OF DARKNESS, BARRICADES WITH STEADY BURNING LIGHTS CAN BE USED IN ADDITION TO OR IN PLACE OF WARNING CONES FOR CHANNELING THE ON COMING TRAFFIC AROUND THE WORK AREA.

5- WHEN A VEHICLE IS USED IN GUARDING A WORK AREA, IT SHALL BE CONSIDERED SUPPLEMENTAL TO ALL OTHER WARNING DEVICE NECESSARY TO ADEQUATELY SAFEGUARD THE AREA NOT AS A SUBSTITUTE FOR ANY DEVICE IN THIS WAY, THE WORK AREA IS PROTECTED SHOULD IT BE NECESSARY TO REMOVE THE VEHICLE.

6- THE AMOUNT OF WORK TO BE PERFORMED SHALL HAVE NO BEARING AS TO WHETHER OR NOT WORK AREA PROTECTION IS REQUIRED WARNING AND GUARDING DEVICES ARE TO BE PLACED WHENEVER WORK OF ANY DURATION IS PERFORMED IN ROADWAY.

7- WHEN MANHOLE WORK IS INVOLVED, PLACE TOOLS AND EQUIPMENT AT THE WORK AREA IN A POSITION TO PREVENT THEM FROM BEING PUSHED INTO THE MANHOLE.

8- IN ENTERING OR LEAVING MANHOLES, EMPLOYEES ARE TO FACE THE DIRECTION OF THE ONCOMING TRAFFIC.

EXAMPLE OF TYPICAL CONSTRUCTION TRANSIT CONTROL

IMPORTANT NOTES:

1- CONTRACTOR MUST COMPLY WITH THE "MANUAL DE DISPOSITIVOS UNIFORMES PARA EL CONTROL DE TRANSITO EN LAS VIAS PUBLICAS DE P.R. MOST RECENT EDITION AS REQUIRED BY D.T.P.W.

2- DURING THE CONSTRUCTION THE CONTRACTOR MUST ALWAYS PROVIDE FOR UNINTERRUPTED TWO-WAY TRANSIT.
NOTES TO CONSTRUCTION INSPECTOR + CONTRACTOR:

1- IT IS THE CONSTRUCTION INSPECTOR RESPONSIBILITY TO INSURE THE ENFORCEMENT COMPLIANCE OF ALL SAFETY RULES INCLUDED IN THE BELL SYSTEM PRACTICE NUMBER 620-135-010. 'GUARDING WORK AREAS' AS WELL AS STATE AND/OR LOCAL RULES APPLICABLE.

2- THE CONTRATOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAFETY REQUIREMENTS IN NO EVENT THE OMISSION OF ANY SUCH REQUIREMENT IN THESE NOTES WILL WAIVE THE CONTRACTOR TO COMPLY WITH THEM.

3- SEE SPECIFICATION SECTION 1040 'COORDINATION' FOR TRANSIT CONTROL DURING CONSTRUCTION.

4- IN NO EVENT THE MATERIAL PRODUCT OF ANY EXCAVATION SHALL INTERFERE WITH THE FREE TRANSIT OF VEHICLES AND/OR PEDESTRIANS.

5- THE CONTRACTOR SHALL AT ALL TIMES TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE WORK AND OF THE PUBLIC AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, COMMONWEALTH AND MUNICIPAL SAFETY LAWS AND BUILDING AND CONSTRUCTION CODES WHEN APPLICABLE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PUERTO RICO OCCUPATIONAL SAFETY AND HEATH ACT (LAW NUMBER 16 APPROVED ON AUGUST 5, 1975) THE CONTRACTOR SHALL PROVIDE AND UTILIZE EQUIPMENT FOR PERSONAL PROTECTION, MATERIALS, TOOLS, EQUIPMENT AND APPROVED WORK PROCEDURES WHICH GUARANTEE THE PERFORMANCE OF THE DISPOSITION OF THE GENERAL INDUSTRY OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND THE SAFETY AND HEALTH STANDARDS APPLICABLE TO THE CONSTRUCTION INDUSTRY (10 OSHO 1926).

NOTES:

1- INITIAL WARNING SIGN TO BE PLACED AT A POINT 10 TIMES POSTED SPEED.
* INITIAL WARNING SIGN TO BE PLACED AT A POINT 6 TIMES POSTED SPEED.

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MAINTENANCE OF TRAFFIC PLAN_DETAILS

DRAWING No.
SI2.1

MAINTENANCE OF TRAFFIC PLAN_DETAILS
SCALE: NOT TO SCALE

CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVERHEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1	W 20-1		60" X 60"	G.M.	SEE DTPW MANUAL	
2	2	W 20-1		60" X 60"	G.M.	SEE DTPW MANUAL	
3	3	W 20-1		60" X 60"	G.M.	SEE DTPW MANUAL	
4	4	W1-1(L)		30" X 30"	G.M.	SEE DTPW MANUAL	
5	5	W 20-1		60" X 60"	G.M.	SEE DTPW MANUAL	
6	6	W 20-1		48" X 48"	G.M.	SEE DTPW MANUAL	
7	7	W 20-1		48" X 48"	G.M.	SEE DTPW MANUAL	
8	8	G 20-2		50" X 20"	G.M.	SEE DTPW MANUAL	

CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVERHEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
9	9	W 20-5		48" X 48"	G.M.	SEE DTPW MANUAL	
10	10	W 20-1A		48" X 48"	G.M.	SEE DTPW MANUAL	
11	11	W 20-7A		48" X 48"	G.M.	SEE DTPW MANUAL	
12	12	W4-2		48" X 48"	G.M.	SEE DTPW MANUAL	
13	13	W1-6(L)		48" X 24"	G.M.	SEE DTPW MANUAL	
14	14	W 1-6(R)		48" X 24"	G.M.	SEE DTPW MANUAL	
15	15	W 1-1(R)		30" X 30"	G.M.	SEE DTPW MANUAL	

SCOPE OF WORK:

A. TRAFFIC

1. INSTALL AND MAINTAIN ALL CONSTRUCTION WARNING SIGNS 55 GALLONS DRUMS (REFER TO DETAIL DTPW "STANDARD DRAWINGS" VOLUME 1. MPT 1 TEMPORARY CONCRETE BARRIERS (REFER TO DETAIL DTPW "STANDARD DRAWINGS" VOLI TO CONTROL THE ADJACENT TRAFFIC.
2. TRAFFIC SHALL BE MAINTAINED IN ALL DIRECTIONS IN EXISTING ACCORDING ENTERING.
3. FLAGPERSONS SHALL BE LOCATED AT THE BEGINNING AND END OF THE PROJECT, AND LOCATION INDICATED BY THE RESIDENT ENGINEER TO CONTROL THOSE POINT OF ENTRA EQUIPMENT TO AND FROM THE CONSTRUCTIONAREA LIMIT.
4. THE CONTRACTOR SHALL EXERCISE THE MOST CARE TO AVOID INCONVENIENCE TO THE HOMES AND BUSINESS AFFECTED BY THE PROJECT
5. GENERAL CONTRACTOR SHALL REFER TO DTPW "STANDARD DRAWINGS" VOLUME 1, STD, FOR ALTERNATE DETAIL OF "CLOSURE IN CENTER OF INTERSECTION".
6. MAINTENANCE

THE CONSTRUCTION, SCHEDULE SHOWN ON THE PLANS SHALL BE FOLLOWED IN ORDER FLOW WITH THE LEAST INTERFERENCE TO THE CONSTRUCTION WORK, AND TO PROVIDE MOTORISTS, PEDESTRIANS AND WORKERS, ANY CHANGE TO THIS SCHEDULE, SHALL BE FOR CONSIDERATION AND APPROVAL, TO THE PUERTO RICO HIGHWAY AUTHORITY, PREV

MAINTENANCE OF TRAFFIC PLAN_TEMPORARY SIGNAGE

SCALE: NOT TO SCALE

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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IMPORTANT NOTES TO THE CONTRACTOR:

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CERTIFICATION

I, WILLIAM MELENDEZ RIVAS, LIC. 16383, CERTIFY THAT I AM THE PROFESSIONAL WHO [MADE, DESIGNED OR PREPARED] THESE PLANS AND THE COMPLEMENTARY SPECIFICATIONS. I ALSO CERTIFY THAT I UNDERSTAND THAT SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE PROVISIONS OF THE JOINT REGULATIONS AND THE APPLICABLE PROVISIONS OF THE REGULATIONS AND BUILDING CODES IN FORCE OF THE AGENCIES, REGULATORY BOARDS OR PUBLIC CORPORATIONS WITH JURISDICTION. I FURTHER CERTIFY THAT THE PREPARATION OF THESE PLANS AND SPECIFICATIONS HAS FULLY COMPLIED WITH THE PROVISIONS OF LAW 14-2004, AS AMENDED, KNOWN AS THE "LAW FOR INVESTMENT BY THE PUERTO RICAN INDUSTRY" AND WITH THE [LAW NO. 319 OF MAY 15, 1938, AS AMENDED; ACT NO. 96 OF JULY 6, 1978, AS AMENDED; AS APPLICABLE]. I ACKNOWLEDGE THAT ANY FALSE STATEMENT OR MISREPRESENTATION OF FACTS THAT HAS BEEN PRODUCED BY IGNORANCE OR NEGLIGENCE EITHER BY ME, MY AGENTS OR EMPLOYEES, OR BY OTHERS WITH MY KNOWLEDGE, MAKES ME RESPONSIBLE FOR ANY JUDICIAL AND DISCIPLINARY ACTION BY THE OGPE.

IPG INGENIUM PROFESSIONAL GROUP
654 Ave. Muñoz Rivera - Suite 1838
654 Plaza, San Juan, PR 00738
Tel: (787) 918-5890 / 5891
Email: info@ingenium.group

SIGNATURE

William Meléndez Rivas
Ingeniero Licenciado
Lic. 16383 P.E.
Puerto Rico

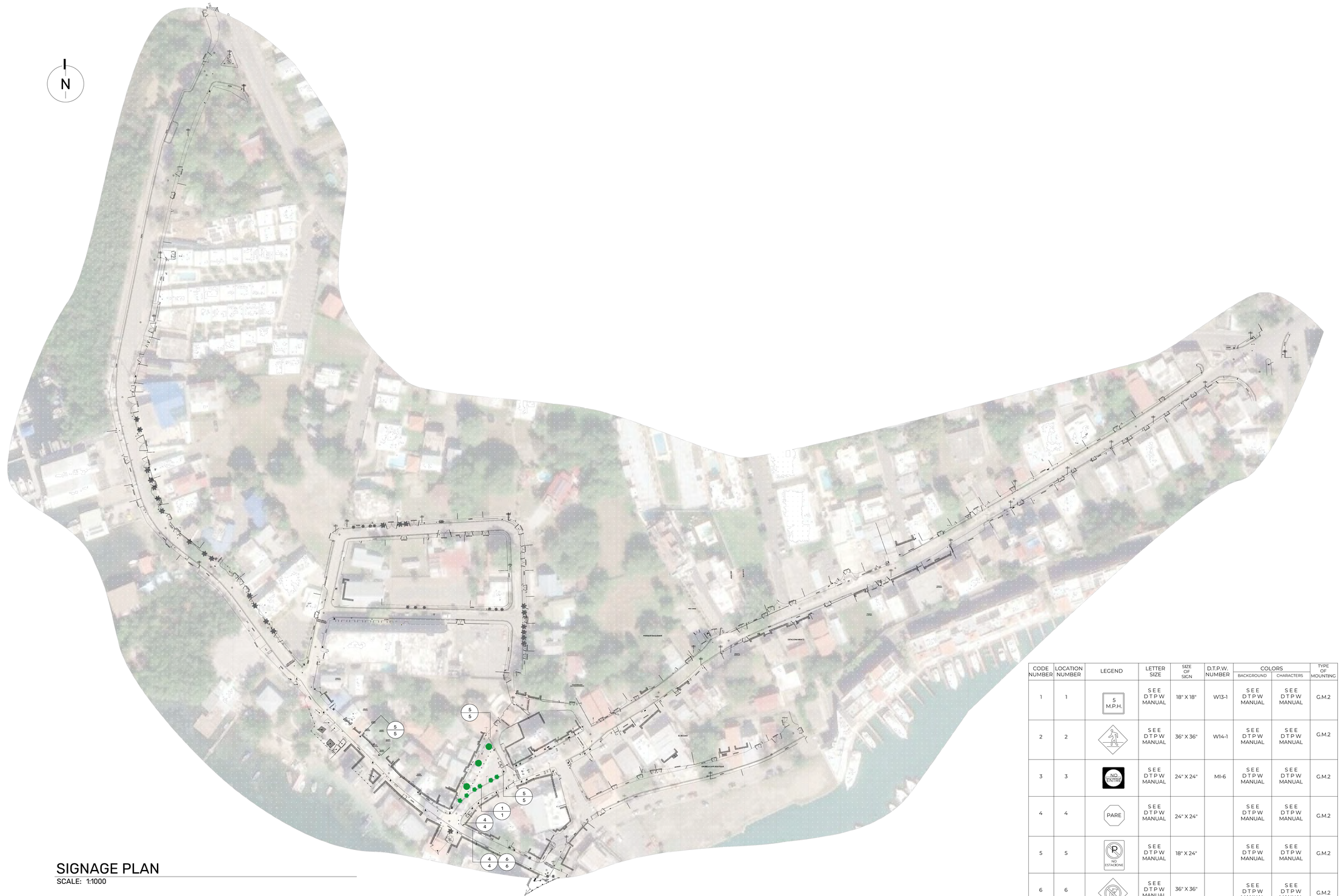
FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
MAINTENANCE OF TRAFFIC PLAN_TEMPORARY SIGNAGE

DRAWING No.
SI2.2

S I G N A G E P L A N



SIGNAGE PLAN
SCALE: 1:1000

CODE NUMBER	LOCATION NUMBER	LEGEND	LETTER SIZE	SIZE OF SIGN	D.T.P.W. NUMBER	COLORS		TYPE OF MOUNTING
						BACKGROUND	CHARACTERS	
1	1	5 M.P.H.	SEE DTPW MANUAL	18" X 18"	W13-1	SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2
2	2		SEE DTPW MANUAL	36" X 36"	W14-1	SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2
3	3	NO ENTRE	SEE DTPW MANUAL	24" X 24"	MI-6	SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2
4	4	PARE	SEE DTPW MANUAL	24" X 24"		SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2
5	5	NO ESTACIONE	SEE DTPW MANUAL	18" X 24"		SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2
6	6		SEE DTPW MANUAL	36" X 36"		SEE DTPW MANUAL	SEE DTPW MANUAL	G.M.2

PROJECT ADDRESS
PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER
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PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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IPG INGENIUM PROFESSIONAL GROUP

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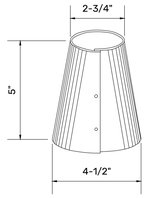
Email: info@ingenium.group

SIGNATURE
William Meléndez Rivas — Ingeniero Licenciado — Lic. 16383 P.E. — Puerto Rico

FILE
Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
SIGNAGE PLAN

DRAWING No.
SI3.1



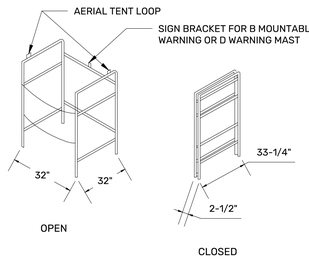
FOR USE IN GUARDING WORK AREAS AT NIGHT THE SILVER COLORED REFLECTOR FITS OVER THE UPPER PART OF TRAFFIC CONES AND REFLECTS LIGHT

TRAFFIC REFLECTOR



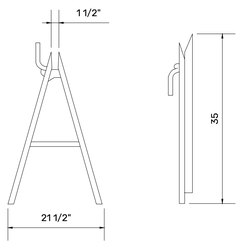
FOR USE AS WARNING TO PREVENT ACCIDENTS IN OR NEAR MANHOLES CONSISTS OF ALUMINUM PLATE WITH SPRING HOOKS FOR ATTACHING TO MANHOLE GUARDS

NO SMOKING SIGN



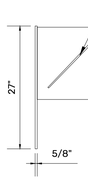
FOR USE IN GUARDING OPEN MANHOLES AND OTHER SMALL OBSTRUCTIONS MAY BE USED AS A BARRICADE OR DEVICE MADE OF 3/4" STEEL PIPE.

MANHOLE GUARD



FOR USE IN PAIRS, WITH WOOD BOARD (NO FURNISHED) TO 2-1/2" INCHES THICK, IN PROTECTING WORK AREAS CONSISTS OF TWO COLLAPSIBLE "A" FRAME IS PROVIDE WITH A FLAG SOCKET AND LANTERN HOOK.

BARRICADE



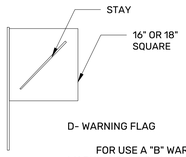
D- WARNING FLAG

FOR USE A WARNING FLAG EITHER BY FLAGMAN OR ON D WARNING MAST WARNING MAST ADAPTER, WARNING SIGN DEMONTABLE WARNING SIGN OR WARNING FLAG BASE AVAILABLE IN RED COTTON CLOTH SIZES 16 IN 18 IN.

H- WARNING FLAG

SAME AS D WARNING FLAG EXCEPT IN RED VINYL COATED NYLON

WARNING FLAG



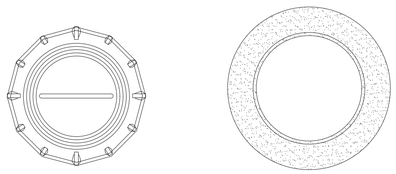
D- WARNING FLAG

FOR USE A "B" WARNING FLAG BRACKET OR WARNING FLAG CHAIN AS A WARNING. AVAILABLE IN RED COTTON CLOTH IN SIZE 16" AND 18".

H- WARNING FLAG

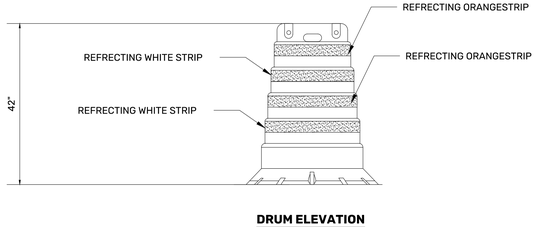
SAME AS C WARNING FLAG EXCEPT IN RED VINYL COATED NYLON

WARNING FLAG



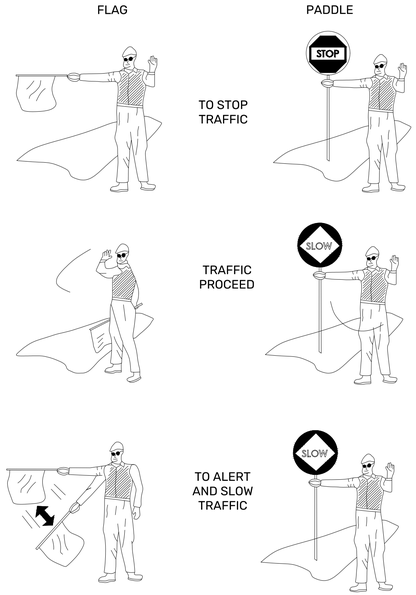
TRAFFIC DRUM PLAN

DRUM BASE SUPPORT PLAN

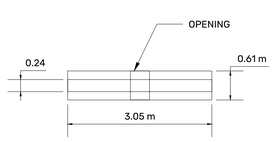


DRUM ELEVATION

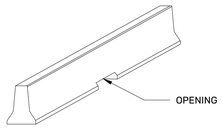
TRAFFIC CANALIZATION OR WARNING DRUM



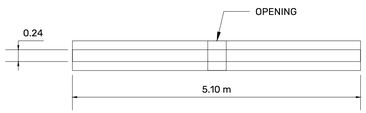
USE OF HAND SIGNALING DEVICES BY FLAGMAN



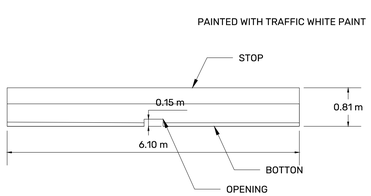
3.05 m. CONCRETE BARRIER PLAN VIEW



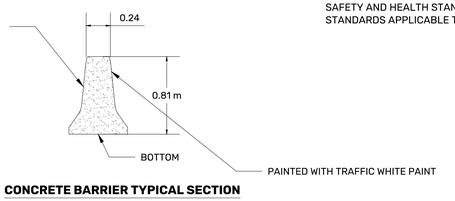
CONCRETE BARRIER ISOMETRIC



6.10 m. CONCRETE BARRIER PLAN VIEW



CONCRETE BARRIER ELEVATION



CONCRETE BARRIER TYPICAL SECTION

TRAFFIC CANALIZATION OR WARNING CONCRETE BARRIER

GENERAL NOTES:

1- A SUITABLE PLAN FOR GUARDING THE WORK AREA SHOULD BE DEVELOPED BEFORE WORK IN THE AREA IS BEGUN THIS MAY BE ACCOMPLISHED DURING THE JOB SITE VISIT PROVIDED FOR IN THE CONSTRUCTION CONTROL PLAN AT BUSY INTERSECTIONS ON HIGHWAY AND CITY STREETS OR AT OTHER HEAVY TRAFFIC LOCATION, THE SUPERVISOR SHALL PRE SURVEY THE WORK LOCATION AND THE DISCUSS THE PROTECTION PLAN WITH THE CRAFTSMEN BEFORE WORKS IS ATARTED.

2- THE DEVICES REQUIRED TO PROTECT A WORK AREA MUST BE CONSIDERED IN ADVANCE TO MEET THE INDIVIDUAL RECUREMENT OF THE JOB SITE CRAFTSMEN FAMILIAR WITH THE AREA WHERE THE JOB BE PERFORMED DEVICES PRIOR TO STARTING A LOB. SUPERVISOR CONDUCTING FIELD JOB PLAN REPORT (FORCE MANAGEMENT PLAN) OF THE PROTECTIVE DEVICES REQUIRED TO ADEQUATEL Y PROTECT THE WORK AREA.

3- STATE AND LOCAL LAWS AND ORDINANCES PERTAINNG TO TRAFFIC CONTROL WARNING SIGNALS, COLOR OF LENSES IN LIGHTING DEVICES, GUARDS AND SIMILAR DEVICE MUST BE COMPLIED WITH IT IS GOOD PRACTICE TO NOTIFY LOCAL LAW ENFORCEMENT OFFICIALS WHEN A MINOR TRAFFIC DISLOCATION IS INVOLVED WHERE A MAJOR TRAFFIC ARTERY WITHIN A TOWN, THE POLICE FORCE HAVING JURISDICTION SHOULD BE CONSULTED BEFORE WORK BEGUN.

4- WHENEVER ROAD CONDITIONS PERMIT, SUFFICIENT WARNING DRUMS SHOULD BE PLACED TO OBTAIN A TAPER LENGTH, IN FEET, OF 10 TIMES THE POSTED TRAFFIC SPEED (AT A POSTED SPEED OF 50 MPH, THE TAPER FORMED BY THE SPACED WARNING DRUMS SHOULD EXTEND 500 FEET FROM THE WORK AREA)

5- WHEN WORK IS PERFORMED DURING HOURS OF DARKNESS, BARRICADES WITH STEADY BURNING LIGHTS CAN BE USED IN ADDITION TO OR IN PLACE OF WARNING CONES FOR CHANNELING THE ON COMING TRAFFIC AROUND THE WORK AREA.

6- WHEN A VEHICLE IS USED IN GUARDING A WORK AREA, IT SHALL BE CONSIDERED SUPPLEMENTAL TO ALL OTHER WARNING DEVICE NECESSARY TO ADEQUATELY SAFEGUARD THE AREA NOT AS A SUBSTITUTE FOR ANY DEVICE IN THIS WAY, THE WORK AREA IS PROTECTED SHOULD IT BE NECESSARY TO REMOVE THE VEHICLE.

7- THE AMOUNT OF WORK TO BE PERFORMED SHALL HAVE NO BEARING AS TO WHETHER OR NOT WORK AREA PROTECTION IS REQUIRED WARNING AND GUARDING DEVICES ARE TO BE PLACED WHENEVER WORK OF ANY DURATION IS PERFORMED IN ROADWAY.

8- WHEN MANHOLE WORK IS INVOLVED, PLACE TOOLS AND EQUIPMENT AT THE WORK AREA IN A POSITION TO PREVENT THEM FROM BEING PUSHED INTO THE MANHOLE.

9- IN ENTERING OR LEAVING MANHOLES, EMPLOYEES ARE TO FACE THE DIRECTION OF THE ONCOMING TRAFFIC.

10- FOR PLACEMENT OF WARNING SIGNS REFER TO THE "MANUAL DE DISPOSITIVOS UNIFORMES PARA EL CONTROL DE TRANSITO EN LAS VIAS PUBLICAS DE PUERTO RICO" OF THE DEPARTMENT OF PUBLIC WORKS.

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NOTES TO CONSTRUCTION INSPECTOR + CONTRACTOR:

1- IT IS THE CONSTRUCTION INSPECTOR RESPONSIBILITY TO INSURE THE ENFORCEMENT COMPLIANCE OF ALL SAFETY RULES INCLUDED IN THE BELL SYSTEM PRACTICE NUMBER 620-135-010. 'GUARDING WORK AREAS' AS WELL AS STATE AND/OR LOCAL RULES APPLICABLE.

2- COPY OF THIS PRACTICE AVAILABLE UPON REQUEST FROM THE O.P. CONSTRUCTION DEPT. CONSTRUCTION DEPT.

3- THE CONTRATOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL STATE OR LOCAL SAFETY REQUIREMENTS IN NO EVENT THE OMISSION OF ANY SUCH REQUIREMENT IN THESE NOTES WILL WAIVE THE CONTRACTOR TO COMPLY WITH THEM.

4- IN NO EVENT SHALL THE CONSTRUCTION INTERFERE WITH THE FREE TRANSIT OF VEHICLES AND/OR PEDESTRIANS.

5- IN NO EVENT THE MATERIAL PRODUCT OF ANY EXCAVATION SHALL INTERFERE WITH THE FREE TRANSIT OF VEHICLES AND/OR PEDESTRIANS.

6- THE CONTRACTOR SHALL AT ALL TIMES TAKE ALL REASONABLE PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE WORK AND OF THE PUBLIC AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, COMMONWEALTH AND MUNICIPAL SAFETY LAWS AND BUILDING AND CONSTRUCTION CODES WHEN APPLICABLE. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PUERTO RICO OCCUPATIONAL SAFETY AND HEATH ACT (LAW NUMBER 16 APPROVED ON AUGUST 5, 1975) THE CONTRACTOR SHALL PROVIDE AND UTILIZE EQUIPMENT FOR PERSONAL PROTECTION, MATERIALS, TOOLS, EQUIPMENT AND APPROVED WORK PROCEDURES WHICH GUARANTEE THE PERFORMANCE OF THE DISPOSITION OF THE GENERAL INDUSTRY OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND THE SAFETY AND HEALTH STANDARDS APPLICABLE TO THE CONSTRUCTION INDUSTRY (10 OSHO 1926).

PROJECT ADDRESS

PLAZA MARGARITA PABON, PR-101 KM 18.6 HASTA KM 19.7 Y CALLES MUNICIPALES: HERMOGENES POU, GIL BOUYET Y BARBOSA, BO. BOQUERON, CABO ROJO. PR 00623

OWNER

CABO ROJO MUNICIPALITY

PROJECT

PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.

3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

REV.	DATE	DESCRIPTION	BY	CHK'D
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FILE

Dwg Name: 20230417_POBLADO DE BOQUERON.DWG
Drawn by: INGENIUM PROFESSIONAL GROUP
Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

Progress Print:

TITLE

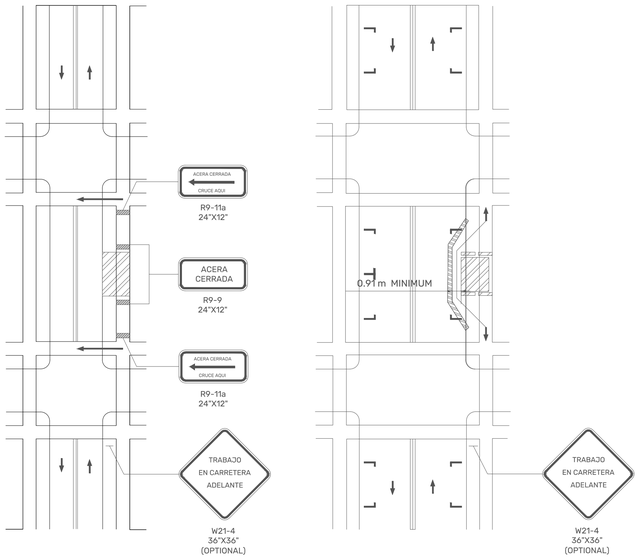
TRAFFIC GENERAL CONDITIONS FOR SECURITY PLAN

DRAWING No.

SI4.1

TRAFFIC GENERAL CONDITIONS FOR SEGURITY PLAN

SCALE: NOT TO SCALE



SIDEWALK DETOUR **SIDEWALK DIVERSION**

SIDEWALK DETOUR OR DIVERSION (TA-28)

STANDARD:

1- WHEN CROSSWALKS OR OTHER PEDESTRIAN FACILITIES ARE CLOSED OR RELOCATED, TEMPORARY FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.

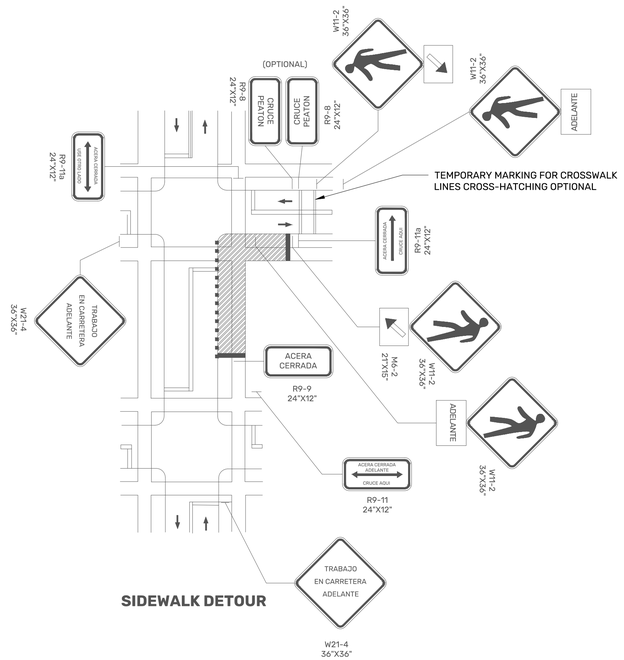
IMPORTANT NOTES:

1- CONTRACTOR MUST COMPLY WITH "MANUAL DE DISPOSITIVOS UNIFORMES PARA EL CONTROL DEL TRANSITO EN LAS VIAS PUBLICAS DE PUERTO RICO" AND TEMPORARY TRAFFIC CONTROL ZONE DEVICES (CHAPTER 6F) MOST RECENT EDITIONS AS REQUIRED BY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.

2- DURING THE CONSTRUCTION THE CONTRACTOR MUST ALWAYS PROVIDE FOR UNINTERRUPTED ONE-WAY TRANSIT OR AS INDICATED ACCORDING TO PHASEPLANS.

STANDARD NOTES:

THE NEEDS AND CONTROL OF ALL ROAD USERS (MOTORISTS, BICYCLISTS, AND PEDESTRIANS WITHIN THE HIGHWAY, INCLUDING PERSONS WITH DISABILITIES IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT OF 1990 (ADA), TITLE II, PARAGRAPH 35.130) THROUGH A TTC ZONE SHALL BE AN ESSENTIAL PART OF HIGHWAY CONSTRUCTION, UTILITY WORK, MAINTENANCE OPERATIONS, AND THE MANAGEMENT OF TRAFFIC INCIDENTS.



SIDEWALK DETOUR

CROSSWALK CLOSURES AND PEDESTRIAN DETOURS (TA-29)

NOTE:

FOR LONG-TERM STATIONARY WORK THE DOUGLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

NOTAS:

A- EL HORARIO DE TRABAJO DEBE SER FUERA DE LAS HORAS PICOS.

B- LOS ABANDERADOS DEBERAN TENER COMUNICACION Y VISIBILIDAD ENTRE ELLOS EN TODO MOMENTO.

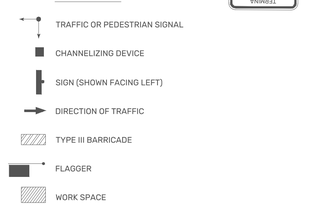
C- LOS ROTULOS TEMPOREROS ESTARAN EXPUESTOS SOLO CUANDO ESTOS APLIQUE.

D- NO DEBERAN DEJAR EXCAVACIONES ABIERTAS CUANDO EL CONTRATISTA NO ESTE TRABAJANDO. TODA EXCAVACION DEBERA SER TAPADA EL MISMO DIA.

E- EL CONTRATISTA DEBERA REPAVIMENTAR LOS CARRILES AFECTADOS INMEDIATAMENTE Y EL MARCADO DE PAVIMENTO DEBERA SER RESTABLECIDO SI ES AFECTADO.

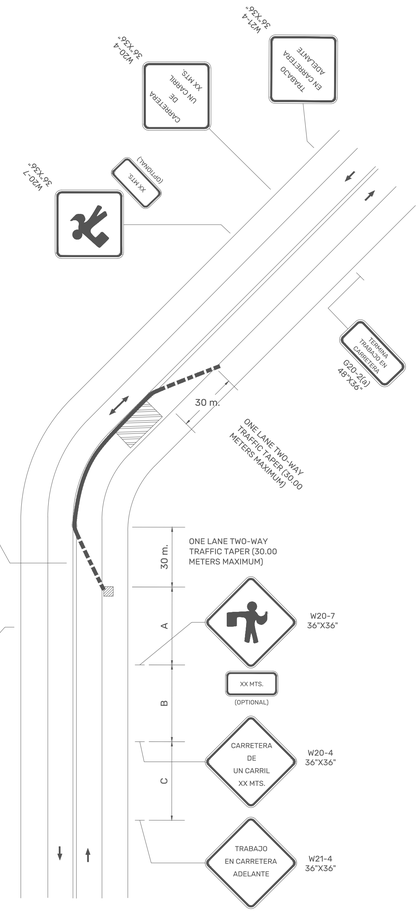
F- DE SER NECESARIO EL CIERRE DE ALGUNA CARRETERA SE DEBERA SOMETE UN AVISO AL PUBLICO PARA APROBACION DE ESTA OFICINA CON POR LO MENOS 20 DIAS DE ANTICIPACION.

G- SE TIEN QUE PERMITIR EL ACCESO A LAS RESIDENCIAS, COMERCIOS Y OTRA ESTRUCTURAS AFECTADAS POR LA CONSTRUCCION, EN TODO MOMENTO.





NOTE: THE BUFFER SPACE SHOULD BE EXTENDED SO THAT THE TWO-WAY TRAFFIC TAPER IS PLACED BEFORE A HORIZONTAL (OR CREST VERTICAL) CURVE TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGER AND A QUEUE OF STOPPED VEHICLES.



LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TA-10)

STANDARD:

1 -AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED, EXCEPT IN EMERGENCIES.

MENING OF LETTER CODES ON TYPICAL APPLICATION DIAGRAMS.

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBN (LOW SPEED)*	30 m	30 m	30 m
URBN (HIGH SPEED)*	100 m	100 m	100 m
RURAL	150 m	150 m	150 m
EXPRESSWAY/FREEWAY	300 m	450 m	800 m

* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY.

** DISTANCES ARE SHOWN IN METERS. THE COLUMN HEADINGS A, B, AND C ARE DIMENSIONS, THE "A" DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE "B" DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE "C" DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE THIRD SIGN IS THE FIRST ONE IN A THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TTC ZONE.)

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CABO ROJO MUNICIPALITY

PROJECT
PR-CRP-000847- REHABILITACION Y EMBELLECIMIENTO DEL POBLADO DE BOQUERON.

REGISTER No.
3 8 0 - 0 1 3 - 0 1 0 - 0 1

REVISIONS

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FILE
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Revised by: ING. WILLIAM MELENDEZ
Plot Scale: AS SHOWN
Progress Print:

TITLE
TRAFFIC GENERAL CONDITIONS FOR SECURITY PLAN

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TRAFFIC GENERAL CONDITIONS FOR SEGURITY PLAN

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Revised by: ING. WILLIAM MELENDEZ

Plot Scale: AS SHOWN

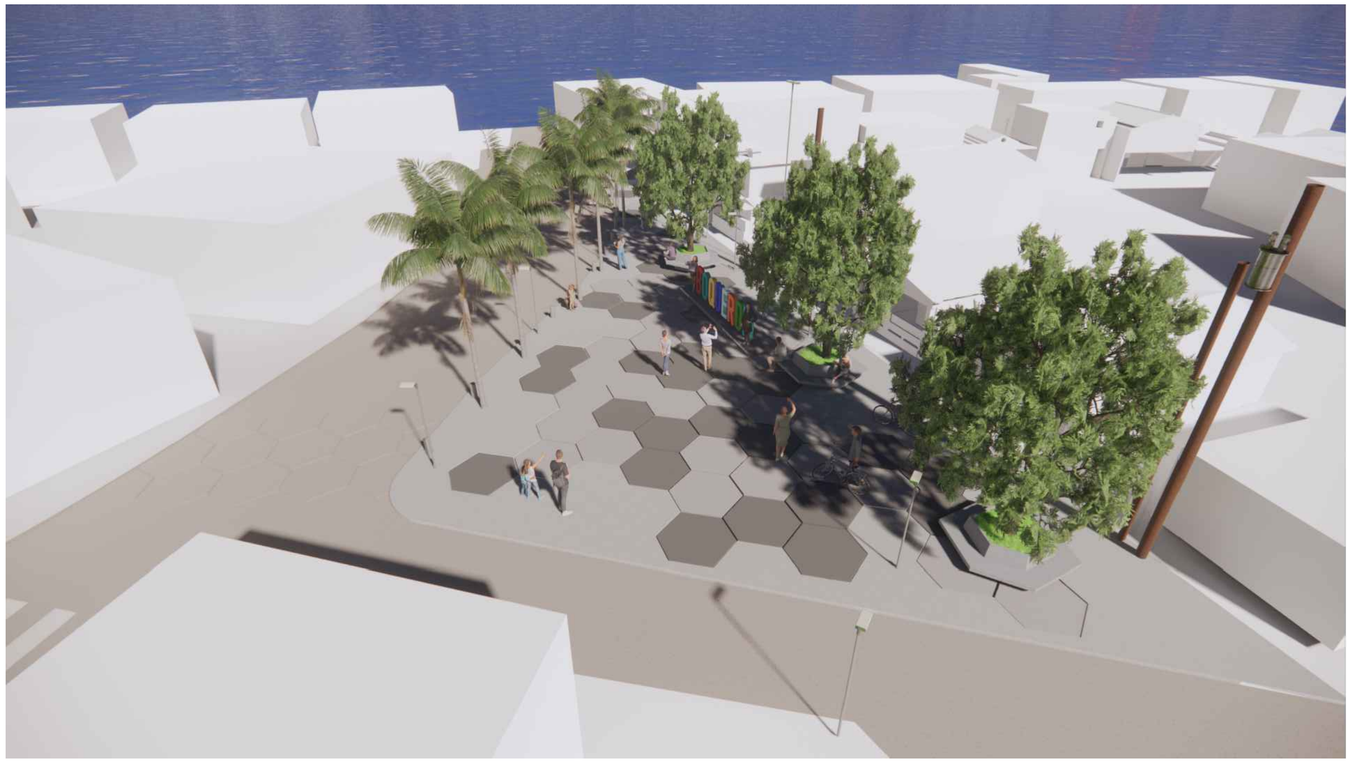
Progress Print:

TITLE

RENDERS

DRAWING No.

R-001





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RENDERS

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R-002