



**U.S. Department of Housing
and Urban Development**

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Washington,
DC 20410
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Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project Name: Estacionamiento Urbano – PR-CRP-000505

Responsible Entity: Puerto Rico Department of Housing **State/Local Identifier:** Puerto Rico

Preparer: José Alberto De La Rosa Reyes – Project Coordinator – Applied Engineering Group

Certifying Officer Name and Title:

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Priscilla Toro-Rivera - Permits and Environmental Compliance Specialist

Consultant (if applicable): Applied Engineering Group

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

Project Location: Parque Street, Bo. Pueblo Rincón, PR 00677

Coordinates: 18.340798º, -67.253325) Refer to Attachment 1 for Location Map.

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

The project involves the construction of a public parking lot, which will include the following components:

- The Municipality of Rincón is the owner of the solar equipment, therefore no acquisition is required.
- Preparation of the ground to ensure proper installation of asphalt pavement and concrete in all designated areas.
- Installation of bumper protectors and wheel stops.
- Construction of approximately 65 parking spaces.
- Installation of pavers and/or porous concrete at access entrances to ensure ADA compliance.
- Green Initiatives:
 - Landscaping improvements.
 - Installation of solar-powered lighting poles.
 - Protection and delimitation of an existing Ceiba tree within the parking lot area.
- Installation of signage as needed throughout the parking area.
- Construction of surface drainage infrastructure, including gutters and curbs, to ensure proper water flow.
- Construction of a vehicular entrance.
- Creation of rest areas, including a canopy with fixed furniture for user comfort.
- Development of an observation area near the "Ojo de Agua," located at a significant distance from the water source for safety and preservation purposes.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

In the aftermath of Hurricane Maria, many businesses and residences within the Urban Center of Rincón suffered extensive damage, leading to significant economic setbacks and the loss of jobs, particularly among low- and moderate-income residents. To foster economic revitalization, encourage the repopulation of the Urban Center, and support local employment opportunities, it is crucial to expand the existing "Ojo de Agua" public parking lot.

The selected site was chosen due to its proximity to the municipal urban core and to serve as an extension of the current parking infrastructure, ultimately facilitating easier access, boosting economic activity, and contributing to the overall resilience and development of the community.

Existing Conditions and Trends [24 CFR 58.40(a)]:

There is an existing parking and an undeveloped site. The proposed activity locates in urban land and it's classified as a residential touristic zone. The site integrates natural and built elements through preserved vegetation, stormwater management systems, and varied terrain. It is located outside the boundaries of the Traditional Urban Center

of Rincón surrounded by the Parque Rafael Rivera Romero to the north, residential properties in Bo. Pueblo to the south, residential properties on Progreso Street and Ojo de Agua Street, as well as Residencial Santa Rosa to the east, and Condominio Chalet del Mar and unoccupied land to the west. This space is being created to meet the need for people to have additional and accessible parking spaces within the community. If the proposed project is not implemented, the parking will not be improved to meet needs, safety, and accessibility requirements for the local community residents and visitors. Therefore, the no action alternative does not meet the purpose and need of the Project.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001;	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162,230.00
B-18-DP-72-0001;		
B-19-DP-78-0002;		
B-18-DE-72-0001		

Estimated Total HUD Funded Amount: \$1,261,470.14

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$1,261,470.14

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 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The closest civilian airport to the Project site is the Eugenio Maria de Hostos Airport (MAZ), located in Mayagüez, approximately 9.31 miles (49,084.8 feet) southwest of the project site. The nearest military airport is Luis Muñoz Marín International Airpor at 80.51 miles (425,350 feet) to the northeast of the project site. The project is not located within 15,000 feet of a military airport, or 2,500 feet of a civilian airport.

		The Project complies with Airport Hazard requirements. For further Information see Attachment 2.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the Coastal Barrier Resources System Mapper, the closest CBRS Unit is PR-75: Espinar, located approximately 7.7 miles (40,656 feet) northwest of the Project. The Project complies with Coastal Barrier Resources requirements. For further Information see Attachment 3.
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 <input type="checkbox"/> <input checked="" type="checkbox"/>	Per Floodplain Insurance Map 72000C0485J, effective date November 18, 2009, the entirety of the project site is located in flood Zone X, thus outside of all special flood hazard areas. The proposed project is not required to carry flood insurance. The Project complies with Flood Insurance requirements. For further Information see Attachment 4.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The site is within the Municipio of Rincón, which is in Attainment Area for all 6 NAAQS criteria pollutants. The nearest nonattainment municipality, Arecibo, which is in nonattainment for Lead (2008 standard), is 36.23 miles (191,316.23 feet) from the site. As such, the project is in compliance with Clean Air Act requirements. For further Information see Attachment 5A-B.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No <input checked="" type="checkbox"/> <input type="checkbox"/>	The proposed action is in the Municipality of Rincón, a coastal community. Portions of the project are located inside the PR Coastal Vulnerability area. The Puerto Rico Planning Board, during its meeting on July 24, 2024, issued a General Federal Consistency Certification under resolution JP-2024-004. This certification confirms the project's alignment with the Puerto Rico Coastal Management Program (PRCZMP) for initiatives financed through Federal funds under the CDBG-MIT programs. An Application for Certification of Consistency with the Puerto Rico Coastal Management Program was submitted to the Puerto Rico Planning Board. It was determined on November 25, 2024, that the project at reference won't have any negative impacts on the identified systems. Additionally, the wetland inside the project site will not be developed and it will be protected by including a buffer zone of five meters around all wetlands. The project site is not within Zone AE.

		<p>The Project complies with Coastal Zone Management requirements. For further information see attachment 6A-B.</p>
<p>Contamination and Toxic Substances</p> <p>24 CFR Part 50.3(i) & 58.5(i)(2)</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>According to the NEPAassist database, there are regulated sites within a 3,000-foot radius of the project site. However, a detailed analysis confirms that all these sites are either downstream from the project location or compliant with relevant regulations.</p> <p>A review of nearby regulated sites using the EPA tool ECHO identified five (5) sites within a 3,000-foot radius of the project site. These sites include SINGLE FAMILY RESIDENCE JOHANNA E. CAMACHO, PUERTO BAHIA RESIDENTIAL PROJECT, MR. ALBERTO SANCHEZ - RINCON, MDF Instruments Crafter LLC and Surgical Specialties Puerto Rico Inc. Although these sites are located downstream from our project site, we recognize the importance of considering their potential impact on local communities and the environment, especially since. Potential impacts of these nearby regulated sites were evaluated, considering factors such as pollution sources, emissions, and compliance information as well as distance to the project site. Based on distance from the project site and absence of a significant violation, it was determined that these sites will not impact the project.</p> <p>An inspection conducted on March 7, 2024, identified lead-based paint in two elements of the project site (a metal bench and a curb measuring approximately 3 linear feet), for which a mitigation plan will be implemented. On the same day, an Asbestos Containing Material (ACM) inspection was performed by Abraham Rodríguez, a DRNA/AHERA certified asbestos building inspector, following a modified ASTM E2356-18 protocol.</p> <p>In March 2024, Senior Biologist Elvin Roldan visited the site for the preparation of the wetland characterization report and Merymar Ortiz, representative of Applied Engineering Group. See report in Attachment 14B and site photos in Attachment 16. During the site visit, data was collected to support the Environmental Review Record (ERR) process, ensuring compliance with the National Environmental Policy Act (NEPA) and other applicable regulations. The key focus areas included identifying potential environmental impacts related to the</p>

		<p>location of the parking lot in areas that includes sensitive soil that needs to be properly treated. All visible evidence of previously developed area of residential, farming and natural, where observed. Overall, the gathered data indicates there was no evidence of hazardous materials, contamination, toxic chemicals or gases, or radioactive substances, as well as any storage tanks, drums, or other visible evidence of contamination. The inspection involved a visual assessment, and no suspected materials were found, resulting in no samples being collected.</p> <p>Since the proposed project does not involve a residence or mid- to long-term occupancy (greater than 4 hours a day) of employees or customers (e.g., office, school, hospitals, stores, etc.), radon exposure will not be a health issue. In conclusion, the project complies with the Contamination and Toxic Substances requirements. Refer to Attachment 7A, 7B, 7C & 7D.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>Consultation with the USFWS started on October 24, 2024. All the required documentation submitted to the agency is available in Attachment 8B. On January 2, 2025, a letter was issued in response to the informal consultation stating: "Using the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system, the PRDE has determined that the proposed project lies within the range of Puerto Rican boa (<i>Chilabothrus inornatus</i>) and West Indian manatee (<i>Trichechus manatus</i>).</p> <p>The Caribbean Determination Key (DKey) in the IPaC application was used to evaluate the potential impacts of the proposed project on federally listed species (Project code: 2024-0074858). Based on the answers provided, a concurrence letter was obtained for the Puerto Rican boa, which determined that the proposed actions for this project may affect but is not likely to adversely affect (NLAA) this species. The Service acknowledges receipt of the NLAA DKey concurrence letter for the Puerto Rican boa. Based on the nature of the project, scope of work, information available, and analysis of the area where the project will be developed, the PRDOH has determined that the proposed project would have no effect (NE) on the West Indian manatee</p>

		<p>since all work will be conducted inland. The Service acknowledges receipt of PRDOH's NE determination for the West Indian manatee. Currently, we do not have information to refute that determination. Because the PRDOH made a NE determination, the PRDOH is not required to conduct formal or informal Section 7 consultation with the Service, and the Service is not required to concur with PRDE's NE determination. With regard to the Fish and Wildlife Coordination Act, we recommend that to avoid impacts to Wetland 2 (as identified in the project documents) and as shown in the wetland assessment, the proposed project footprint should be changed to maintain the existing condition of the wetland. Parking spaces 27 through 30 should be converted to a buffer zone, green open space, or another feasible alternative that preserves the existing conditions of PEM1F. Also, sediment and erosion controls will be implemented to prevent sediment discharges and deposition during both construction phases and operation."</p> <p>Per these recommendations, the proposed design was re-designed to incorporate the determination. PRDOH, in a letter dated April 24, 2025, formally acknowledged receipt of the USFWS's recommendations, providing design plans implementing the changes to convert parking spaces 27 through 30 into a buffer zone and green open space. Additionally, a best sediment and erosion management practices will be implemented during construction and operation. The nearest critical habitat is approximately 17.1 miles (90,288 feet) from the project location. The project has been determined to May Affect, Not Likely to Adversely Affect the Puerto Rican boa, as confirmed by the USFWS through the Caribbean DKey concurrence letter issued on January 2, 2025. For the West Indian manatee, the project has been determined to have No Effect (NE) since all activities will occur on land, with no interaction with water bodies.</p> <p>If a Puerto Rican boa is encountered during work, operations will immediately cease until the boa safely moves off-site. If the boa does not relocate on its own, the Puerto Rico Department of Natural and Environmental Resources (PRDRNA) Rangers</p>
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		<p>will be notified to ensure its safe capture and relocation, following the USFWS Puerto Rican Boa Conservation Measures guidelines.</p> <p>Therefore, the project complies with Endangered Species Act requirements.</p> <p>Refer to Attachment 8A & 8B.</p>
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage facilities. Planned activities in the project area do not include installation of storage tanks. The project would not introduce new residents and would not involve an increase in employees or clients. Based on the examination of aerial and street views, it has been confirmed that there are no aboveground storage tanks within the acceptable separation distance.</p> <p>The Project is in compliance with Explosive and Flammable Hazards requirements. For further information refer to Attachment 9.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>Th proposed project is located , the land's classification as residential within an urban area permits the construction of a parking lot facility, provided it adheres to the design requirements of governing agencies. Additionally, per the Puerto Rico Planning Board's – terrain use map the project site falls under urban land. Based on these factors, the project complies with Farmland Protection requirements. For further information refer to Attachment 10A-B.</p>
<p>Floodplain Management</p> <p>Executive Order 24 CFR Part 55</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>The proposed project is located in combined floodplain zones per FEMA's Advisory Baseline Flood Elevations Map, revised 12/11/2018, https://gis-r2-fema.hub.arcgis.com/.</p> <p>The 8-Step Decision-Making Process was performed. The Step 2 Early public notice was published on local newspaper "Primera Hora" on September 3, 2024, the fifteen days were allowed, and no comments were received. It was determined that there is no practical alternative locating the project outside of floodplain and wetland due to the necessities of expanding the existing public parking lot. Impacts to the wetland will be minimized due to the project will be designed to include a buffer zone of at least five (5) meter wide around the wetland and utilize native plant species for landscaping. Construction techniques</p>

		<p>will include erosion control measures, stormwater management practices, and the use of sustainable materials. These strategies collectively aim to reduce the project's negative impact on the environment and promote sustainability. The Step 7 Final Notice was published on local newspaper "Primera Hora" on May 16, 2025, no comments were received.</p> <p>This project is in compliance with Floodplain Management requirements, particularly Executive Order 11988, 24 CFR Part 55.</p> <p>Refer to Attachment 11A, 11B & 11C.</p>
<p>Historic Preservation</p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The information and documentation collection commenced in August 2024, consultation process began after and it was submitted to PRSHPO on 06/12/2025. On 06/27/2025, the Puerto Rico State Historic Preservation Office issued a written communication concurring with a determination of no adverse effect upon the historic properties provided that should the Agency discover other historic properties at any point during project implementation, it should notify the SHPO immediately. The project is in compliance with National Historic Preservation Act requirements. Refer to Attachment 12.</p>
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project does not involve establishment of new residences, an increase in residents, or introduction of other noise sensitive uses. The project does not require further evaluation under HUD's noise regulation. The noise that will be produced during construction is generated by the operation of construction equipment. All equipment and machinery will have noise dampers maintained in accordance with manufacturer's recommendations to control noise generation. Construction activities will be carried out during the day and have minimal impacts on the neighboring community. The noise levels attributable to construction activities will be temporary in nature and is not expected to exceed 65 dBA. Therefore, the project complies with Noise Abatement and Control requirements.</p>
<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>There are no EPA sole source aquifers in Puerto Rico. Furthermore, the project consists of activities that are unlikely to have an adverse impact on groundwater resources. Nearest EPA sole aquifers</p>

		<p>is located at Florida, at more than 900 miles (4,752,000 feet) approximately. The project follows Sole Source Aquifer requirements. Refer to Attachment 13.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>The proposed project includes is a minor portion of 0.31 acres of emergent wetland as shown in the NWI Wetland Mapper at https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. The 8-Step Decision-Making Process was performed. The Step 2 Early public notice was published on local newspaper “Primera Hora” on September 3, 2024, the fifteen days were allowed, and no comments were received. It was determined that there is no practical alternative locating the project outside of floodplain and wetland due to the necessities of expanding the existing public parking lot. While the proposed project includes is a minor portion of Ojo de Agua emergent wetland, measures will be implemented to preserve the environment in its current state. Impacts to the wetland due to the proposed project will be minimized by designing a buffer zone of at least five (5) meter wide around the wetland and utilize native plant species for landscaping. Construction techniques will include erosion control measures, stormwater management practices, and the use of sustainable materials. These strategies collectively aim to reduce the project's negative impact on the environment and promote sustainability. The Step 7 Final Notice was published on local newspaper “Primera Hora” on May 16, 2025, no comments were received.</p> <p>The project is in compliance with Executive Order 11990, particularly sections 2 and 5, for the protection of wetlands. Refer to Attachment 14A & 14B.</p>
<p>Wild and Scenic Rivers</p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>Puerto Rico has only three Wild and Scenic Rivers (Rfo Mameyes, Rfo Icacos and Rfo De La Mina), located on the east side of Puerto Rico. The proposed Project is located on the west coast of Puerto Rico, approximately 96 miles (506,880 feet) west of said rivers. There would be no impact to Wild and Scenic Rivers. Therefore, the Project follows Wild and Scenic Rivers requirements. Refer to Attachment 15.</p>

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source

documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. All conditions, attenuation or mitigation measures have been clearly identified.

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	1	The project site encompasses approximately 1.7 acres of land situated within urban land in a tourist zone. The proposed development will conform to local land use plans by providing additional parking, thereby enhancing infrastructure within the developed area of the municipality of Rincón. It is compatible with existing land use and zoning regulations, with new structures designed to meet agency requirements. The project will integrate well with the surrounding environment; its size, design, materials, and placement will be consistent with the existing parking facilities, ensuring a cohesive and appropriate redevelopment of the site.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The soil characteristics support the requirements for the proposed land use. According to the plan, new structures will be built, and existing slopes will be modified to facilitate the construction of the parking lot. A superficial drainage system will be installed to ensure proper flow of rainwater. Although there is no current evidence of erosion or sediment accumulation on the site, an erosion control plan will be implemented during the construction phase to prevent any potential issues.

Hazards and Nuisances including Site Safety and Noise	2	The project located in an urbanized area would involve demolition, and construction that will be addressed in accordance with regulations and standard BMPs. Once constructed, would not create additional hazards or nuisances, or safety or noise issues. During construction, communication with the community is recommended, and neighboring residents will be provided with advance notice of the construction period to facilitate awareness and minimize potential disruptions.
Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	As the proposed project involves constructing a public parking lot, it will generate increased temporary employment opportunities during the construction phase. However, it will not result in significant long-term employment or income changes once the project is completed, as it primarily serves as infrastructure improvement.
Demographic Character Changes, Displacement	2	The proposed project would not result in demographic character changes or displacement. Due to the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project. The proposed project will have a limited construction timeframe and would not likely impact the physical dimensions of the community.
Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	According to the scope of work, the proposed new parking area will be developed on a vacant solar site by expanding an existing parking lot. The project is not expected to impact educational or cultural facilities, as it will not contribute to an increased student population or place additional strain on local schools. Additionally, it will not generate any issues related to cultural or community facilities.
Commercial Facilities	1	Since the project involves the construction of an expansion of an existing public parking lot, it is expected to provide economic benefits by increasing parking capacity within the urban area of the municipality of Rincon. This enhancement is likely to support local commerce by improving accessibility for residents and visitors. Additionally, the project is not anticipated to negatively affect any existing commercial facilities.

Health Care and Social Services	2	The proposed activity would not increase demand for health care and social services facilities within the community.
Solid Waste Disposal/ Recycling	2	The activities would generate solid waste (i.e., construction debris). Project-wide salvaging/recycling of materials would occur as determined feasible with other program requirements. All other materials would be taken to the appropriate landfills. A solid waste management plan would be developed and implemented to ensure that all potentially hazardous solid waste is handled properly, and that daily capacities of landfills and other solid waste facilities are not exceeded. During the operation of the proposed activity will have available trash bins and recycling bins at different locations that will be collected by the municipality service.
Wastewater/ Sanitary Sewers	2	The project proposal doesn't require a wastewater / sanitary sewer due to there won't be any bathroom's construction. The project will be completed in compliance with the current building code.
Water Supply	2	Per the project scope, there is no need to provide water supply or the parking lot. The project will be completed in compliance with the current building code.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project would not increase the area population and so demand for police, fire, and emergency medical services in the community would not increase. Services at the project site would be provided by the existing community police, fire, and emergency medical services.
Parks, Open Space and Recreation	2	Since the project involves constructing an expansion of an existing public parking lot, it will provide additional parking spaces for residents and visitors, facilitating access to the urban center of the municipality of Rincón.
Transportation and Accessibility	1	As an expansion of an existing public parking lot, the project will help meet the growing demand for additional parking spaces. Additionally, the design will incorporate ADA-compliant parking spots to ensure accessibility for individuals with disabilities.
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	While the proposed project includes a minor portion of Ojo de Agua emergent wetland, measures will be implemented to preserve the environment in its current state. Impacts to the wetland due to the proposed project will be minimized by designing a buffer zone of at least five (5) meter wide around

		the wetland and utilize native plant species for landscaping. Construction techniques will include erosion control measures, stormwater management practices, and the use of sustainable materials. These strategies collectively aim to reduce the project's negative impact on the environment and promote sustainability.
Vegetation, Wildlife	2	The project will incorporate landscaping using native vegetation to ensure compatibility with the local environment. This approach will help protect local wildlife and maintain the community's characteristic landscape.
Other Factors	2	There are no other factors to consider for this project.
ENERGY		
Energy Efficiency	1	The proposed activity includes installation of solar lighting resulting in energy efficiency for the municipality of Rincón.

Additional Studies Performed:

Asbestos-Containing Materials and Lead base paint Assessment (Attachment 7D).

Wetland Characterization (Attachment 14B).

Field Inspection (Date and completed by):

Asbestos-Containing Materials inspection on March 7, 2024, by Abraham Rodríguez, AES International representative. See Attachment 7D.

Lead-Based Paint inspection on March 7, 2024, by Abraham Rodríguez, AES International representative. See Attachment 7D.

In March 2024, Senior Biologist Elvin Roldan visited the site for the preparation of the wetland characterization report and Merymar Ortiz, representative of Applied Engineering Group. See report in Attachment 14B and site photos in Attachment 16. During the site visit, data was collected to support the Environmental Review Record (ERR) process, ensuring compliance with the National Environmental Policy Act (NEPA) and other applicable regulations. The key focus areas included identifying potential environmental impacts related to the location of the parking lot in areas that includes sensitive soil that needs to be properly treated.

All visible evidence of previously developed area of residential, farming and natural, where observed.

Overall, the gathered data indicates the following:

The main environmental feature onsite is the presence of an emergent freshwater wetland designated as PEMIF, as identified by the National Wetlands Inventory (NWI).

The overall condition of this feature was noted for determining if proper BMPs are being placed to minimize further loss and further impact to existing natural condition of this area. Also the USDA's web soil survey was checked to document soil type found in project Area.

Additional Site characteristics include:

- There was no evidence of hazardous materials, contamination, toxic chemicals or gases, or radioactive substances, as well as any storage tanks, drums, or other visible evidence of contamination.
- The project does not have a direct impact with any endangered species; however the project implemented and has incorporated as part of the environmental process recommendations given by USFWS including erosion and sediment controls to prevent sediment discharges during construction, also 4 parking spots will be transformed to a natural area buffer; This to further mitigate the project.
- A rain ditch crosses the project's area. Based on the data collected, the gathered data confirmed that the proposed project qualifies for a categorical exclusion, as it does not involve activities that could significantly alter the physical or environmental landscape."
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List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

U.S. Fish and Wildlife Service (USFWS)

- Consultation regarding potential impacts on the Puerto Rican Boa (*Chilabothrus inornatus*) and the West Indian Manatee (*Trichechus manatus*).
- Date of Consultation: January 2, 2025
- Contact: Lourdes Mena, Field Supervisor, USFWS Caribbean Ecological Services Field Office

Puerto Rico Department of Natural and Environmental Resources (PRDNER)

- Consultation regarding environmental impact assessments, species conservation measures, and wetland preservation.
- Contact: PRDNER

Rangers Puerto Rico

Planning Board (PRPB)

- Issuance of Federal Consistency Certification under the Puerto Rico Coastal Management Program (PRCZMP).
- Date of Certification: July 24, 2024
- Contact: Luis E. Lamboy Torres, Director, Geology and

Hydrogeology Office Puerto Rico Department of Housing (PRDOH)

- Coordination regarding project scope, community benefits, and alignment with recovery efforts post-Hurricane Maria. Contact: Eng. Aldo A. Rivera Vázquez, Director, Program Management Recovery Office
- U.S. Department of Housing and Urban Development (HUD)
- Review and approval of funding and compliance with CDBG-DR and CDBG-MIT regulations.

- Contact: HUD Representatives Public Stakeholders
- Public notices and outreach efforts regarding the project's potential impacts, benefits, and opportunities for community feedback.
- Contact: Local residents and businesses within the municipality of Rincón State Historic Preservation Officer (SHPO)
- Consultation regarding potential impacts to cultural and historic resources within the project area.
- Contact: SHPO, Puerto Rico

List of Permits Obtained:

None

Public Outreach [24 CFR 50.23 & 58.43]:

Public outreach for the PR-CRP-000505 project, conducted in accordance with 24 CFR 50.23 and 58.43, was integrated into the 8-step decision-making process due to the project's location within the 0.2% annual probability flood zone and presence of wetlands. This process promoted transparency and community engagement by evaluating potential risks, exploring practicable alternatives, and implementing mitigation measures to reduce adverse impacts. Public notices were issued to inform stakeholders about the project's scope, expected effects, and protective actions, such as maintaining a minimum five-meter buffer zone around wetlands and complying with floodplain management standards. Feedback received from the public was incorporated into the decision-making process, ensuring that the project aligned with community needs and environmental preservation objectives.

Cumulative Impact Analysis [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The repair and improvements to the existing public space area would not change the land use of the spaces or the adjoining parcels. A slight increase in use of the spaces would result from their restoration and improvement.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

As required by 24 CFR 58.40(e) and 40 CFR 1508.9, alternatives to the proposed project were thoroughly evaluated. The "no action" alternative was considered, which would entail no expansion of the existing parking lot. However, this option would fail to address the growing demand for public parking in the urban developed zone, limiting accessibility and hindering economic growth in the area. Other potential locations were also assessed but deemed less practical due to their distance from the urban core and inadequate infrastructure. The proposed site, adjacent to the current parking facility, is the most suitable, offering additional parking capacity in a strategic location that supports urban development while minimizing environmental and economic disruptions. The project incorporates green initiatives and ensures wetland preservation, making it the most viable and beneficial alternative for the community.

No Action Alternative [24 CFR 58.40(e)]:

Under the No Action Alternative, as mandated by 24 CFR 58.40(e), the expansion of the parking lot in Rincón would not proceed. Consequently, the urgent need to increase parking capacity in the urban zone would remain unfulfilled, leading to ongoing congestion, reduced accessibility for residents and visitors, and missed opportunities for local economic revitalization. This inaction would also impede the municipality's ability to provide improved infrastructure to meet the demands of recovery and redevelopment efforts following Hurricane Maria. Therefore, the No Action Alternative does not adequately address community needs or align with sustainable development objectives.

Summary of Findings and Conclusions:

In summary, the proposed project is not expected to generate significant negative environmental impacts and is anticipated to offer substantial benefits, particularly for local commerce, by expanding safe public parking options within Rincón’s urban center. The project design incorporates measures to mitigate environmental concerns, including wetland preservation with buffer zones, protections for local wildlife, and adherence to floodplain management and green infrastructure best practices. By addressing the increasing parking demand in a strategic location, the project will improve accessibility, bolster economic development, and support the overall revitalization of the area.

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
Endangered Species	Conservation measures for the Puerto Rican Boa need to be implemented if the Boa is encountered during construction.
Coastal Zone Management	All construction activities will adhere to the guidelines established by the Puerto Rico Coastal Management Program (PRCZMP) and comply with the Federal Consistency Certification issued by the Puerto Rico Planning Board. During construction, debris will be promptly collected and properly disposed of to prevent any adverse impacts on nearby coastal resources and habitats. Additionally, Best Management Practices (BMPs), such as the installation of erosion control barriers and regular monitoring of construction activities, will be implemented to prevent sedimentation and debris from entering surrounding areas.

Contamination and Toxic Substances	Lead-based paint removal will be carried out in accordance with the requirements and guidelines set by local agencies before construction begins.
Floodplain Management	Mitigation measures will be implemented to minimize adverse impacts, including confining construction activities to previously developed areas and employing design strategies that limit soil disturbance. Additionally, green infrastructure will be used to effectively manage stormwater and enhance the resilience of the floodplain. A Stormwater Pollution Prevention Plan (SWPPP), incorporating Best Management Practices (BMPs), will be prepared to control runoff and sedimentation during construction.
Wetlands Protection	A protective buffer zone of at least 5 meters will be established around all wetlands within the project site, in accordance with recommendations from senior biologists and the U.S. Fish and Wildlife Service (USFWS) consultation guidelines. This buffer will remain undisturbed, with implemented measures to prevent encroachment during construction. Additionally, a Stormwater Pollution Prevention Plan (SWPPP) will be developed, incorporating Best Management Practices (BMPs) to minimize surface runoff, ponding, and sedimentation in receiving waterways throughout construction activities

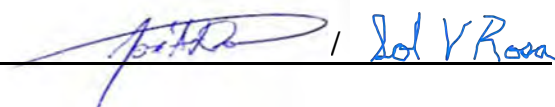
Determination:

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.

Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature:  / Sol V Rosa Date: September 2, 2025

Name/Title/Organization: Jose De La Rosa Reyes/Applied Engineering Group
Sol V Rosa / Env Reviewer / Tetrattech

Certifying Officer Signature: _____ Date: September 11, 2025

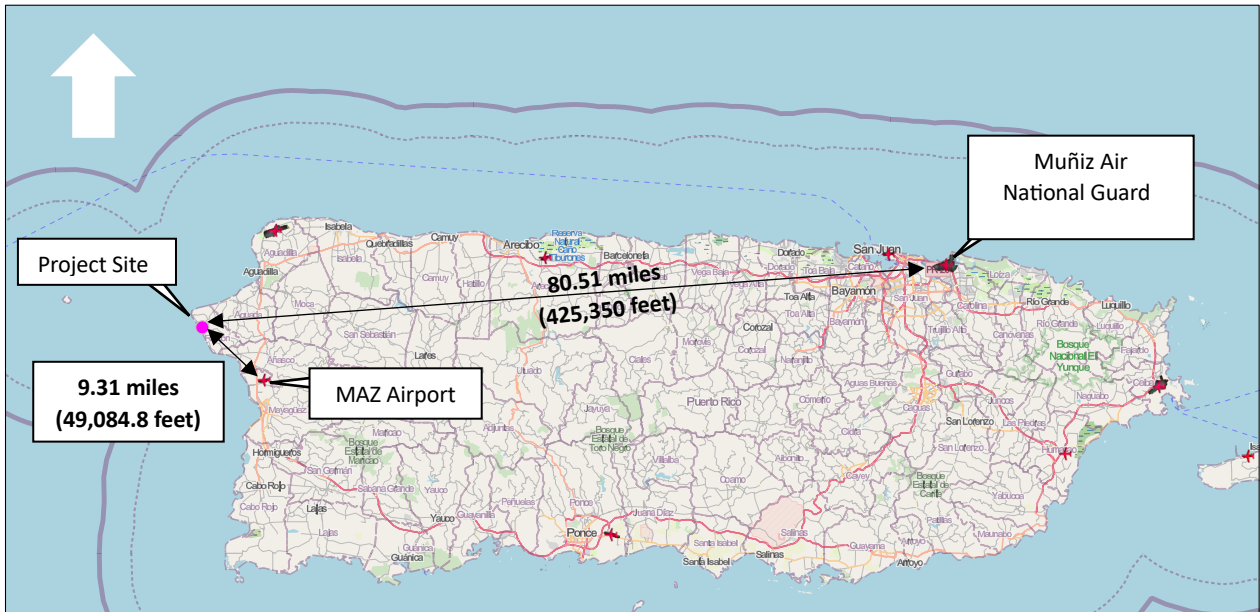
Name/Title: Mónica M. Machuca Ríos / Permits and Environmental Compliance Specialist

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

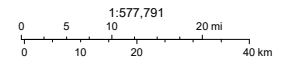
1	Project Map Area
2	Airport Hazards Map
3	Coastal Barrier Resources Map
4	Flood Insurance Rate Map
5	Clean Air: 5A non-attainment area map 5B Greenbook Data
6	Coastal Zone: 6A Map 6B Supporting Documentation
7	Contamination and Toxic Substances: 7A Toxics map with 3,000ft buffer 7B Toxic Summary Table 7C Echo reports 7D Lead-based paint and asbestos report
8	8A Critical Habitat Map 8B USFWS Consultation Package & Determination
9	Explosive and Flammables Hazards Map
10	Farmland Classification: 10A PR Planning Board Terrain Use Map 10B USDA Web Soil Survey Map
11	Floodplain Management 11A FEMA Flood Insurance Rate MAP 11B FEMA Advisory Base Flood Elevation Map 11C Eight (8) Step Process
12	Historic Preservation SHPO Documentation
13	Sole Source Aquifers Map
14	Wetlands 14A Map 14B Wetlands Characterization Report
15	Wild & Scenic Rivers Map
16	Photos of Site Conditions

Airports Hazards



June 24, 2025

- Project 2
- Project 1
- ★ Airport Points
- Airport Polygons



Map data © OpenStreetMap contributors, Microsoft, Facebook, Google, Esri, Community Maps contributors, Map layer by Esri, EPA OEI

Attachment 2: Airport Hazards

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Nepa Assist Tool

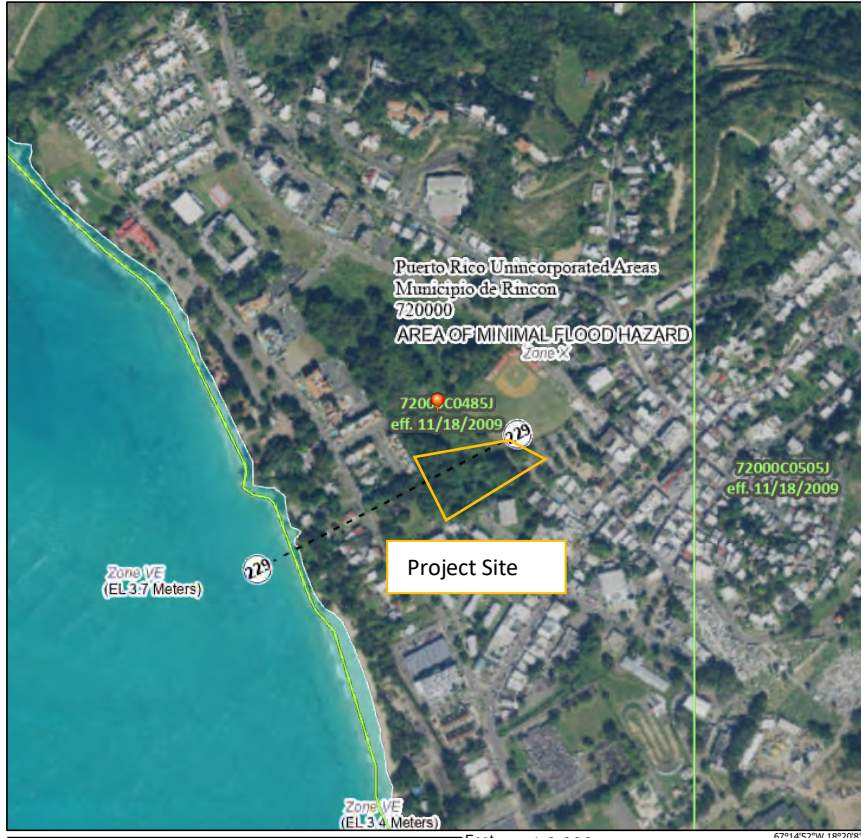
Website: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx>

Author: Applied Engineering Group

National Flood Hazard Layer FIRMette



67°15'30"W 18°20'42"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) <i>Zone A, X, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
OTHER AREAS		Area with Flood Risk due to Levee <i>Zone D</i>
		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
MAP PANELS		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped
		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 12/27/2023 at 8:26 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.

Attachment 4: Flood Insurance

Project: Estacionamiento Urbano (PR-CRP-000505)

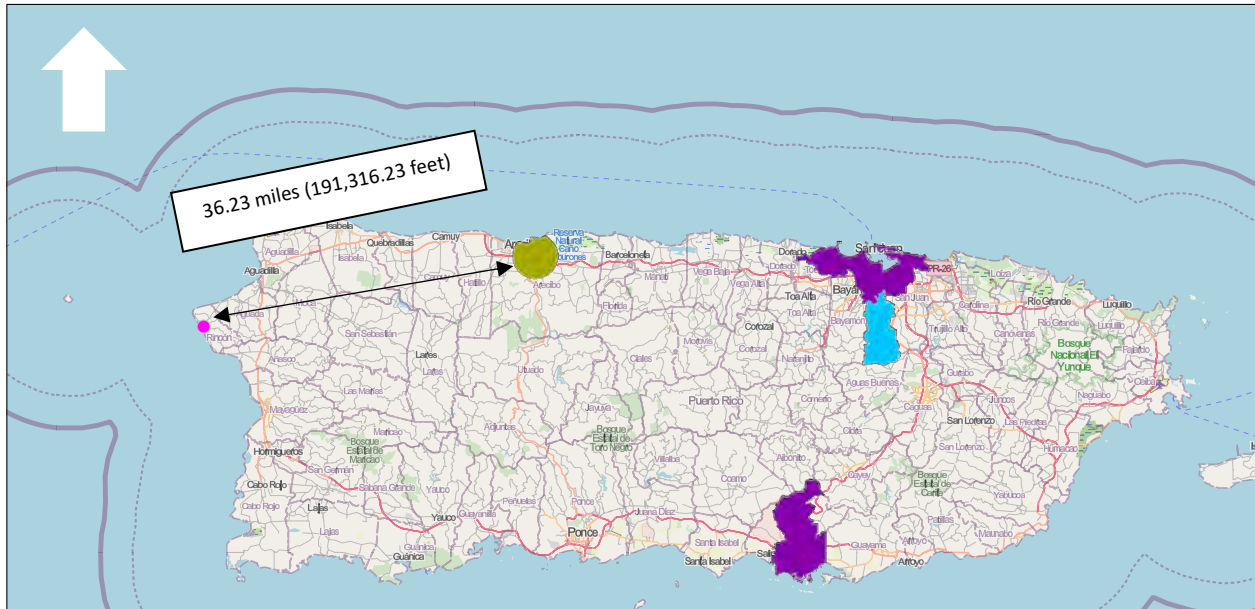
Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: FEMA Flood Map Services Center

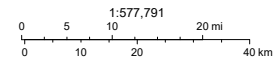
Website: <https://msc.fema.gov/portal/home>

Author: Applied Engineering Group

Non-Attainment Counties



June 24, 2025



Map data © OpenStreetMap contributors, Microsoft, Facebook, Google, Esri Community Maps contributors, Map layer by Esri, U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS)

Attachment 5A: Distance to Non-attainment County Map

Project: Estacionamiento Urbano (PR-CRP-000505)

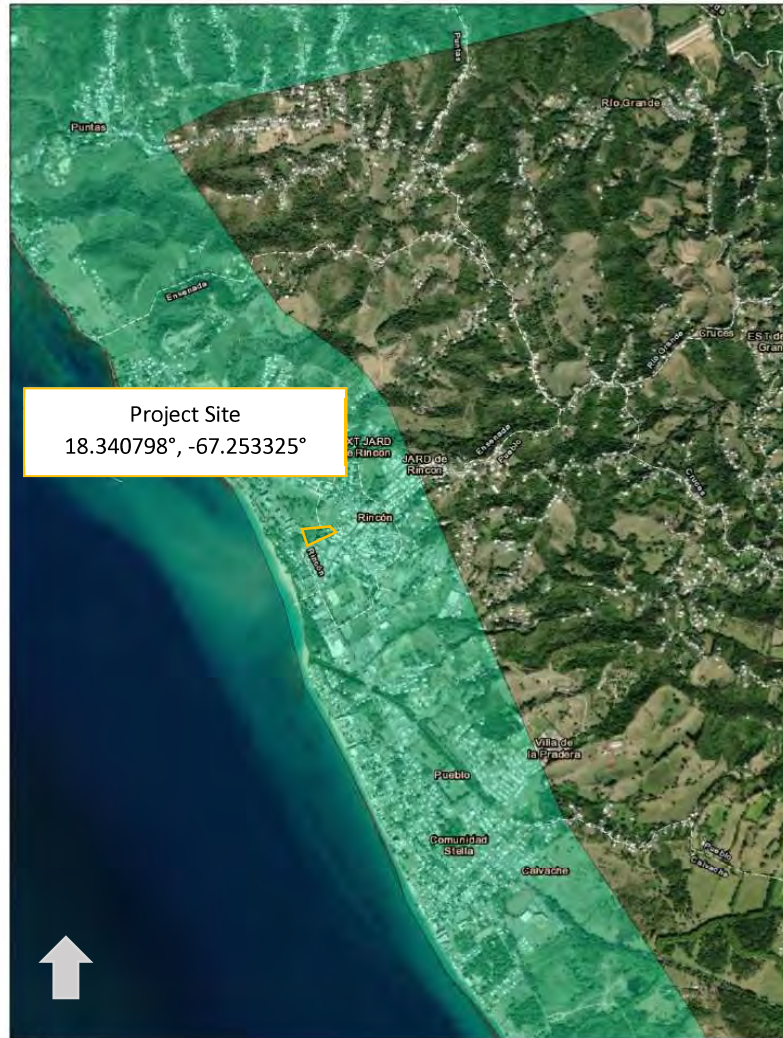
Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Nepa Assist Tool

Website: <https://nepassisttool.epa.gov/nepassist/nepamap.aspx>

Author: Applied Engineering Group

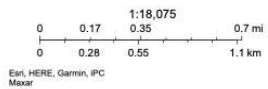
Puerto Rico Coastal Vulnerability Viewer



12/29/2023

Legend:

 Project Site



Attachment 6A: Coastal Zone

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Puerto Rico Coastal Vulnerability Viewer

Website: [Puerto Rico Coastal Vulnerability Viewer \(arcgis.com\)](https://arcgis.com)

Author: Applied Engineering Group

Attachment 6B Supporting Documentation for Coastal Zone



GOVERNMENT OF PUERTO RICO

PUERTO RICO PLANNING BOARD

November 25, 2024

Eng. Aldo A. Rivera Vázquez

Director from Program Management Recovery
Office (PRDOH)
PR Department of Housing
PO Box 21365
San Juan, Puerto Rico, 00928-1365

Federal Consistency Certification
Federal Assistance with CDBG funds from the
City Revitalization Program (CRP)
CZ-2024-0522-174 / PR-CRP-000505
Cadastral Number: 124-000-005-38
Urban Parking
Ensenada Ward, Rincón

Dear Engineer Rivera:

The Puerto Rico Department of Housing submitted the application of reference to obtain federal assistance from the CDBG-DR funds through the City Revitalization Program. As a result of Hurricane Maria, businesses and homes located in the Downtown area suffered damage, including the loss of jobs, mainly among low- and moderate-income people. To encourage the repopulation of the Downtown area and promote economic development in the area to create new jobs, it is necessary to expand the urban parking lot in Ojo de Agua.

It involves the expansion of an existing parking lot in the urban area known as "Ojo de Agua" and the construction of approximately 100 parking units, green initiatives such as landscaping works, installation of solar lighting poles, installation of signs accordingly, construction of a drainage system, some rest area (construction of a "canopy" with fixed furniture), and an area to observe the "Ojo de agua" (that will be substantially distant), among others improvements that not impact this site and the channel, while highlighting its naturalness and helping to preserve it.



The Project won't have any negative impacts on the identified systems. Additionally, the wetland inside the project site will not be developed and it will be protected by including a buffer zone of five meters around all wetlands. The project site is not within Zone AE

The proposed project is in Parque Street PR-413 KM HM 0.7 Int.; Ensenada Ward, in the municipality of Rincón.

The Puerto Rico Planning Board in its meeting of *July 24, 2024*; emitted a General Federal Consistency Certification with the Puerto Rico Coastal Management Program (PRCZMP), under resolution **JP-2024-004** for projects to be financed with Federal funds under the CDBG-MIT programs.

The section D of this resolution establishes that Federal assistance awarded under CDBG-DR and CDBG-MIT programs for infrastructure projects (sidewalks, roads, highways, services lines, public squares) projects, are **consistent** with the PRCZMP.

This determination does not preclude the possibility of the need to obtain any other permit or endorsement from other Commonwealth or Federal Agencies. Thanks for your cooperation with our Program. If you have any questions concerning this matter, please contact Maryguel Fuentes at 787-723-6200 ext. 16017 or her e-mail address: fuentes_m@jp.pr.gov.

Cordially,



Luis E. Lamboy Torres

Director

Geology and Hydrogeology Office

c: Department of Housing, environmentalcdbg@vivienda.pr.gov
Mrs. Leilani González Negrón, MBA, legonzalez@vivienda.pr.gov

MFL/



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:	<input type="checkbox"/> Objection <input type="checkbox"/> Acceptance <input type="checkbox"/> Negotiation
Technician: _____	Supervisor: _____
Comments: _____	

1. Name of Federal Agency: Puerto Rico Department of Housing (Responsible Entity)
2. Federal Program Catalog Number: 14.218 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 (PRDOH)
5. Postal Address: PO Box 21365, San Juan, PR 00928-1365
Telephone: 787-274-2527 Fax: N/A
6. Project name: Estacionamiento Urbano (PR-CRP-000505)
7. Physical Description of Project Location (area, facilities such as vehicular access, drainage, storm and sanitary sewer placement, etc.):

There is an existing parking lot and an undeveloped lot to be used for incrementing parkings for the community.

Lambert Coordinates: X = 113327.5900 Y = 256360.7635

8. Type of construction or other work proposed:

- drainage channeling landfill sand extraction
 pier bridge residential tourist
 others (specify and explain): Parking pavement and drainage system

Description of proposed work:

The project consists of the construction of a parking lot that will include the following: preparation of the ground to carry out a correct installation of asphalt pavement and concrete in all required areas, installation of bumper protectors/wheel stops, construction of approximately 72 parking units (ADA compliance units and motorcycle units), form pavers and/or porous concrete at access entrances (ADA compliance), green initiatives such as landscaping works, installation of solar lighting poles, inside the existing parking lot, there is a tree (Ceiba) which will be protected and delimited, installation of signs accordingly, construction of a drainage system, construction of an entrance, construction of some rest area (construction of a "canopy" with fixed furniture), construction of an area to observe the "Ojo de agua" (the observation area will be substantially distant from the "ojo de agua").

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

Place an X opposite any of the systems indicated below that are in the project area or its surroundings, which are likely to be affected by that activity. Indicate the distance from the project to any outside system that would likely be affected.

System	Within Project	Outside Project	Distance (meters)	Local name of affected system
beach, dunes		X	175	Balneario de Rincón
marshes	X		Inside	Caño Ojo de Agua, wetland
coral, reefs		X	1,700	Tres Palmas
river, estuary		X	800	Quebrada Los Ramos
bird sanctuary		X	40,571	Refugio Nacional de Vida Silvestre (Boquerón)
pond, lake, lagoon		X	23,000	Laguna Joyuda
agricultural unit		X	17,000	Estación agrícola experimental TARS
forest, wood		X	33,000	Bosque Estatal de Maricao

cliff, breakwater	X	3000	El Faro de Rincón
cultural or tourist area	X	3000	El Faro de Rincón
other (explain)	X	70	Zone AE

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

Positive

Negative

Explain: The Project won't have any negative impacts on the identified systems. The Project will have in place a mitigation plan that guarantees the conservation of the natural resources that are close to the project. additionally the wetland inside the project site will not be developed and it will be protected by including a buffer zone of five meters around all wetlands. In addition, the project site is not within Zone AE.

-3-

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b. Regulation and Permits Administration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2024-53849-PLC-300130 2024-53849-SRA-300097 2024-53849-DEC-302564
c. Environmental Quality Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d. Department of Natural Resources	<input type="checkbox"/>	<input type="checkbox"/>		_____
e. State Historic Preservation Office	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
f. U.S. Army Corps of Engineers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
g. U.S. Coast Guard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
h. Other (s) (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

CERTIFICATION

I CERTIFY THAT Estacionamiento Urbano (PR-CRP-000505) is consistent with the Puerto Rico Coastal Zone Management Program, and that to the best of my knowledge the above information is true.

Aldo A. Rivera-Vázquez, PE

Name (legible)

Director for Program Management,
Disaster Recovery Office, PRDOH

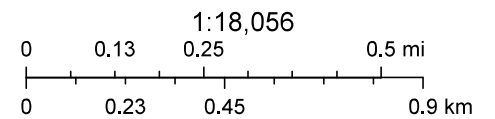
Position



Signature

5/22/2024

Date



Copyright:© 2013 National Geographic Society, i-cubed

4/25/2024

<https://apps.nationalmap.gov/viewer/>

USGS
2021 USGS

National Flood Hazard Layer FIRMMette



Legend Parque Street, Rincón, PR 00677

67°15'31"W 18°20'44"N

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

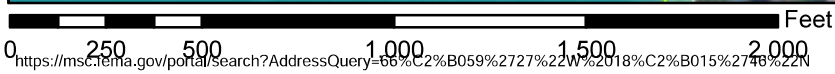
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

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 **5/17/2024 at 12:00 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.



1:6,000

67°14'53"W 18°20'10"N

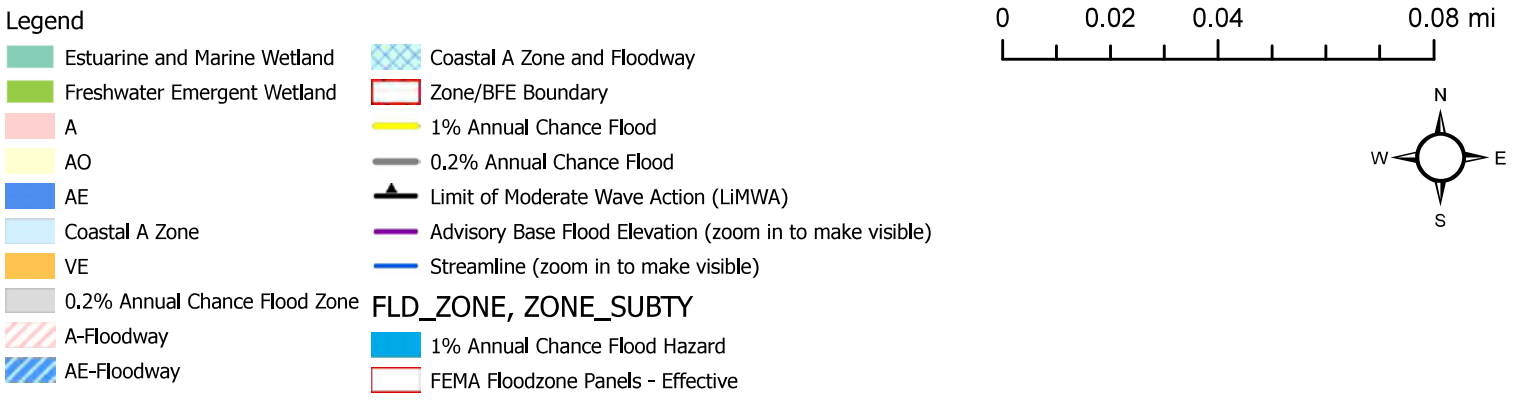
<https://msc.fema.gov/portal/search?AddressQuery=66%C2%B059%2727%22W%2018%C2%B015%2746%22N>



ABFE & Wetland Map PR-CRP-000505 Estacionamiento Urbano

Parque Street, Rincón, PR 00677
Coordinates 18.340798, -67.253325

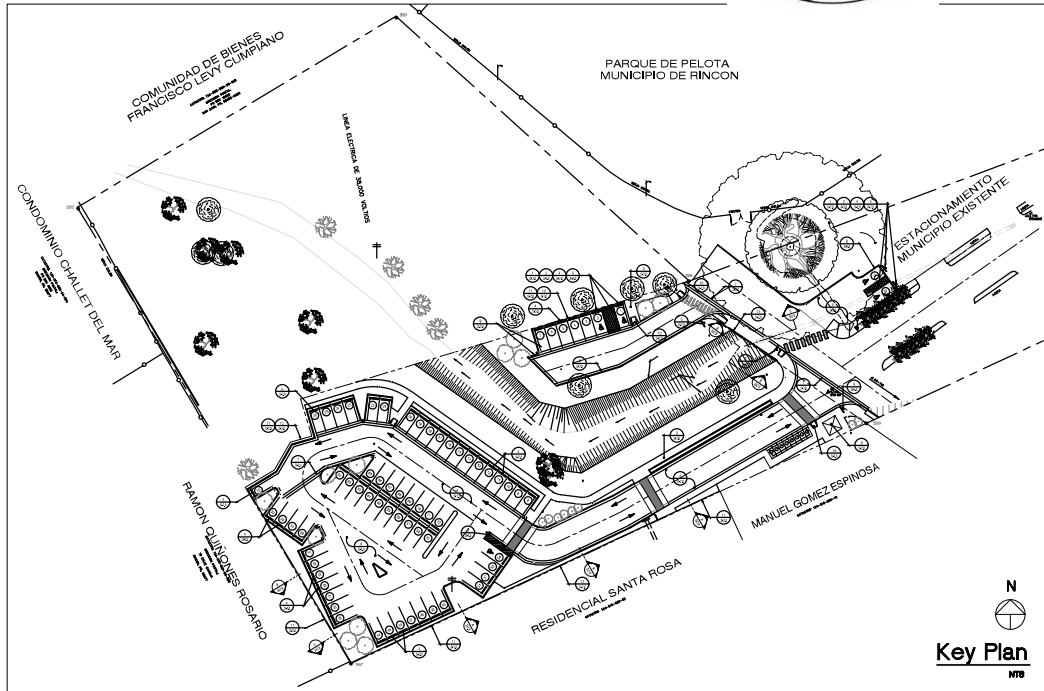
<https://fws.maps.arcgis.com/home/webmap/print.html>



CITY REVITALIZATION PROGRAM ESTACIONAMIENTO URBANO, PR-CRP-000505

Rincón, Puerto Rico, 00677

MUNICIPIO AUTONOMO DE RINCON
HON. CARLOS D. LOPEZ BONILLA



SHEET

T-1 TITLE

EXISTING CONDITIONS

- ST-1 SURVEY AND TOPOGRAPHIC WORK
- ST-2 SURVEY AND TOPOGRAPHIC WORK - VIEW 1
- ST-3 SURVEY AND TOPOGRAPHIC WORK - VIEW 2
- ST-4 SURVEY AND TOPOGRAPHIC WORK - VIEW 3
- ST-5 SURVEY AND TOPOGRAPHIC WORK - VIEW 4
- ST-6 SURVEY AND TOPOGRAPHIC WORK - VIEW 5

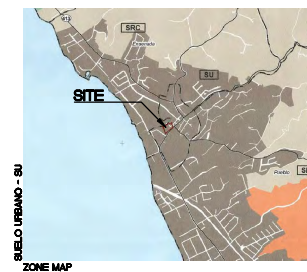
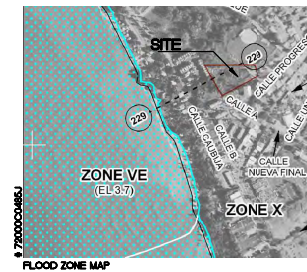
DEMOLITION PLAN

- DP-1 DEMOLITION SITE PLAN
- DP-12 DEMOLITION DETAIL
- DP-2 DEMOLITION NOTES

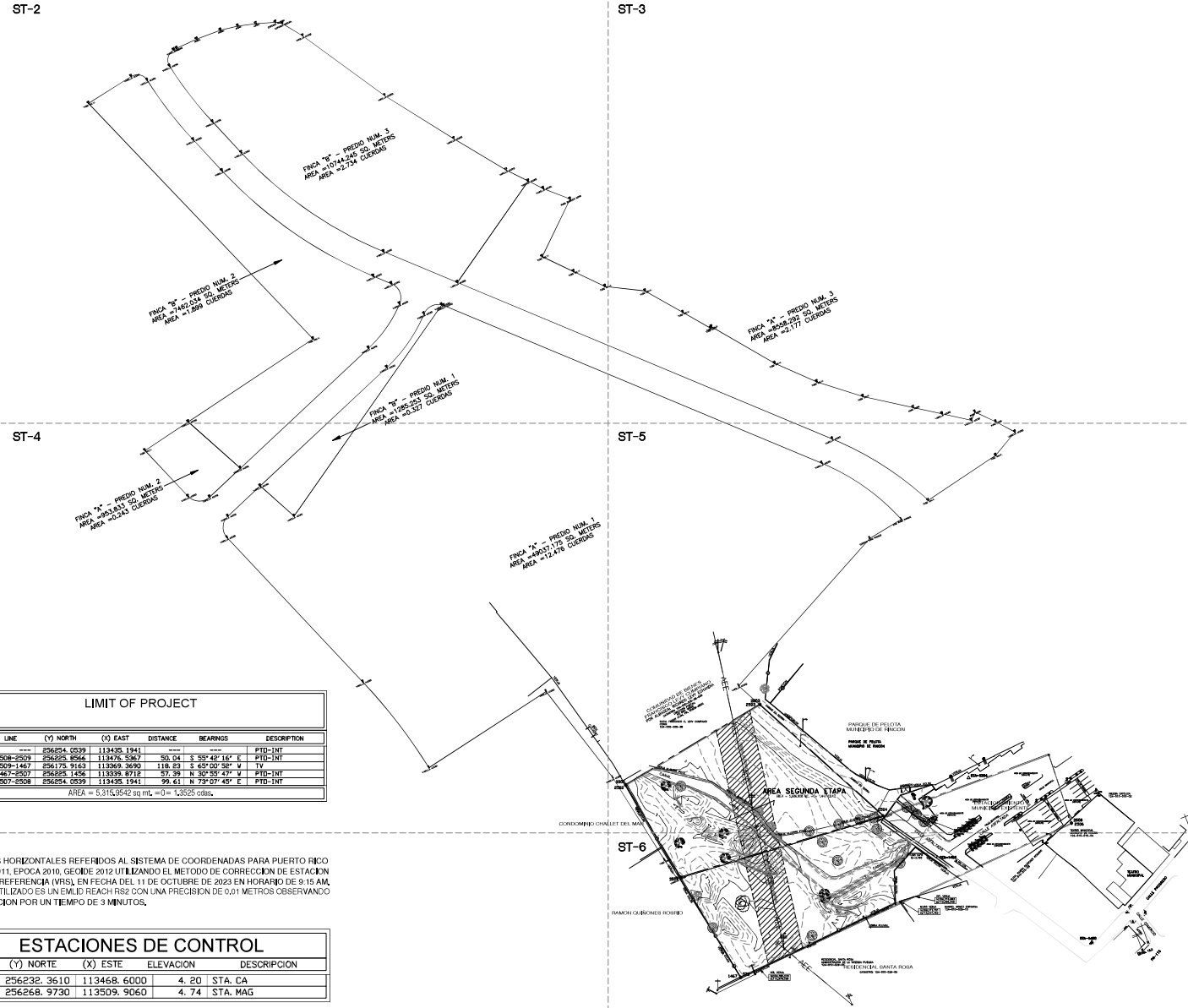
SITE

- SI-1 PROPOSED SITE PLAN
- SI-2 TYPICAL SITE DETAILS
- SI-2.1 TYPICAL SITE DETAILS
- SI-3 PROPOSED GRADING SITE PLAN
- SI-4 GENERAL NOTES
- SI-5 LONGITUDINAL AND TRANSVERSAL PROFILES
- SI-6 PROPOSED STORM SEWER SITE PLAN
- SI-7 STORM SEWER PROFILES
- SI-8 STORM SEWER TYPICAL DETAILS
- SI-9 PROPOSED LIGHTING SITE PLAN

- SITE
- RS-1 PROPOSED ROAD SIGN LOCATIONS
- RS-2 PROPOSED ROAD SIGN LOCATIONS
- RS-3 PROPOSED ROAD SIGN LOCATIONS



ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT SURVEY AND TOPOGRAPHIC WORK SCALE 1 : 80



LEYENDA

LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
	CONTROL HORIZONTAL Y VERTICAL.
	PUNTO COLINDANCIA.
	ELEVACION.
	PARRILLA PUVIAL.
	LIMITE DE PROPIEDAD.
	VERJA ALAMBRE PUNAS.
	LINEA DE CENTRO.
	CONTORNOS A CADA 0.25 MTS.
	CONTORNOS A CADA 1.00 MTS.
	ELEVACION DE CONTORNOS.

LEYENDA FACILIDADES ELECTRICAS

LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
	POSTE MADERA O ALUMINIO CON LUMINARIA.
	POSTE MADERA O ALUMINIO ELECTRICO.
	POSTE TELEFONICO.
	TENSOR.
	LINEA ELECTRICA (AEE)

LEYENDA DE ARBOLES

ALGUNO DE LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

	ALMENDRO		ARBOL		ARBOL SECO		ARBUSTO
	BAMBU		CEIBA		PALMITA		ROBLE
<small>(Arbol seco = árbol seco)</small>							
<small>(Arbol seco = árbol seco)</small>							
<small>(Arbol seco = árbol seco)</small>							
<small>(Arbol seco = árbol seco)</small>							

LIMIT OF PROJECT

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
2508		256254.0529	112435.1941			PTD-INT
2509	2508-2509	256252.9564	112476.3267	50.04	S 59°42'16" E	PTD-INT
1467	2509-1467	256175.9163	112369.3690	118.63	S 45°00'38" W	TV
2507	1467-2507	256195.1456	112339.8718	57.39	N 30°55'47" V	PTD-INT
2508	2507-2508	256254.0529	112435.1941	99.61	N 73°07'45" E	PTD-INT

AREA = 5,315,3542 sq mt, =0= 1,3525 cabts.

CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS PARA PUERTO RICO NAD83, NA 2011, EPOCA 2010, GEODE 2012 UTILIZANDO EL METODO DE CORRECCION DE ESTACION VIRTUAL DE REFERENCIA (VRS), EN FECHA DEL 11 DE OCTUBRE DE 2023 EN HORARIO DE 9:15 AM. EL EQUIPO UTILIZADO ES UN EMULID REACH R52 CON UNA PRECISION DE 0,01 METROS OBSERVANDO CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES DE CONTROL

ESTACION	(Y) NORTE	(X) ESTE	ELEVACION	DESCRIPCION
20	256232.3610	113468.6000	4.20	STA. CA
21	256268.9730	113509.9060	4.74	STA. MAG

APPLIED ENGINEERING GROUP
ARCHITECTURAL ENGINEERING & SURVEYING
10 St. Montecarlo Avenue #886 Rto Piedras, PR 00981
Tel: 787-587-7800 / Fax: 787-771-8000 / 800-452-6666

CONSULTANT

NO.	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	REVISION
1	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
2	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
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6	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023
7	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023	10/23/2023

EXISTING CONDITION
SITE PLAN VIEW

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00877

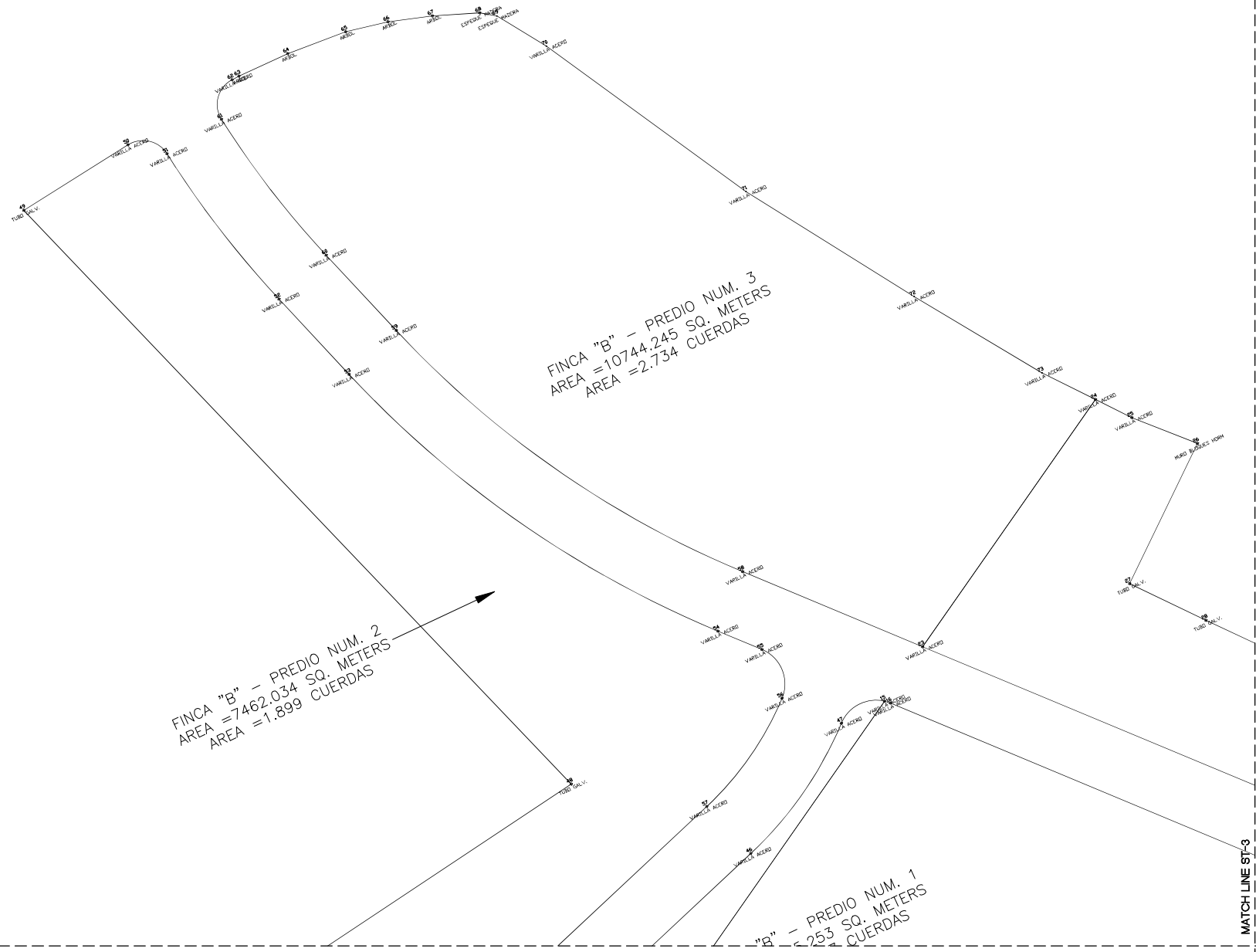
AS-BUILD PLAN
EXIST. COND.

DATE
APRIL 2024
JOB NO. SHEET
ST-1

THIS DRAWING DEPICTS THE DESIGN OF THE PROJECT AND IS INTENDED FOR INFORMATION ONLY. AS AN INSTRUMENT OF THE PROFESSION, IT IS NOT TO BE USED FOR CONSTRUCTION OF THE PROJECT UNLESS IT IS APPROVED BY THE APPLICABLE AGENCIES.

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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
 SCALE 1:30M



APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERS
 10 St. Montecore Avenue #886 Rto Piedras, PR 00981
 Phone: 787-587-7871 / Fax: 787-587-7872

NO.	DATE	REVISION
1	02/28/2024	ISSUE FOR REVIEW
2	03/06/2024	ISSUE FOR REVIEW
3	03/06/2024	ISSUE FOR REVIEW
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100	03/06/2024	ISSUE FOR REVIEW

SHEET FILE: **EXISTING CONDITION SITE PLAN VIEW VIEW 1**

PROJECT NAME: **CITY REVITALIZATION PROJECT ESTACIONAMIENTO URBANO PR-CRP-000605 MUNICIPIO DE PINCON PR 00877**

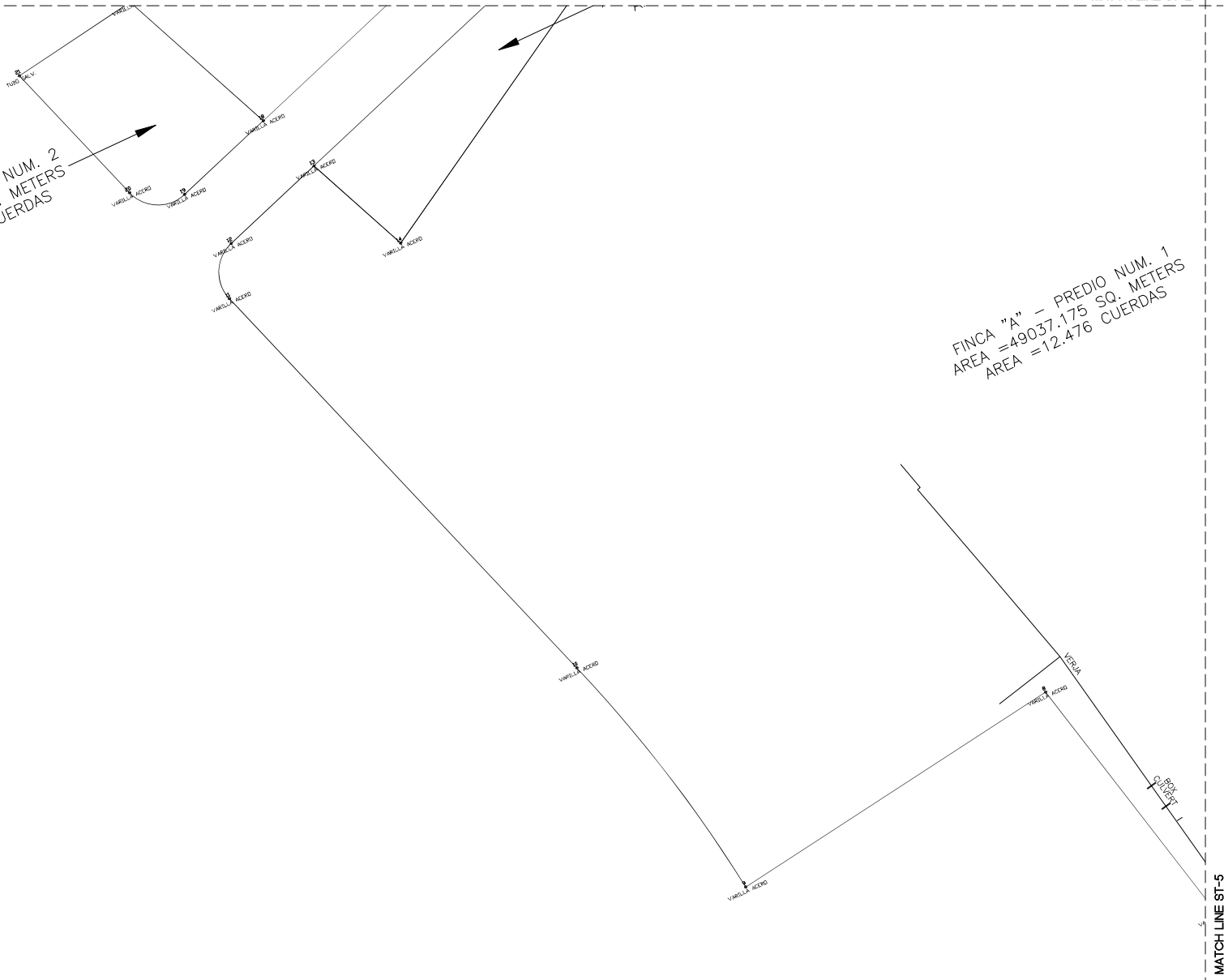
PHASE: **AS-BUILD PLAN EXIST. COND.**

SHEET NO.	DATE
ST-2	APRIL 2024

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 SURVEY AND TOPOGRAPHIC WORK
 SCALE 1 : 30M

FINCA "A" - PREDIO NUM. 2
 AREA = 953.833 SQ. METERS
 AREA = 0.243 CUERDAS

FINCA "A" - PREDIO NUM. 1
 AREA = 49037.175 SQ. METERS
 AREA = 12.476 CUERDAS



THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR INFORMATION ONLY. THE INSTRUMENT OF SERVICE FOR THIS PROJECT IS LIMITED TO THE DESIGN OF THE PAVING AND TO THE SURVEY AND TOPOGRAPHIC WORK. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY OF THE DATA AND FOR THE PROTECTION OF THE PROJECT. THE CLIENT IS NOT RESPONSIBLE FOR THE PROTECTION OF THE PROJECT.



REVISION	DATE	ISSUE FOR REVIEW
DATE17	DATE17	REVISION
DATE16	DATE16	ISSUE FOR REVIEW
DATE15	DATE15	ISSUE FOR REVIEW
DATE14	DATE14	ISSUE FOR REVIEW
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DATE04	DATE04	ISSUE FOR REVIEW
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DATE02	DATE02	ISSUE FOR REVIEW
DATE01	DATE01	ISSUE FOR REVIEW

EXISTING CONDITION
 SITE PLAN VIEW
 VIEW 3

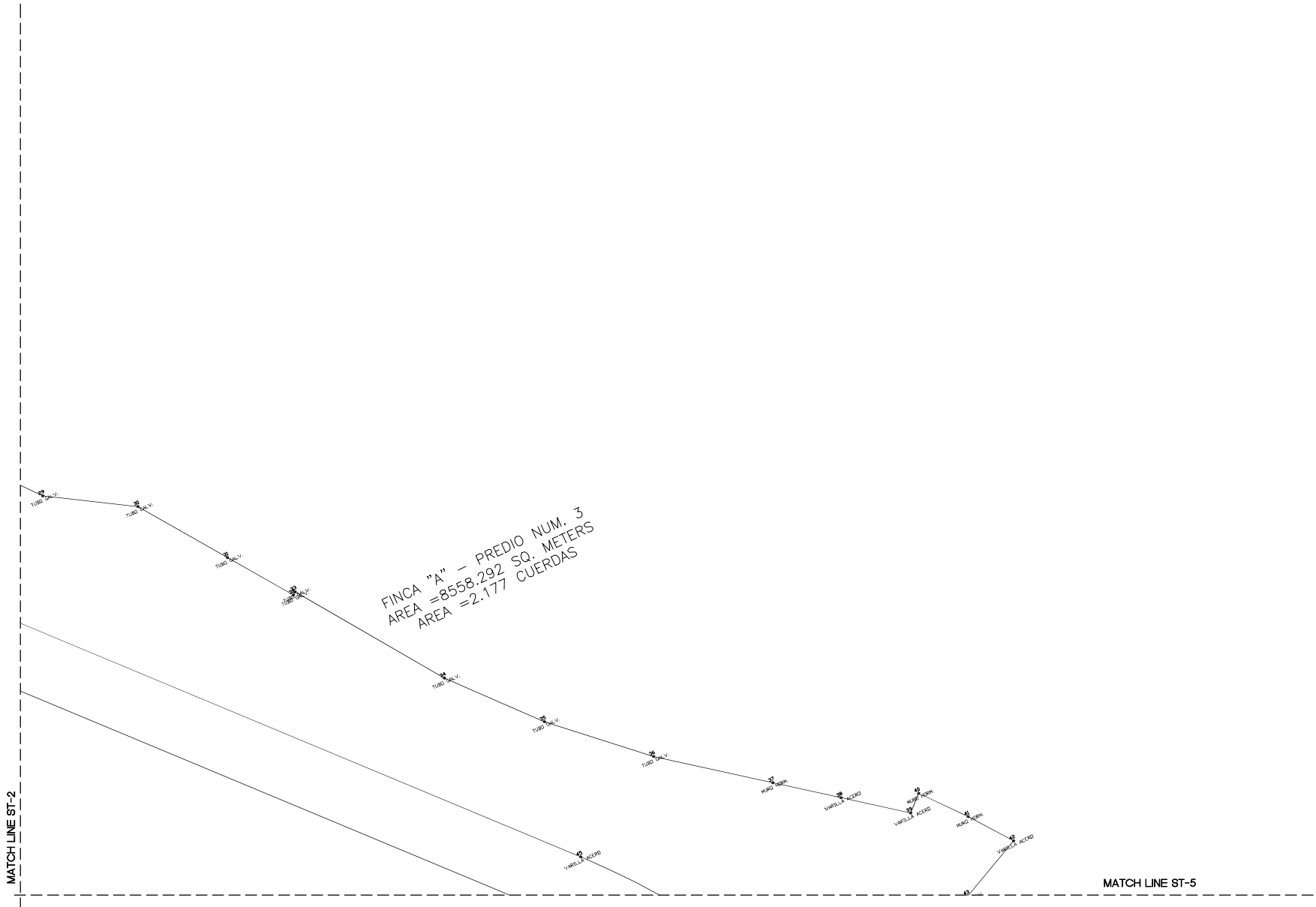
CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE PINCON
 PR 00877

AS-BUILD PLAN
 EXIST. COND.

APRIL 2024
 ST-4

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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
 SCALE 1:30M



SHEET NAME
ST-3

PHASE
**AS-BUILD PLAN
 EXIST. COND.**

PROJECT NAME
**CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE PINCON
 PR 00877**

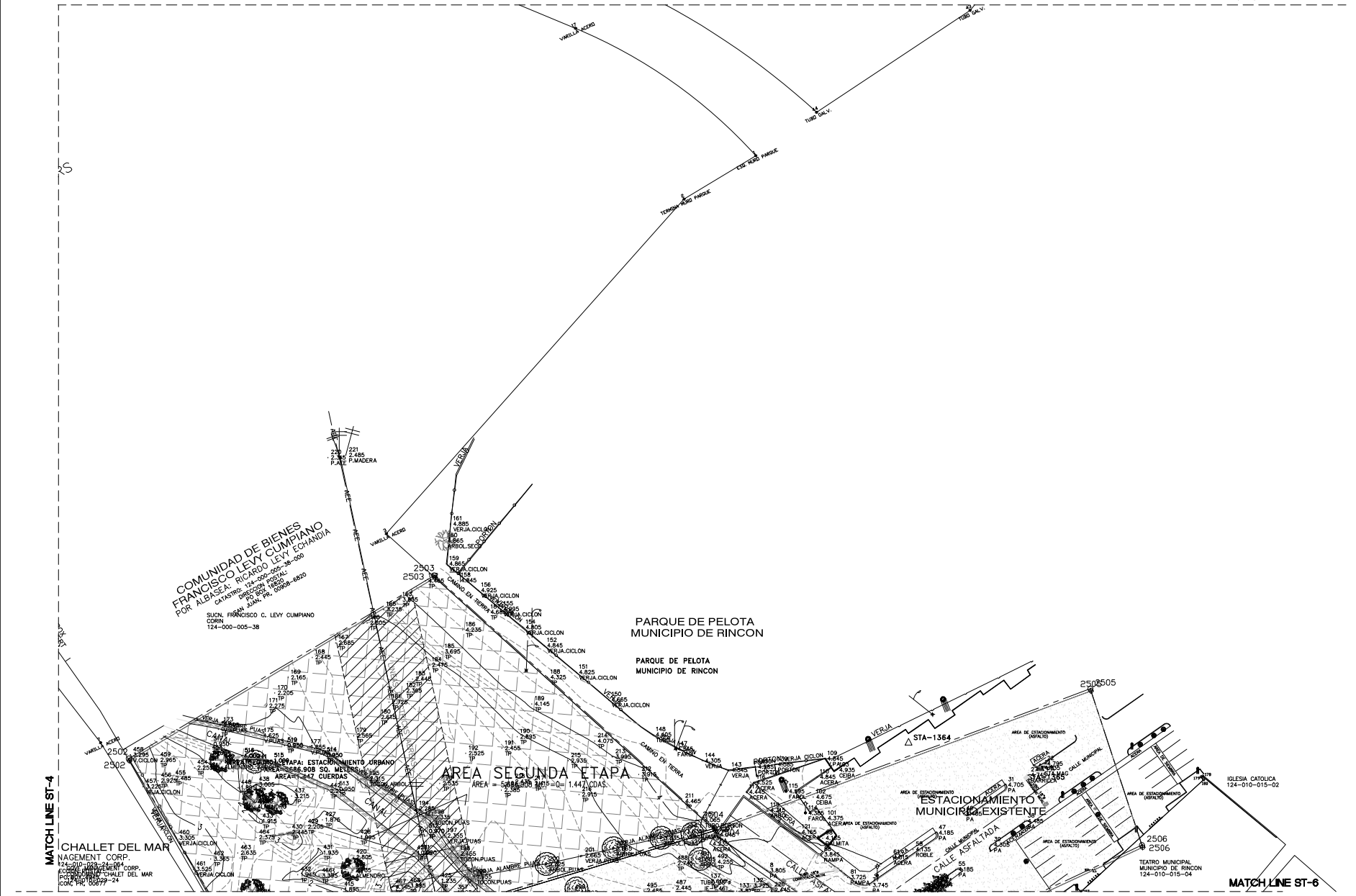
SHEET FILE
**EXISTING CONDITION
 SITE PLAN VIEW
 VIEW 2**

REVISION	DATE
ISSUE FOR REVIEW DATE	10/26/2023
ISSUE FOR REVIEW DATE	11/06/2023
ISSUE FOR REVIEW DATE	12/06/2023
ISSUE FOR REVIEW DATE	01/06/2024
REVISION	DATE
REVISION	DATE
REVISION	DATE
REVISION	DATE

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING
 10 St. Montecarlo Avenue #886 Rio Piedras, PR 00918
 Phone: 787-721-5001 / Fax: 787-721-5002 / Email: info@appliedeng.com

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
 SCALE 1 : 30M

MATCH LINE ST-3



APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING & SURVEYING
 10 St. Montecore Avenue #886 Rio Piedras, PR 00918
 Phone: 787-587-7871 / Fax: 787-587-7871 / 787-587-5871

NO.	DATE	REVISION
1	10/20/2024	ISSUE FOR REVIEW
2	11/06/2024	ISSUE FOR REVIEW
3	11/06/2024	ISSUE FOR REVIEW
4	11/06/2024	ISSUE FOR REVIEW
5	11/06/2024	REVISION

EXISTING CONDITION
SITE PLAN VIEW
VIEW 4

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
MUNICIPIO DE RINCON
 PR 00877

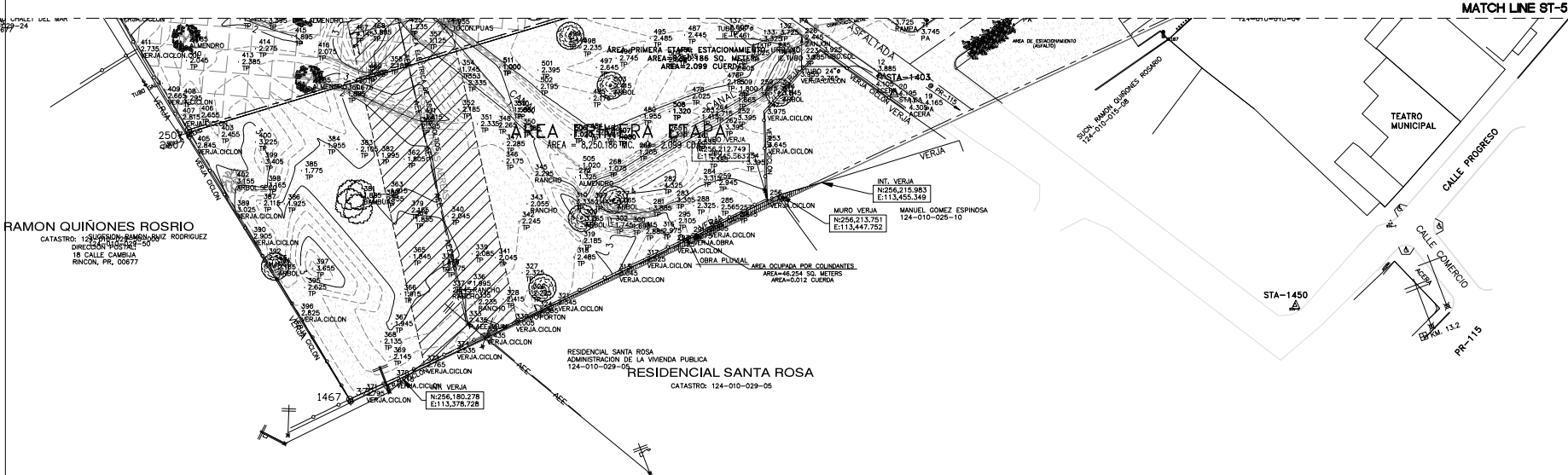
AS-BUILD PLAN
EXIST. COND.

DATE	DWG. SHEET
APRIL 2024	ST-5

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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
SCALE 1 : 30M

THIS DRAWING BECOMES THE DESIGN REPORT OF APPLIED ENGINEERING GROUP FOR THE PROJECT AND IS ISSUED FOR REVIEW ONLY AS AN INSTRUMENT OF THE PROFESSION. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF APPLIED ENGINEERING GROUP.



MATCH LINE ST-5

ISSUE NO.	ISSUE DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE
01	04/08/2024	04/08/2024	04/08/2024
02	04/08/2024	04/08/2024	04/08/2024
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09	04/08/2024	04/08/2024	04/08/2024
10	04/08/2024	04/08/2024	04/08/2024

EXISTING CONDITION
SITE PLAN VIEW
VIEW 5

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
MUNICIPIO DE PINCON
PR 00877

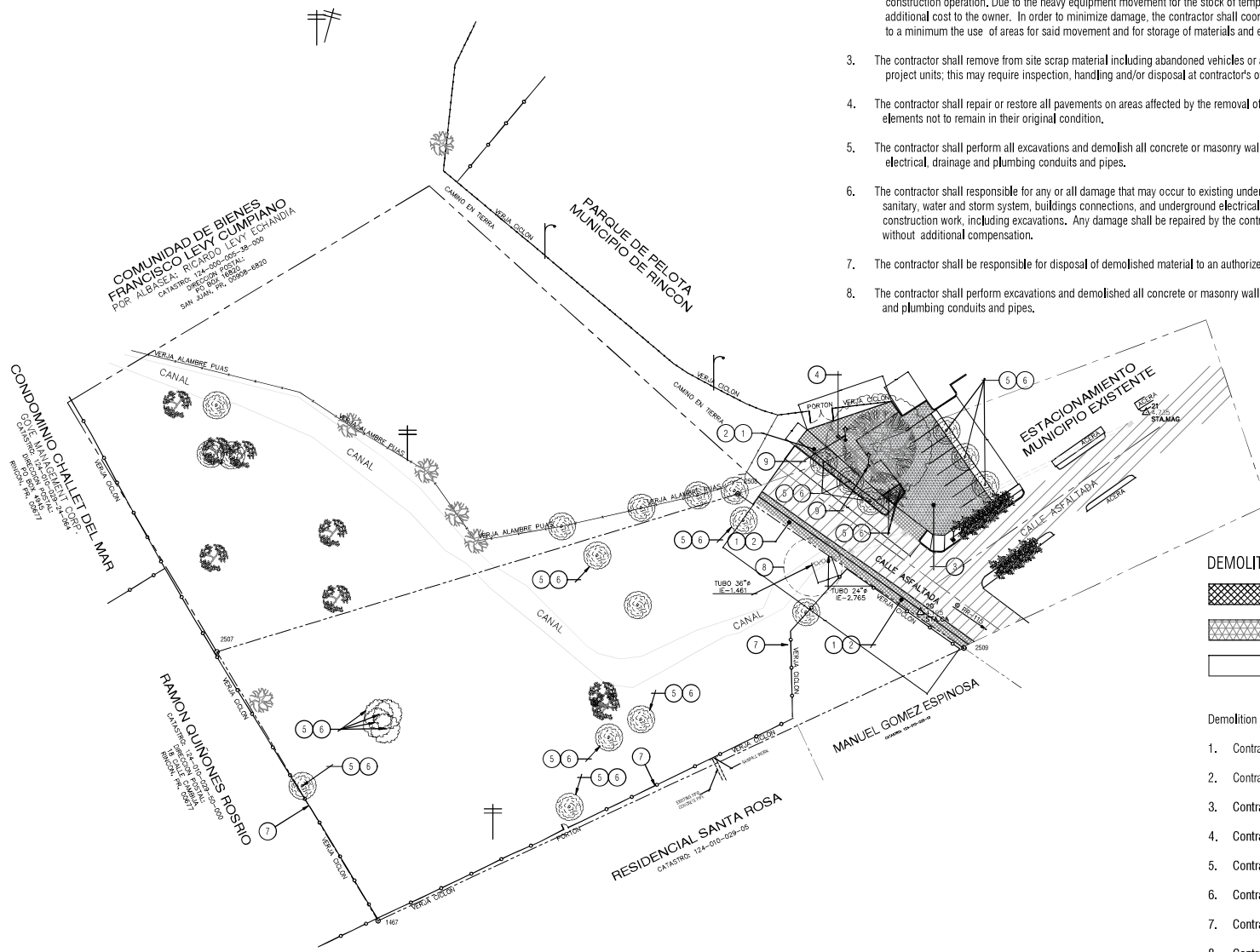
AS-BUILD PLAN
EXIST. COND.

DATE
APRIL 2024
SHEET NO.
ST-6

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING
 10 St. Montecarlo Avenue #886 Rto Piedras, PR 00981
 Phone: 787-771-8871 / Fax: 787-771-8889 / Web: 787-771-8888

**ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
DEMOLITION SITE PLAN
SCALE : 1 : 30**

THIS DRAWING OBJECTS THE DESIGN PROFESSIONAL'S LIABILITY FOR THIS PROJECT AND IS ISSUED FOR REVISION ONLY AS AN INSTRUMENT OF THE PROFESSION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.



General Notes:

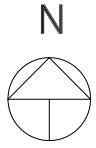
- The contractor must visit and inspect the site before bidding in order to ascertain the extent of work required for the demolition and disposal of existing structures, and/or elements such as; tree, scrap materials, etc. Therefore the contractor must include all demolition required even if not shown on demolition drawings.
- The contractor shall repair, clean and restore to finished grade as required all curbs, sidewalks and areas affected during the construction operation. Due to the heavy equipment movement for the stock of temporary construction materials. At no additional cost to the owner. In order to minimize damage, the contractor shall coordinate with the resident engineer and limit to a minimum the use of areas for said movement and for storage of materials and equipment.
- The contractor shall remove from site scrap material including abandoned vehicles or any other element discarded within the project units; this may require inspection, handling and/or disposal at contractor's own expense.
- The contractor shall repair or restore all pavements on areas affected by the removal of existing post transformers, pads or elements not to remain in their original condition.
- The contractor shall perform all excavations and demolish all concrete or masonry walls necessary for the installation of electrical, drainage and plumbing conduits and pipes.
- The contractor shall be responsible for any or all damage that may occur to existing underground utilities, such as: sanitary, water and storm system, buildings connections, and underground electrical facilities during demolition and construction work, including excavations. Any damage shall be repaired by the contractor within 12 hours of its occurrence without additional compensation.
- The contractor shall be responsible for disposal of demolished material to an authorized dump site.
- The contractor shall perform excavations and demolished all concrete or masonry walls as required for the installation of electrical, drainage and plumbing conduits and pipes.

DEMOLITION LEGEND:

- INDICATE CONCRETE TO BE DEMOLISH & DISPOSE
- INDICATE ASPHALT PAVEMENT TO BE DEMOLISH & DISPOSE (SCARIFICATION)
- INDICATE EXISTING TO REMAIN

Demolition Notes:

- Contractor shall Remove and Disposed Existing Sidewalks.
- Contractor shall Remove and Disposed Existing Concrete Curbs.
- Contractor shall Remove and Disposed Existing Asphalt Pavement.
- Contractor shall Remove and Disposed Existing Concrete Slabs.
- Contractor shall Remove and Disposed Existing Tree Stumps.
- Contractor shall Remove and Disposed Existing Trees.
- Contractor shall remove and disposed Existing Cyclone Fence.
- Contractor shall Cut, Remove and Disposed Underground Drainage Pipe
- Contractor shall Remove and Disposed the Existing Lighting Poles.



APPLIED ENGINEERING GROUP
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Phone: 787-771-6001 / Fax: 787-771-6002

PROPOSED PROJECT

CITY REVITALIZATION PROJECT

ESTACIONAMIENTO URBANO

PR-CRP-000605

MUNICIPIO DE RINCON

PR 00877

PROPOSED PROJECT

DEMOLITION SITE PLAN

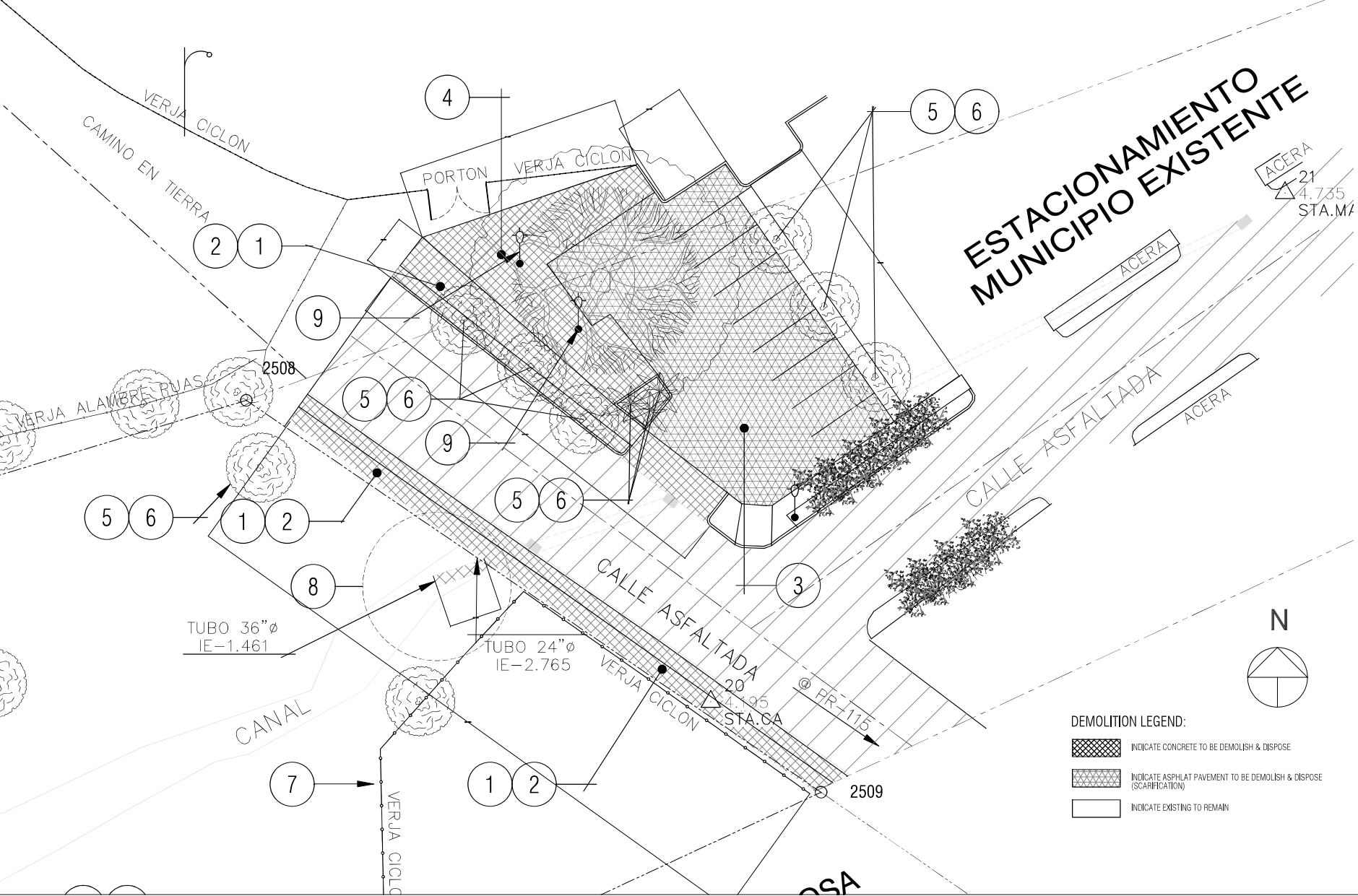
SHEET 002




NO.	DATE	DESCRIPTION
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86	04/12/2024	ISSUE FOR REVIEW
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98	04/12/2024	ISSUE FOR REVIEW
99	04/12/2024	ISSUE FOR REVIEW
100	04/12/2024	ISSUE FOR REVIEW

APRIL 2024

DP-1

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 DEMOLITION SITE PLAN
 SCALE 1:10M



- DEMOLITION LEGEND:**
-  INDICATE CONCRETE TO BE DEMOLISH & DISPOSE
 -  INDICATE ASPHALT PAVEMENT TO BE DEMOLISH & DISPOSE (SCARIFICATION)
 -  INDICATE EXISTING TO REMAIN

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERS

10 St. Montecore Avenue #886 Río Piedras, PR 00918
 Phone: 787-761-8001 / Fax: 787-761-8002

CONSULTANT

PROJECT NAME: **CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605**

MUNICIPIO DE PINCON
 PR 00877

NO.	DATE	DESCRIPTION
1	04/01/2024	ISSUE FOR REVIEW
2	04/01/2024	ISSUE FOR REVIEW
3	04/01/2024	ISSUE FOR REVIEW
4	04/01/2024	ISSUE FOR REVIEW
5	04/01/2024	ISSUE FOR REVIEW
6	04/01/2024	ISSUE FOR REVIEW
7	04/01/2024	ISSUE FOR REVIEW
8	04/01/2024	ISSUE FOR REVIEW
9	04/01/2024	ISSUE FOR REVIEW
10	04/01/2024	ISSUE FOR REVIEW

PROPOSED PROJECT

PROPOSED DEMOLITION SITE PLAN

DATE: APRIL 2024	SHEET NO.:
DRAWN BY: DP-12	SHEET TOTAL:

THE DRAWING DEPICTS THE DESIGNER'S BEST AND TRUEST REPRESENTATION OF THE PROJECT AND IS INTENDED FOR INFORMATION ONLY. AS AN INSTRUMENT OF THE PROFESSION, IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE DESIGNER.

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT DEMOLITION NOTES

GENERAL INSTRUCTIONS:

1. ANY ASPHALT THAT CAN BE RECYCLED SHALL BE RECYCLES AND REUSE ON SITE.
2. CONTRACTOR SHALL DISPOSE PROPERLY OF ALL NON-RECYCLABLE MATERIALS FROM DEMOLITION WORK, INCLUDING SITE GARBAGE ACCUMULATIONS, IN CERTIFIED LANDFILLS ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS. SEE AND COMPLY WITH HAZARDOUS MATERIALS ABATEMENT REMOVAL & DISPOSAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLECTED TO THE PROJECT PROPERTY OR ADJACENT PROPERTIES OR OTHER PROJECT AREAS TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED ITEMS SHALL BE RESTORED TO IT'S ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AND OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
4. DEMOLITION AND REMOVAL SHALL BE CONDUCTED IN A MANNER THAT ELIMINATES HAZARDS TO PERSONS, THE ENVIRONMENT AND PROPERTY IN THE PROJECT AND THE SURROUNDING AREA. THE CONTRACTOR SHALL PREVENT THE RELEAS OF LEAD CONTAINING DUST WHERE APPLICABLE INTO THE AIR AND SOIL.
5. FOR ALL DEBRIS AND SCRAP MATERIALS CONTRACTOR SHALL DISPOSE OF AS TO MAINTAIN THE PROJECT SITE & SURROUNDINGS FREE OF WASTE MATERIALS, ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL STREETS FREE OF OBSTRUCTIONS AND CLEAN AT ALL TIMES. WHERE WASHING WITH WATER IS REQUIRED TO CONSTRUCT OR TO PREVENT HEALTH HAZARDS TO ADJACENT RESIDENTIAL AND COMMERCIAL AREAS, CONTRACTOR SHALL USE WATER TANK TRUCKS AT HIS OWN COST OR REQUEST A TEMPORARY CONNECTION FROM AN AVAILABLE AAA METER, AND CAN NOT BE TAKEN FROM PUBLIC FIRE HYDRANTS OR NEIGHBORS.
7. THE CONTRACTOR SHALL SUBMIT, PROCURE AND OBTAIN ALL NECESSARY DOCUMENTS AND PERMITS FROM THE OGPe AND ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO, SOLID WASTE AUTHORITY AND EPA, IN ORDER TO PROCEED WITH CONTRACTED WORK.
8. CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL EXISTING PROJECT PERMITS AND / OR SUBMIT AND OBTAIN NEW THE NEW PERMITS AT HIS OWN COST.
9. THE CONTRACTOR WILL NOTIFY AND OBTAIN PERMIT FROM THE PUBLIC SERVICE COMMISSION PRIOR TO EXCAVATION AND DEMOLITION WORK IN THE PROJECT. PERMITS AND APPROVALS CONCERNING PROJECT ACTIVITIES MUST BE SUBMITTED TO THE OWNER AND HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY CORRESPONDING WORK.
10. PRIOR TO PROCEEDING WITH PLANTING AND REFORESTATION WORK, CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES A PERMIT FOR CUTTING, PRUNING AND PLANTING.

11. UTILITIES AND OR SERVICES (CONSISTING BUT NOT LIMITED TO WATER, SEWER, ELECTRICITY, GAS, CABLE TV, DATA AND TELEPHONE) CAN NOT BE SUSPENDED, WITHOUT PRIOR AUTHORIZATION OF THE PROJECT MANAGEMENT. IF ACCIDENTALLY ANY SERVICE IS INTERRUPTED DUE TO PROJECT ACTIVITIES, CONTRACTOR WILL PROVIDE IMMEDIATE REPAIR TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
12. THE CONTRACTOR IS RESPONSIBLE TO TAKE PHOTOS OF THE EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORKS. THIS IS REQUIRED FOR ANY CLAIM THAT ARISES AND MUST BE DELIVERED TO THE RESIDENT INSPECTOR FOR HIS FILES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTERS DURING DEMOLITION AND CONSTRUCTION WORKS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY OR NECESSARY EQUIPMENTS OR UTILITIES FOR THE PROVISION OF ELECTRICITY, POTABLE WATER AND SANITARY SERVICES FOR THE CONSTRUCTION PERSONNEL AND FOR THE CONSTRUCTION INSPECTION TEAM DURING THE DEMOLITION AND CONSTRUCTION PERIOD. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY OFFICE TRAILER FOR THE CONSTRUCTION INSPECTION TEAM.

SAFETY AND HEALTH PRECAUTIONS:

1. SAFETY MEASURES AND PRECAUTIONS DURING DEMOLITION/CONSTRUCTION (ALL O.S.H.A. AND E.P.A. UPDATED COMPLIANCE IS UNDER EFFECT).
2. GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS SAFETY PLAN.
3. SAFETY MEETINGS - THE CONTRACTOR WILL PERFORM WEEKLY SAFETY TOURS AND MEETINGS WITH HIS PERSONNEL TO TRAIN AND DISCUSS THE BEST PRACTICES AND SAFETY MEASURES TO BE IMPLEMENTED IN THE PROJECT.
4. THE CONTRACTOR WILL PERFORM CONTINUOUS JOB SITE INSPECTIONS CONFIRM ANY POTENTIAL SAFETY HAZARDS IF A POTENTIAL HAZARD IS SUSPECTED OR FOUND, THE CONTRACTOR. WILL USE THE APPROPRIATE METHODS, EQUIPMENT, DEVICES AND MATERIAL TO ASSURE A SAFE WORKPLACE, SAFETY TOURS. AND TO MAINTAIN A SAFE AND ACCIDENT FREE JOB.
5. THE CONTRACTOR WILL PROVIDE TRAINED AND EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIRE PROTECTION IN THE WORK AND OPERATIONAL AREAS.
7. PROJECT SITE OR SURROUNDINGS CANNOT BE USE FOR THE STORAGE OF CONSTRUCTION OR COMBUSTIBLE MATERIAL.
8. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS FOR THE ENTIRE DEMOLITION / CONSTRUCTION AREA.
9. ALL HEAVY EQUIPMENT SHOULD HAVE ITS OWN FIRE EXTINGUISHERS OR HAVE ONE AVAILABLE IN A 100 FEET RADIUS FROM IT.
10. DURING DEMOLITION / CONSTRUCTION PERIOD FREE ACCESS TO FIRE HYDRANTS, OR TO OTHER FIRE EXTINGUISHING EQUIPMENT, SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.
11. CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DRESS PROPERLY WHILE PERFORMING THEIR JOB AND TO USE THEIR PERSONAL PROTECTIVE EQUIPMENT IN COMPLIANCE WITH OSHA AT ALL TIME. AS A MINIMUM, BUT NOT LIMITED TO:
 1. EACH WORKER WILL USE APPROPRIATE WORKING SAFETY SHOES.
 2. PROPER RESPIRATORY PROTECTION WILL BE USE WHENEVER REQUIRED.
 3. PROPER HAND PROTECTION WILL BE USE WHEN REQUIRED.
 4. PROPER HEARING PROTECTION WILL BE USED IN AREAS WHERE SOUNDS ARE HIGHER THAN 80 DBS.
 5. CORRESPONDING HARD HAT WILL BE USE WHENEVER REQUIRED.
 6. REFLECTIVE VEST WILL BE USE WHENEVER REQUIRED.



ISSUE FOR REVIEW DATE	APRIL 2024
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PROPOSED SITE PLAN DEMOLITION NOTES

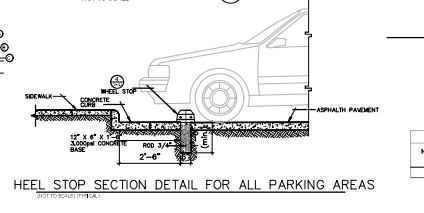
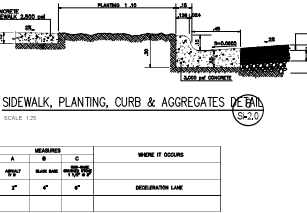
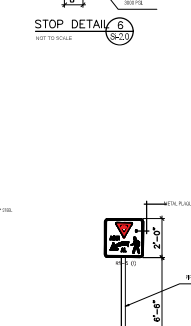
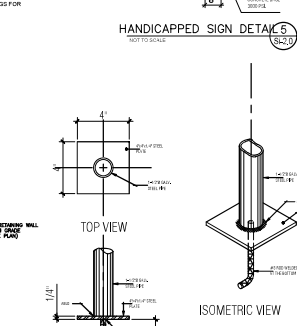
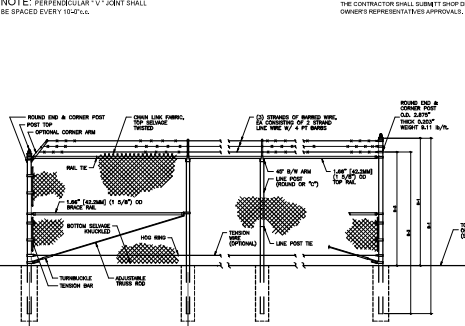
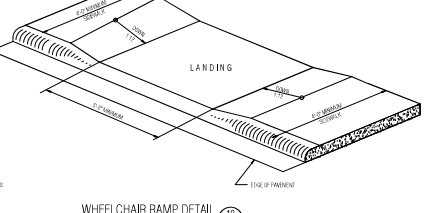
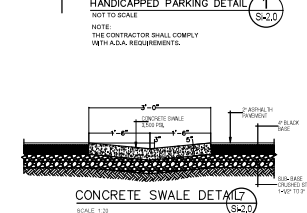
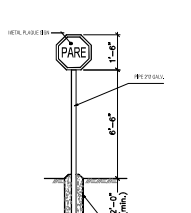
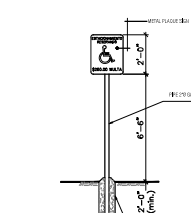
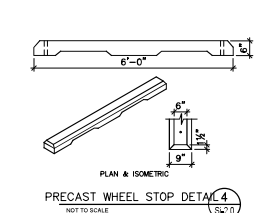
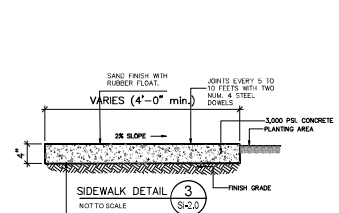
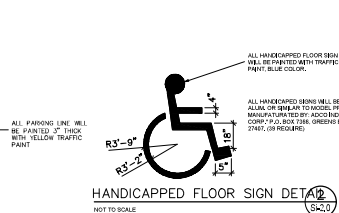
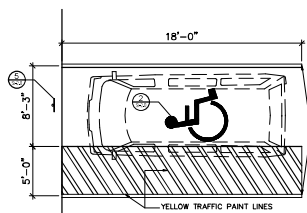
CITY REVITALIZATION PROJECT ESTACIONAMIENTO URBANO PR-CRP-000605 MUNICIPIO DE PUNCON PR 00877

PROPOSED PROJECT

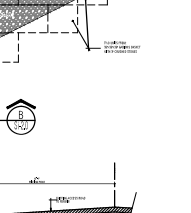
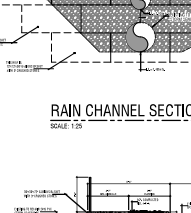
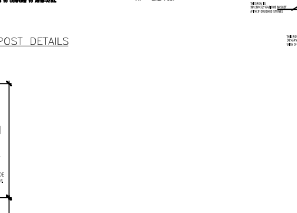
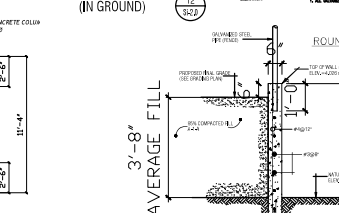
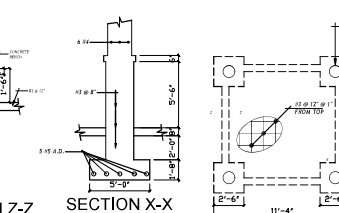
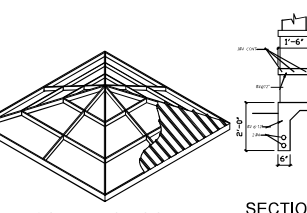
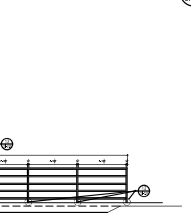
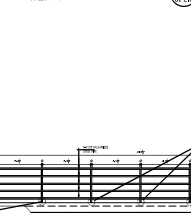
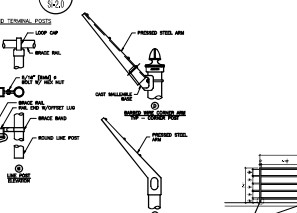
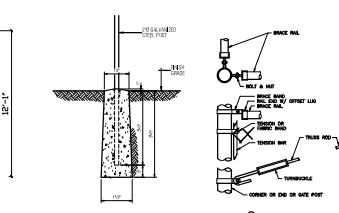
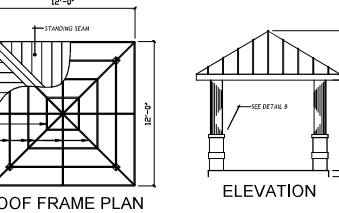
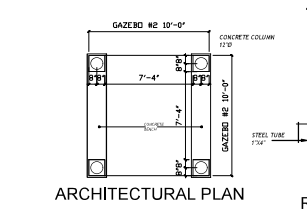
DATE: APRIL 2024
DRAWN BY: DP-2

THIS DRAWING DEPICTS THE DESIGN OF THE PROJECT AND IS NOT TO BE USED FOR CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

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FENCE HEIGHT	UPRIGHT END & CORNER POSTS	LINE POSTS	CORNER POSTS WITH CORNER ARM
HOW HT INCLUDING BARBED WIRE	BAR LENGTH	BAR LENGTH	BAR LENGTH
4'-0"	11'-1"	8'-2"	8'-3"
12'-0"	12'-0"	8'-2"	8'-3"
7'-8-7/8"	7'-8-7/8"	7'-8-7/8"	8'-6-5/8"
10'-8"	10'-8"	7'-8-7/8"	11'-0"
7'-8-7/8"	7'-8-7/8"	7'-8-7/8"	8'-6-5/8"



APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERS
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 Phone: 787-771-6877 / Fax: 787-771-6885

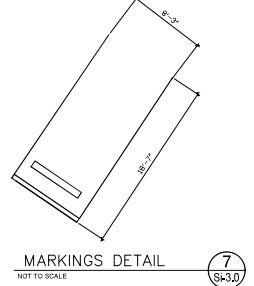
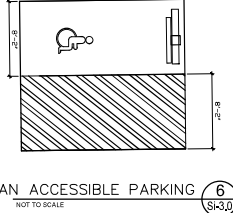
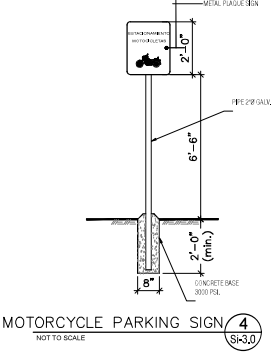
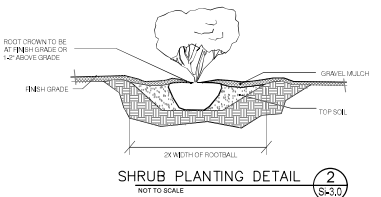
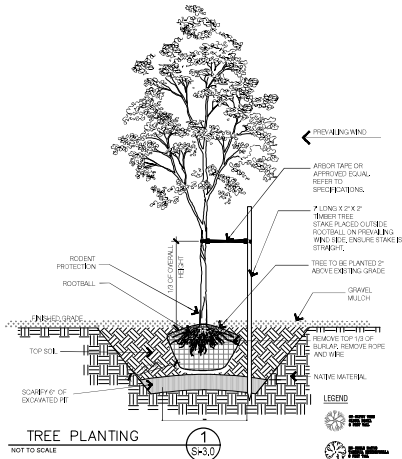
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17	03/20/24	ISSUE FOR REVIEW
18	03/20/24	ISSUE FOR REVIEW
19	03/20/24	ISSUE FOR REVIEW
20	03/20/24	ISSUE FOR REVIEW

PROPOSED SITE PLAN
TYPICAL SITE DETAILS

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MANICRIO DE FINCON
 PR 00677

PROPOSED PROJECT
 APRIL 2024
 SI-2

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APPLIED ENGINEERING GROUP
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 10 St. Montezuma Avenue #886 Rio Piedras, PR 00926
 Phone: 787-731-8371 / Fax: 787-731-8372 / Web: www.aeg.com

PROPOSED SITE PLAN
TYPICAL SITE DETAILS

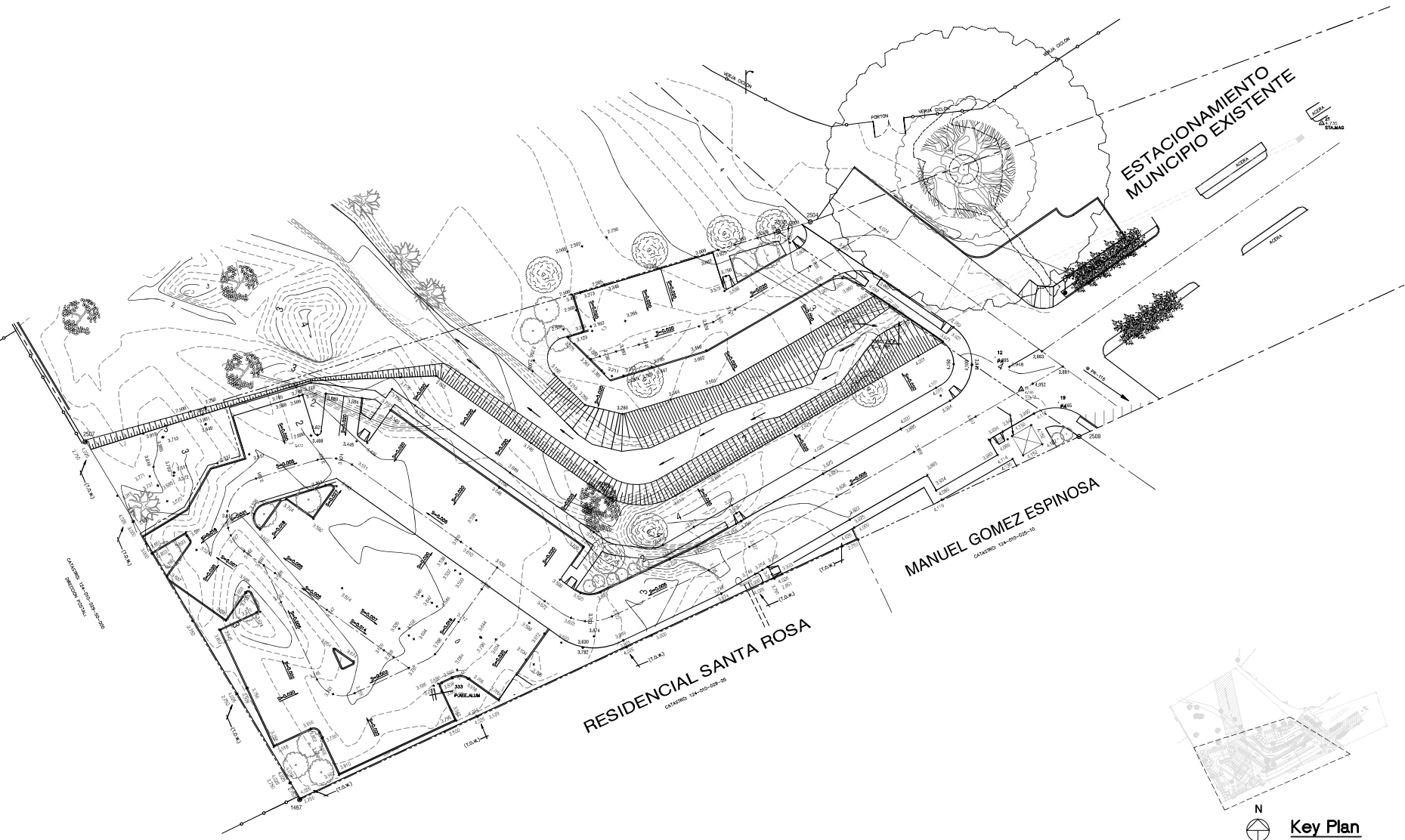
CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00877

ISSUE	DATE
ISSUE FOR REVIEW	DATE
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ISSUE FOR REVIEW	DATE
ISSUE FOR REVIEW	DATE
ISSUE FOR REVIEW	DATE
REVISION	DATE

SHEET NAME: PROPOSED SITE PLAN
 SHEET NO.: 2.1
 DATE: APRIL 2024
 DRAWN BY: [Name]
 CHECKED BY: [Name]

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED GRADING SITE PLAN
 SCALE: 1: 20 M

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NO.	REVISION	DATE
1	ISSUE FOR REVIEW	03/28/2024
2	ISSUE FOR REVIEW	04/08/2024
3	ISSUE FOR REVIEW	04/08/2024
4	ISSUE FOR REVIEW	04/08/2024
5	ISSUE FOR REVIEW	04/08/2024
6	ISSUE FOR REVIEW	04/08/2024
7	REVISION	04/08/2024

PROPOSED SITE PLAN
PROPOSED GRADING SITE PLAN

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00677

PROPOSED PROJECT

APRIL 2024
 SI-3

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING GROUP
 10 St. Montecore Avenue #886 Rio Piedras, PR 00906
 Phone: 787-721-6001 / Fax: 787-721-6002

N
 Key Plan
 NTR

**ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
GENERAL NOTES**

NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS USED MUST COMPLY WITH ALL GOVERNING REGULATIONS AS SET FORTH BY THE PUERTO RICO PLANNING BOARD, AND ALL OTHER CONCERNING REGULATORY AGENCIES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE LEVELS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNER REPRESENTATIVE ANY DISCREPANCIES WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK. FAILURE OF THE CONTRACTOR TO IDENTIFY SUCH DISCREPANCIES WILL NOT BE GROUND FOR CHANGE ORDERS.
3. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS TRASH AND GARBAGE AT HIS COST AND DISPOSE OF IT IN A LEGALLY CERTIFIED LAND FIELD ON A WEEKLY BASIS.
4. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES INFLICTED TO THE OWNER'S PROPERTY WITHIN THE CONTRACT LIMITS OR OTHER ADJACENT AREAS DURING THE EXECUTION OF THE WORK.
5. CONTRACTOR SHALL SUBMIT TO THE ENGINEER ALL REQUIRED SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK .
6. CONTRACTOR SHALL PROVIDE A TEMPORARY PERIMETER CONSTRUCTION FENCE TO ISOLATE CONSTRUCTION AREAS FROM ADJACENT ACTIVITIES. MATERIALS USED MAY BE WOOD, CORRUGATED ZINC PANELS, WOOD PANELING OR APPROVED EQUAL.
7. PRIOR TO STARTING ANY DEMOLITION WORK, THE CONTRACTOR SHALL MEET WITH THE OWNER AND ENGINEER AND PREPARE A DEMOLITION SCHEDULE SHOWING PROPOSED SEQUENCE OF MAJOR DEMOLITION ITEMS; PROVISIONS FOR CONTROLLING NOISE AND DIRT, INCLUDING TEMPORARY STALLS OR SCREENS IF REQUIRED; PROTECTION OF EXISTING OR ADJACENT EQUIPMENT OR CONSTRUCTION; SAFETY PROVISIONS, PROVISIONS FOR DISPOSING OF DEBRIS AND RUBBISH, ETC.
8. IN GENERAL, UNLESS OTHERWISE STIPULATED IN THE DRAWINGS, ALL SALVAGED MATERIALS OR EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ALL SUCH SALVABLE MATERIALS OR EQUIPMENT SHALL BE PROMPTLY REMOVED FROM THE SITE.
9. ALL DEMOLITION WORK SHALL BE EXECUTED WITH ALL POSSIBLE REGARD TO SAFETY AND WITH THE LEAST POSSIBLE NUISANCE FOR OWNER OR OCCUPANTS OF THE PROPERTY AND ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS. CONTRACTOR SHALL COMPLY WITH RENOVATION, REPAIR AND PAINTING RULE ACCORDING TO EPAS LEAD RENOVATION.
10. ANY UN-INDICATED UTILITIES ENCOUNTERED SHALL BE PROTECTED AND LEFT UNDISTURBED OR RELOCATED AS REQUIRED.
11. CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING ADJACENT FACILITIES. SHOULD THE CONTRACTOR CAUSE SUCH DAMAGE, HE SHALL BE RESPONSIBLE FOR REPAIRING AND REFINISHING, OR REPLACING IF REQUIRED, ALL DAMAGED WORK OR EQUIPMENT AT NO EXPENSE TO THE CORRESPONDING OWNER.
12. THE CONSTRUCTION SITE SHALL BE MAINTAINED REASONABLY NEAT AND FREE FROM EXCESSIVE ACCUMULATION OF TRASH AND DEBRIS. PROMPTLY REMOVE ALL TRASH, DEBRIS, RUBBISH, ETC. FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
13. ALL DEMOLISHED PORTIONS OF BEAMS, SLABS, PARAPETS, OVERHANGS, LINTELS ETC. SHALL BE SMOOTHED OUT AND FINISHED TO MATCH ADJACENT SURFACES. SECTIONS OF PROTRUDING RODS AND STEEL REINFORCING BARS SHALL BE CUT AND REMOVED.
14. ANY SUBSTITUTE FOR SPECIFIED ITEMS MUST BE APPROVED IN WRITING BY THE OWNER.
16. PRIOR TO COMMENCING ANY EXCAVATIONS OR REMOVAL OF EXISTING MATERIAL WITHIN THE CONTRACT AREAS, GENERAL CONTRACTOR SHALL VERIFY AND ESTABLISH ALL EXISTING SITE LEVELS TO BE MAINTAINED ONCE CONTRACTED WORKS ARE COMPLETED.
17. AREAS WITH POOR DRAINAGE CAPACITY OR WITHIN NEW CONSTRUCTION SHALL BE REGARDED AS REQUIRED TO ESTABLISH PROPER DRAIN LEVELS.

EROSION CONTROL:

1. THE EROSION CONTROL MUST ADHERE TO BOTH STATE AND FEDERAL LAWS. THE RESPONSIBILITY FOR IMPLEMENTING EROSION CONTROL MEASURES AND OBTAINING NECESSARY PERMITS AND NOTICES LIES WITH THE CONTRACTOR AND/OR OWNER. "LA JUNTA DE CALIDAD AMBIENTAL" (JCA) AND THE ENVIRONMENTAL PROTECTION AGENCY (EPA), MANDATE PERMITS FOR ALL CONSTRUCTION PROJECTS, INCLUDING SMALL AND LARGE SITES. APPLIED ENGINEERING GROUP ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY NON-COMPLIANCE ISSUES ARISING FROM THE OWNER OR CONTRACTOR.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING GENERAL PERMIT IN COMPLIANCE WITH GOVERNMENTAL AGENCY AND FOR THE IMPLEMENTATION OF A STORMWATER POLLUTION PREVENTION PLAN (CES PLAN) ACCORDING TO REQUIREMENTS AND APPLICABLE LAWS.
3. EXISTING VEGETATION SHALL BE PRESERVED BY CONTRACTOR, WHEN POSSIBLE. ANY DISTURBED AREA MUST BE STABILIZED WHEN CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. STABILIZATION MUST IMMEDIATELY, MEANING WITHIN 2 WEEKS (14 DAYS) OF END OF ACTIVITIES UNLESS CONSTRUCTION WILL RESUME NO LATER THAN 21 DAYS.
4. ALL EROSION CONTROL DEVICES SPECIFIED IN THE APPROVED EROSION CONTROL PLAN, SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
5. EROSION CONTROL PLAN IS SUBJECT TO REVISIONS AND/OR ADDITIONAL EROSION CONTROL DEVICES IF REQUIRED THROUGHOUT PROJECT ACTIVITIES, IF AN APPROVED PLAN CANNOT CONTROL EROSION OR OFF-SITE SEDIMENTATION.
6. THE CONTRACTOR IS OBLIGATED TO MANAGE SILT AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND APPLICABLE REGULATIONS. UPON THE INSTALLATION OR COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF SUFFICIENT VEGETATION TO PREVENT EROSION, THE CONTRACTOR MUST REMOVE ALL TEMPORARY EROSION CONTROL DEVICES. ANY HARM CAUSED TO ADJACENT PROPERTIES, DOWNSTREAM CHANNELS, WETLANDS, WATERWAYS, OR WILDLIFE IS THE RESPONSIBILITY OF THE CONTRACTOR, WHO MUST RECTIFY SUCH DAMAGE AT THEIR OWN EXPENSE.
7. AT NO ADDITIONAL COST TO OWNER, CONTRACTOR IS REQUIRED TO TAKE ALL AVAILABLE AND/OR NECESSARY PRECAUTIONS TO CONTROL DUST.

THE DRAWING DEPICTS THE GENERAL SCHEME OF THE PROJECT AND IS NOT TO BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.



ISSUE	DATE
ISSUE FOR REVIEW	10/23/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
REVISION	04/13/2024
REVISION	04/17

**PROPOSED SITE PLAN
GENERAL NOTES**

**CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00877**

PROPOSED PROJECT

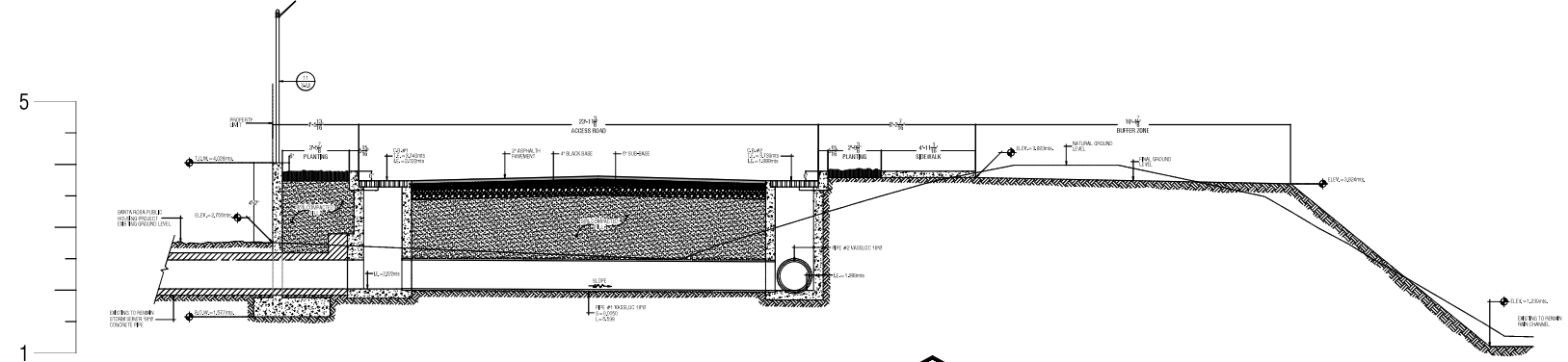
APRIL 2024
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SI-4

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED STORM SEWER SITE PLAN
 SCALE: 1 : 20 M

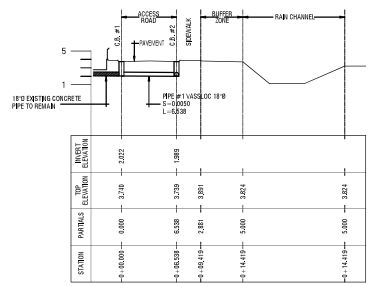
PUBLIC PARKING SPACES FROM MUNICIPALITY OF RINCON, PUERTO RICO
 Storm Sewer Design

Area #	Area (sqm)	Area (sqft)	Spac. Unit	C	1/24th Day	24h Day	Total # of Cars	Interv.	Notes	Id
Area #1	245,323	2,639,724	0.005	0.00	12,162	123,375	11,121	112	03/09/2023	14826
Area #2	278,523	2,983,952	0.005	0.00	11,324	115,355	10,221	103	03/09/2023	14827
Area #3	139,491	1,493,707	0.005	0.00	5,662	57,678	5,100	51	03/09/2023	14828
Area #4	174,225	1,862,475	0.005	0.00	7,169	73,700	6,600	66	03/09/2023	14829
Area #5	118,203	1,268,232	0.005	0.00	4,726	48,270	4,254	42	03/09/2023	14830
Area #6	148,307	1,583,224	0.005	0.00	5,944	60,451	5,350	53	03/09/2023	14831
Area #7	172,472	1,836,953	0.005	0.00	6,897	70,980	6,299	62	03/09/2023	14832
Area #8	184,174	1,967,837	0.005	0.00	7,365	75,660	6,629	66	03/09/2023	14833
Area #9	122,524	1,316,911	0.005	0.00	4,900	50,000	4,400	44	03/09/2023	14834
Area #10	135,324	1,448,911	0.005	0.00	5,400	55,000	4,800	48	03/09/2023	14835
Area #11	152,324	1,629,911	0.005	0.00	6,000	61,000	5,200	52	03/09/2023	14836
Area #12	165,324	1,760,911	0.005	0.00	6,600	67,000	5,800	58	03/09/2023	14837
Area #13	178,324	1,901,911	0.005	0.00	7,200	73,000	6,400	64	03/09/2023	14838
Area #14	191,324	2,042,911	0.005	0.00	7,800	79,000	6,900	69	03/09/2023	14839
Area #15	204,324	2,183,911	0.005	0.00	8,400	85,000	7,400	74	03/09/2023	14840
Area #16	217,324	2,324,911	0.005	0.00	9,000	91,000	7,900	79	03/09/2023	14841
Area #17	230,324	2,465,911	0.005	0.00	9,600	97,000	8,400	84	03/09/2023	14842
Area #18	243,324	2,606,911	0.005	0.00	10,200	103,000	8,900	89	03/09/2023	14843
Area #19	256,324	2,747,911	0.005	0.00	10,800	109,000	9,400	94	03/09/2023	14844
Area #20	269,324	2,888,911	0.005	0.00	11,400	115,000	9,900	99	03/09/2023	14845
Area #21	282,324	3,029,911	0.005	0.00	12,000	121,000	10,400	104	03/09/2023	14846
Area #22	295,324	3,170,911	0.005	0.00	12,600	127,000	10,900	109	03/09/2023	14847
Area #23	308,324	3,311,911	0.005	0.00	13,200	133,000	11,400	114	03/09/2023	14848
Area #24	321,324	3,452,911	0.005	0.00	13,800	139,000	11,900	119	03/09/2023	14849
Area #25	334,324	3,593,911	0.005	0.00	14,400	145,000	12,400	124	03/09/2023	14850
Area #26	347,324	3,734,911	0.005	0.00	15,000	151,000	12,900	129	03/09/2023	14851
Area #27	360,324	3,875,911	0.005	0.00	15,600	157,000	13,400	134	03/09/2023	14852
Area #28	373,324	4,016,911	0.005	0.00	16,200	163,000	13,900	139	03/09/2023	14853
Area #29	386,324	4,157,911	0.005	0.00	16,800	169,000	14,400	144	03/09/2023	14854
Area #30	399,324	4,298,911	0.005	0.00	17,400	175,000	14,900	149	03/09/2023	14855
Area #31	412,324	4,439,911	0.005	0.00	18,000	181,000	15,400	154	03/09/2023	14856
Area #32	425,324	4,580,911	0.005	0.00	18,600	187,000	15,900	159	03/09/2023	14857
Area #33	438,324	4,721,911	0.005	0.00	19,200	193,000	16,400	164	03/09/2023	14858
Area #34	451,324	4,862,911	0.005	0.00	19,800	199,000	16,900	169	03/09/2023	14859
Area #35	464,324	5,003,911	0.005	0.00	20,400	205,000	17,400	174	03/09/2023	14860
Area #36	477,324	5,144,911	0.005	0.00	21,000	211,000	17,900	179	03/09/2023	14861
Area #37	490,324	5,285,911	0.005	0.00	21,600	217,000	18,400	184	03/09/2023	14862
Area #38	503,324	5,426,911	0.005	0.00	22,200	223,000	18,900	189	03/09/2023	14863
Area #39	516,324	5,567,911	0.005	0.00	22,800	229,000	19,400	194	03/09/2023	14864
Area #40	529,324	5,708,911	0.005	0.00	23,400	235,000	19,900	199	03/09/2023	14865
Area #41	542,324	5,849,911	0.005	0.00	24,000	241,000	20,400	204	03/09/2023	14866
Area #42	555,324	5,990,911	0.005	0.00	24,600	247,000	20,900	209	03/09/2023	14867
Area #43	568,324	6,131,911	0.005	0.00	25,200	253,000	21,400	214	03/09/2023	14868
Area #44	581,324	6,272,911	0.005	0.00	25,800	259,000	21,900	219	03/09/2023	14869
Area #45	594,324	6,413,911	0.005	0.00	26,400	265,000	22,400	224	03/09/2023	14870
Area #46	607,324	6,554,911	0.005	0.00	27,000	271,000	22,900	229	03/09/2023	14871
Area #47	620,324	6,695,911	0.005	0.00	27,600	277,000	23,400	234	03/09/2023	14872
Area #48	633,324	6,836,911	0.005	0.00	28,200	283,000	23,900	239	03/09/2023	14873
Area #49	646,324	6,977,911	0.005	0.00	28,800	289,000	24,400	244	03/09/2023	14874
Area #50	659,324	7,118,911	0.005	0.00	29,400	295,000	24,900	249	03/09/2023	14875
Area #51	672,324	7,259,911	0.005	0.00	30,000	301,000	25,400	254	03/09/2023	14876
Area #52	685,324	7,400,911	0.005	0.00	30,600	307,000	25,900	259	03/09/2023	14877
Area #53	698,324	7,541,911	0.005	0.00	31,200	313,000	26,400	264	03/09/2023	14878
Area #54	711,324	7,682,911	0.005	0.00	31,800	319,000	26,900	269	03/09/2023	14879
Area #55	724,324	7,823,911	0.005	0.00	32,400	325,000	27,400	274	03/09/2023	14880
Area #56	737,324	7,964,911	0.005	0.00	33,000	331,000	27,900	279	03/09/2023	14881
Area #57	750,324	8,105,911	0.005	0.00	33,600	337,000	28,400	284	03/09/2023	14882
Area #58	763,324	8,246,911	0.005	0.00	34,200	343,000	28,900	289	03/09/2023	14883
Area #59	776,324	8,387,911	0.005	0.00	34,800	349,000	29,400	294	03/09/2023	14884
Area #60	789,324	8,528,911	0.005	0.00	35,400	355,000	29,900	299	03/09/2023	14885
Area #61	802,324	8,669,911	0.005	0.00	36,000	361,000	30,400	304	03/09/2023	14886
Area #62	815,324	8,810,911	0.005	0.00	36,600	367,000	30,900	309	03/09/2023	14887
Area #63	828,324	8,951,911	0.005	0.00	37,200	373,000	31,400	314	03/09/2023	14888
Area #64	841,324	9,092,911	0.005	0.00	37,800	379,000	31,900	319	03/09/2023	14889
Area #65	854,324	9,233,911	0.005	0.00	38,400	385,000	32,400	324	03/09/2023	14890
Area #66	867,324	9,374,911	0.005	0.00	39,000	391,000	32,900	329	03/09/2023	14891
Area #67	880,324	9,515,911	0.005	0.00	39,600	397,000	33,400	334	03/09/2023	14892
Area #68	893,324	9,656,911	0.005	0.00	40,200	403,000	33,900	339	03/09/2023	14893
Area #69	906,324	9,797,911	0.005	0.00	40,800	409,000	34,400	344	03/09/2023	14894
Area #70	919,324	9,938,911	0.005	0.00	41,400	415,000	34,900	349	03/09/2023	14895
Area #71	932,324	10,079,911	0.005	0.00	42,000	421,000	35,400	354	03/09/2023	14896
Area #72	945,324	10,220,911	0.005	0.00	42,600	427,000	35,900	359	03/09/2023	14897
Area #73	958,324	10,361,911	0.005	0.00	43,200	433,000	36,400	364	03/09/2023	14898
Area #74	971,324	10,502,911	0.005	0.00	43,800	439,000	36,900	369	03/09/2023	14899
Area #75	984,324	10,643,911	0.005	0.00	44,400	445,000	37,400	374	03/09/2023	14900
Area #76	997,324	10,784,911	0.005	0.00	45,000	451,000	37,900	379	03/09/2023	14901
Area #77	1,010,324	10,925,911	0.005	0.00	45,600	457,000	38,400	384	03/09/2023	14902
Area #78	1,023,324	11,066,911	0.005	0.00	46,200	463,000	38,900	389	03/09/2023	14903
Area #79	1,036,324	11,207,911	0.005	0.00	46,800	469,000	39,400	394	03/09/2023	14904
Area #80	1,049,324	11,348,911	0.005	0.00	47,400	475,000	39,900	399	03/09/2023	14905
Area #81	1,062,324	11,489,911	0.005	0.00	48,000	481,000	40,400	404	03/09/2023	14906
Area #82	1,075,324	11,630,911	0.005	0.00	48,600	487,000	40,900	409	03/09/2023	14907
Area #83	1,088,324	11,771,911	0.005	0.00	49,200	493,000	41,400	414	03/09/2023	14908
Area #84	1,101,324	11,912,911	0.005	0.00	49,800	499,000	41,900	419	03/09/2023	14909
Area #85	1,114,324	12,053,911	0.005	0.00	50,400	505,000	42,400	424	03/09/2023	14910
Area #86	1,127,324	12,194,911	0.005	0.00	51,000	511,000	42,900	429	03/09/2023	14911
Area #87	1,140,324	12,335,911	0.005	0.00	51,600	517,000	43,400	434	03/09/2023	14912
Area #88	1,153,324	12,476,911	0.005	0.00	52,200	523,000	43,900	439	03/09/2023	14913
Area #89	1,166,324	12,617,911	0.005	0.00	52,800	529,000	44,400	444	03/09/2023	14914
Area #90	1,179,324	12,758,911	0.005	0.00	53,400	535,000	44,900	449	03/09/2023	14915
Area #91	1,192,324	12,899,911	0.005	0.00	54,000	541,000	45,400	454	03/09/2023	14916
Area #92	1,205,324	13,040,911	0.005	0.00	54,600	547,000	45,900	459	03/09/2023	14917
Area #93	1,218,324	13,181,911	0.005	0.00	55,200	553,000	46,400	464	03/09/2023	14918
Area #94	1,231,324	13,322,911	0.005	0.00	55,800	559,000	46,900	469	03/09/2023	14919
Area #95	1,244,324	13,463,911	0.005	0.00	56,400	565,000	47,400	474	03/09/2023	14920
Area #96	1,257,324	13,604,911	0.005	0.00	57,000	571,000	47,900	479	03/09/2023	14921
Area #97	1,270,324	13,745,9								

THIS DRAWING DEPICTS THE GENERAL SCHEME OF APPLICABLE ENGINEERING FOR THIS PROJECT AND IS INTENDED FOR INFORMATION ONLY. AS AN INSTRUMENT OF THE PROFESSION, IT IS NOT TO BE USED FOR CONSTRUCTION OF THIS PROJECT AND SHALL NOT BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

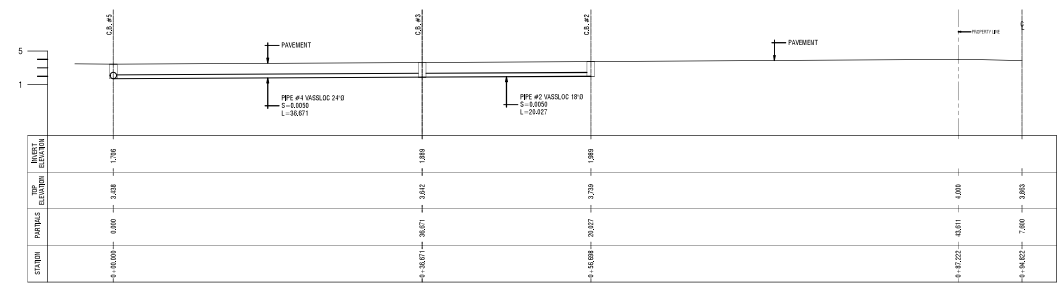


STORM SEWER CROSS SECTION PROFILE
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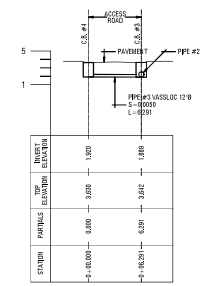


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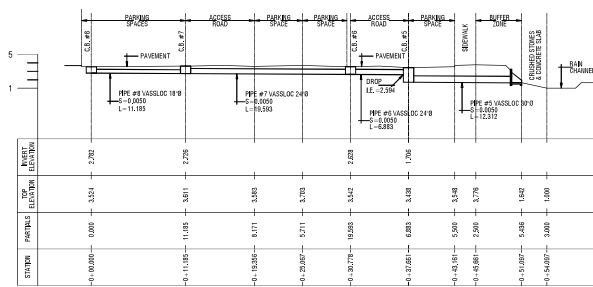
NOTE: SEE SECTION 5-0



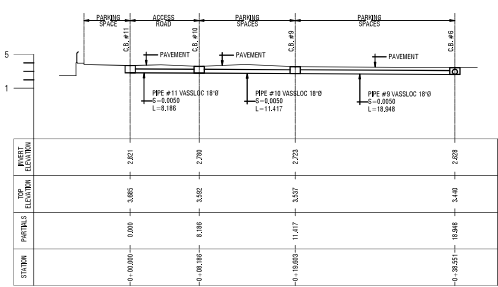
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STORM SEWER PROFILE (CROSS SECTION)
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STORM SEWER PROFILE (LONGITUDINAL SECTION)
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STORM SEWER PROFILE (LONGITUDINAL SECTION)
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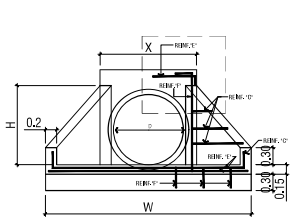
NO.	DATE	REVISION
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PROPOSED SITE PLAN
ESTACIONAMIENTO URBANO
STORM SEWER PROFILES

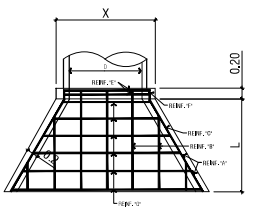
CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PONCE
PR 00677

PROPOSED PROJECT

THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR INFORMATION AS AN INSTRUMENT OF THE PROFESSIONAL ENGINEER'S SERVICE. IT IS NOT TO BE USED FOR CONSTRUCTION OF THIS PROJECT UNLESS IT IS FIRST APPROVED BY APPLIED ENGINEERING GROUP.



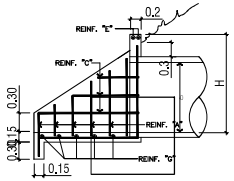
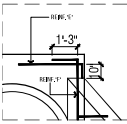
ELEVATION



PLAN

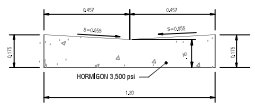
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	W	X	H	L
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24"	1.91	1.08	1.07	0.71
30"	2.31	1.23	1.22	0.94
36"	2.73	1.38	1.37	1.17
42"	3.15	1.54	1.52	1.40
48"	3.57	1.69	1.68	1.63
54"	4.03	1.87	1.83	1.86
60"	4.48	2.04	1.98	2.08
72"	5.23	2.30	2.29	2.54

VAR.	REINFORCEMENT					
	A	B	C	E	F	G
Dia.	5/8"	3/8"	3/8"	3/8"	5/8"	3/8"
Dist.	0.30	0.45	0.30	0.15	0.10	0.45

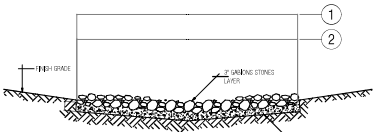


SECTION

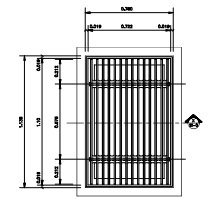
HEADWALL DETAILS
NOT TO SCALE



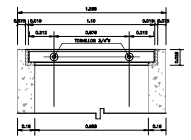
CONCRETE SWALE
SCALE 1:10



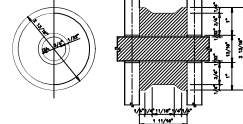
CONCRETE & CRUSHED STONE SWALE DETAIL
NOT TO SCALE



PLANTA DE POCETO PLUVIAL
CON DETALLES DE PARRILLA TÍPICA
ESCALA 1:20

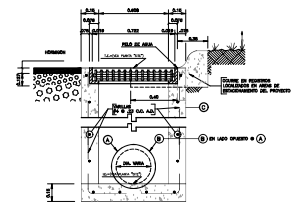


VISTA LATERAL, PARTE SUPERIOR DE POCETO
ESCALA 1:20

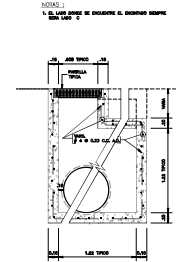


DETALLE DE RODILLOS

CATCH BASIN TYPICAL DETAIL



SECCION
ESCALA 1:20



SECCION ESTRUCTURAL PARA POCETOS
CON PROFUNDIDAD MAYOR @ 2.00
O DIAMETRO DEL TUBO MAYOR @ .608
ESCALA 1:20

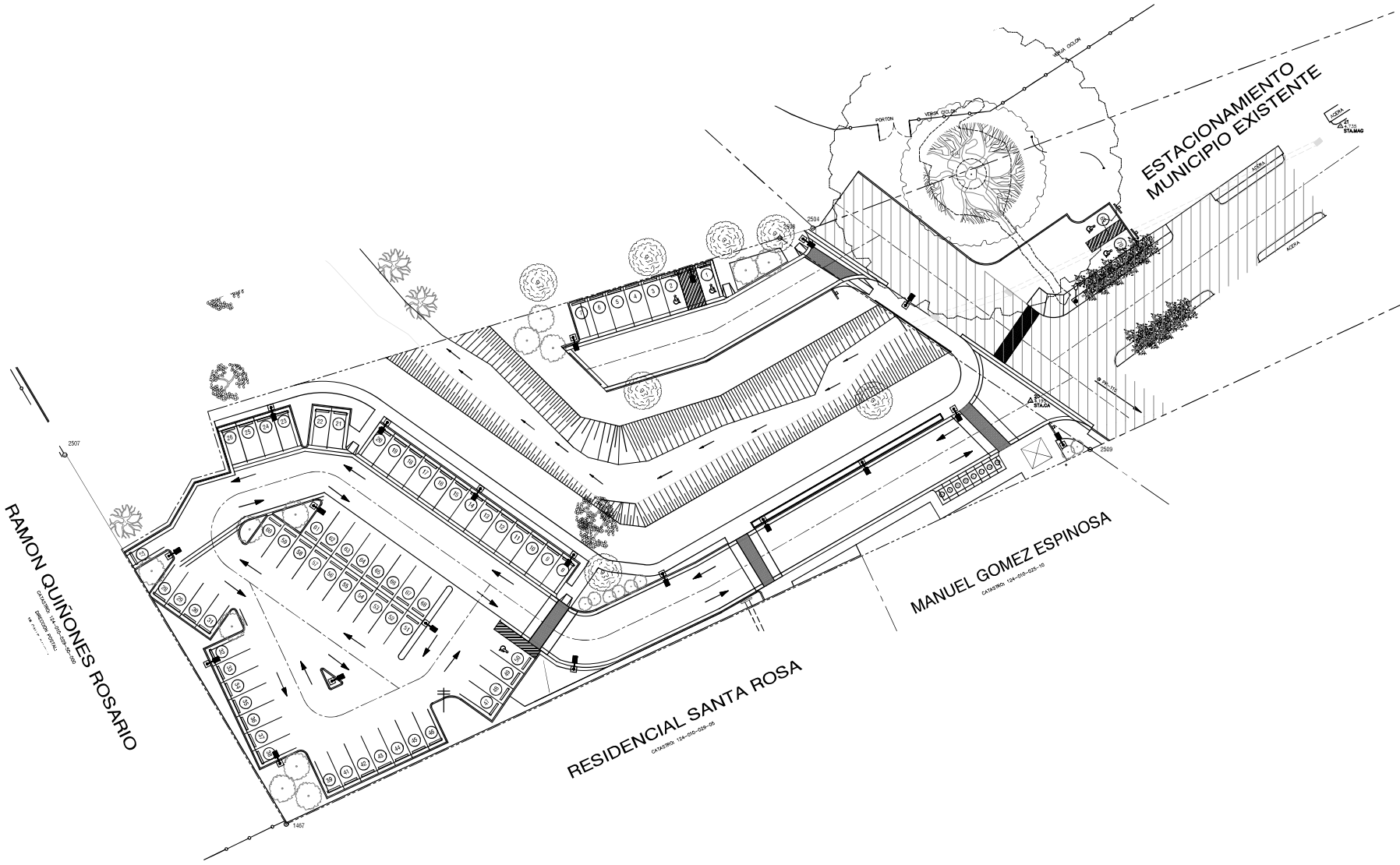
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5	06/13/2024	ISSUE FOR REVIEW
6	06/13/2024	REVISION

PROPOSED SITE PLAN
STORM SEWER TYPICAL
DETAILS

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00877

PROPOSED PROJECT

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED LIGHTING SITE PLAN
 SCALE: 1 : 20 M



THIS DRAWING OBJECTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR REVIEW ONLY AS AN INSTRUMENT OF THE PROFESSIONAL ENGINEERING BOARD OF PRACTICE. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF APPLIED ENGINEERING GROUP.

PROJECT NAME
**CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605**

PROJECT NO.
PR 00677

MUNICIPALITY
MUNICIPIO DE PINCON

SHEET NO.
SI-9

DATE
APRIL 2024

PROJECT TITLE
**PROPOSED SITE PLAN
 PROPOSED LIGHTING SITE
 PLAN**

NO.	DATE	DESCRIPTION
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100	04/20/2024	ISSUE FOR REVIEW


APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING CONSULTANTS
 10 St. Montecarlo Avenue #888 Rto. Piedras, PR 00981
 Phone: 787-771-6071 / Fax: 787-771-6069 / Cell: 787-771-6000

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED SITE PLAN
 SCALE 1: 20M

NOTES

1. INTENDED DESIGN 70 PARKING SPOTS
2. TWO ADA PARKING AS PER ADA COMPLIANCE

L MAR

LEGEND

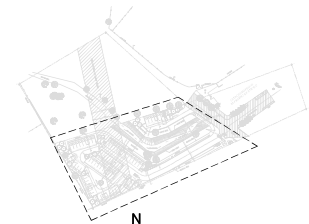


RAMON QUINONES ROSARIO
 ARCHITECT
 10100 HWY 100, SUITE 200
 SAN JUAN, P.R. 00925
 TEL: 787-762-1234
 FAX: 787-762-1235

NEW ELEVATED CROSSWALK

RESIDENCIAL SANTA ROSA
 DATA: 194-005-004-08

MANUEL GOMEZ ESPINOSA
 DATA: 194-005-004-10



N
 Key Plan
 NTS

PROPOSED CONMEMORATIVE PLACARD

ESTACIONAMIENTO MUNICIPIO EXISTENTE

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ISSUE FOR REVIEW	08/03/2025	70

PROPOSED SITE PLAN
 SITE PLAN VIEW

CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE PINCON
 PR 00877

PROPOSED PROJECT

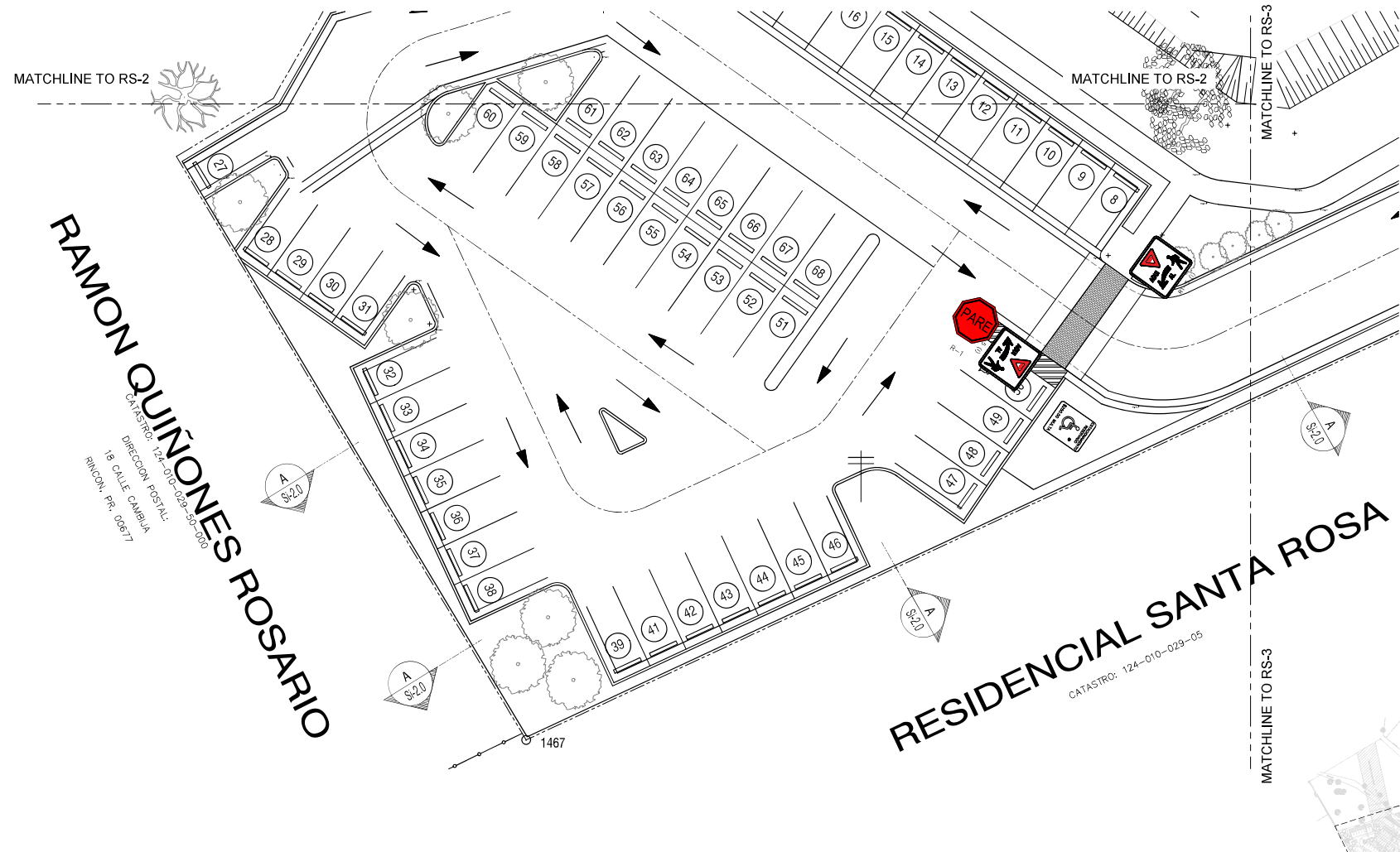
APRIL 2024
 SI-1

APPLIED ENGINEERING GROUP
 10 St. Montezuma Avenue #886 Rto. Piedras, PR 00981
 Phone: 787-771-6801 / Fax: 787-771-6802 / Email: info@appliedengr.com

CONSULET

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ISSUE FOR REVIEW	08/03/2025	70

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED SITE PLAN
 SCALE 1 : 10M



RAMON QUIÑONES ROSARIO
 CATASTRO: 124-010-029-30-2000
 DIRECCION POSTAL:
 18 CALLE CANBILIA
 RINCON, P.R. 00617

RESIDENCIAL SANTA ROSA
 CATASTRO: 124-010-029-05

- NOTES:
1. INTENDED DESIGN 70 PARKING SPOTS
 2. TWO ADA PARKING AS PER ADA COMPLIANCE

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING & SURVEYING
 10 St. Montecore Avenue #886 Rto Piedras, PR 00981
 Phone: 787-587-7871 / Fax: 787-587-7871 - 800 452

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68	04/08/2024	ISSUE FOR REVIEW
69	04/08/2024	ISSUE FOR REVIEW
70	04/08/2024	ISSUE FOR REVIEW

PROPOSED SITE PLAN
SITE PLAN VIEW
ROAD SIGN LOCATIONS

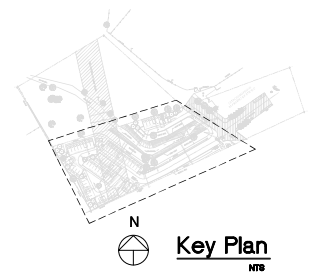
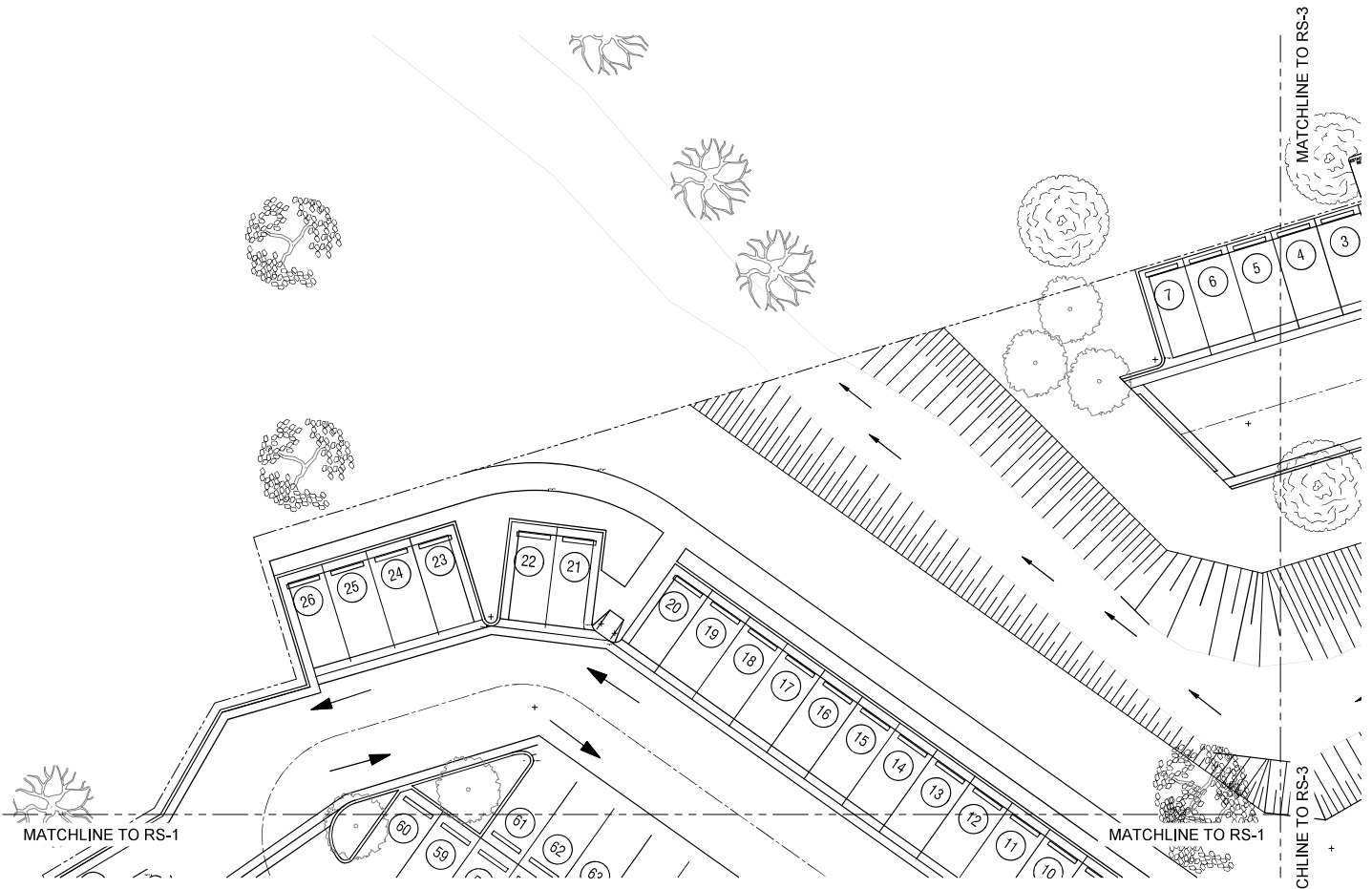
CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE RINCON
PR 00677

PROPOSED PROJECT

APRIL 2024
RS-1

Key Plan
 HTB

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED SITE PLAN
 SCALE 1 : 10M



- NOTES:
1. INTENDED DESIGN 70 PARKING SPOTS
 2. TWO ADA PARKING AS PER ADA COMPLIANCE

NO.	DATE	REVISION
1	02/28/2024	ISSUE FOR REVIEW
2	03/05/2024	ISSUE FOR REVIEW
3	03/12/2024	ISSUE FOR REVIEW
4	03/19/2024	ISSUE FOR REVIEW
5	03/26/2024	ISSUE FOR REVIEW
6	04/02/2024	ISSUE FOR REVIEW
7	04/09/2024	ISSUE FOR REVIEW
8	04/16/2024	ISSUE FOR REVIEW
9	04/23/2024	ISSUE FOR REVIEW
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27	08/27/2024	ISSUE FOR REVIEW
28	09/03/2024	ISSUE FOR REVIEW
29	09/10/2024	ISSUE FOR REVIEW
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31	09/24/2024	ISSUE FOR REVIEW
32	10/01/2024	ISSUE FOR REVIEW
33	10/08/2024	ISSUE FOR REVIEW
34	10/15/2024	ISSUE FOR REVIEW
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36	10/29/2024	ISSUE FOR REVIEW
37	11/05/2024	ISSUE FOR REVIEW
38	11/12/2024	ISSUE FOR REVIEW
39	11/19/2024	ISSUE FOR REVIEW
40	11/26/2024	ISSUE FOR REVIEW
41	12/03/2024	ISSUE FOR REVIEW
42	12/10/2024	ISSUE FOR REVIEW
43	12/17/2024	ISSUE FOR REVIEW
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57	03/25/2025	ISSUE FOR REVIEW
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68	06/10/2025	ISSUE FOR REVIEW
69	06/17/2025	ISSUE FOR REVIEW
70	06/24/2025	ISSUE FOR REVIEW

PROPOSED SITE PLAN
 SITE PLAN VIEW
 ROAD SIGN LOCATIONS

CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE PINCON
 PR 00877

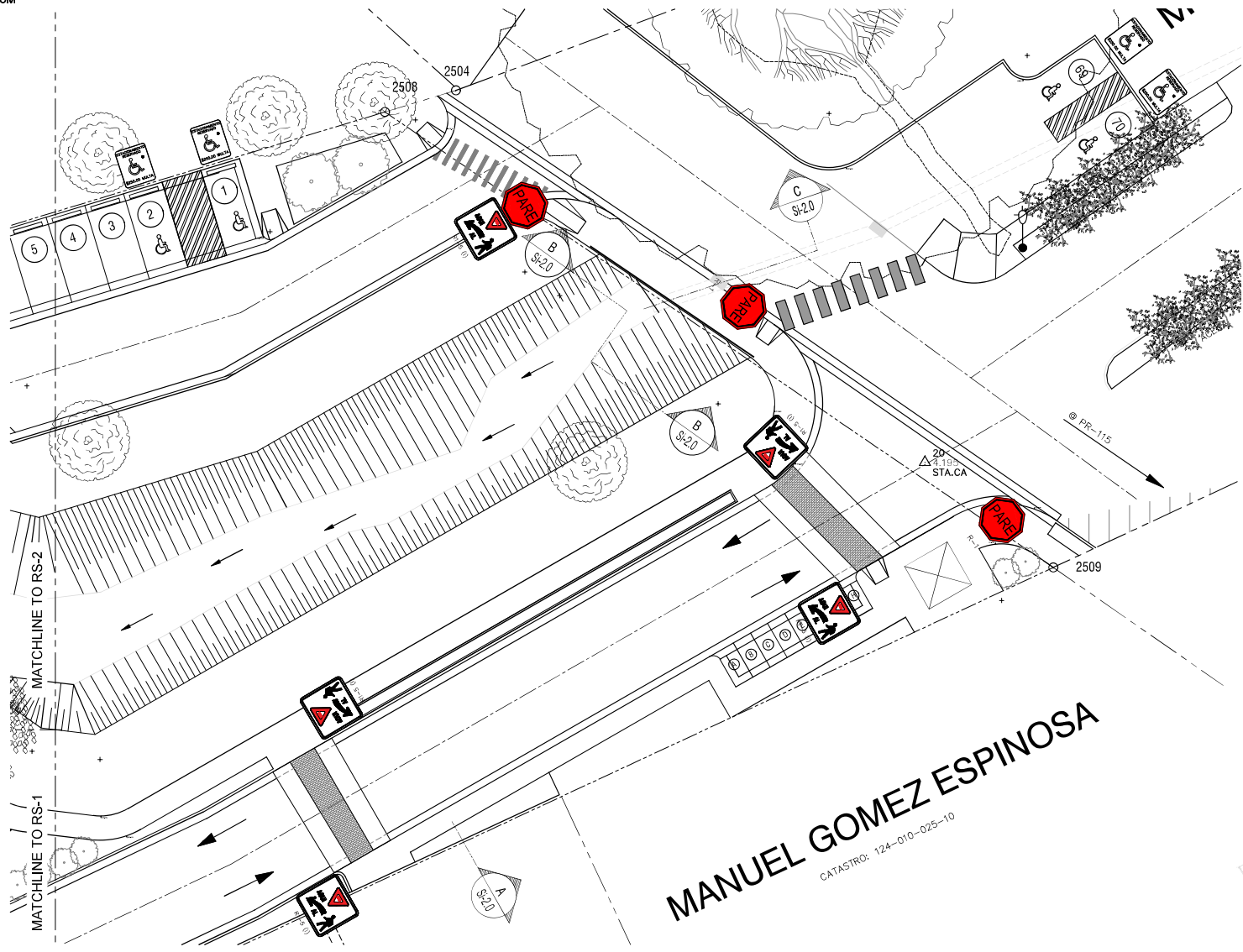
PROPOSED PROJECT

APRIL 2024
 RS-2

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERS & PLANNERS
 10 St. Montecarlo Avenue #886 Rto Piedras, PR 00981
 Phone: 787-587-7871 / Fax: 787-587-7871 - 5000 US

THIS DRAWING DERIVES FROM THE DESIGN REPORT OF APPLIED ENGINEERING GROUP FOR THE PROJECT AND IS ISSUED FOR REVIEW ONLY AS AN INSTRUMENT OF THE PROFESSIONAL ENGINEER'S SEAL. IT IS NOT TO BE USED FOR CONSTRUCTION OR FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 PROPOSED SITE PLAN
 SCALE 1 : 10M



- NOTES:
1. INTENDED DESIGN 70 PARKING SPOTS
 2. TWO ADA PARKING AS PER ADA COMPLIANCE

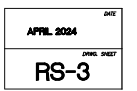
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2	03/06/2024	ISSUE FOR REVIEW
3	03/06/2024	ISSUE FOR REVIEW
4	03/06/2024	ISSUE FOR REVIEW
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100	03/06/2024	ISSUE FOR REVIEW

PROPOSED SITE PLAN
SITE PLAN VIEW
ROAD SIGN LOCATIONS

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINCON
PR 00877

PROPOSED PROJECT

APRIL 2024
 RS-3



EPA Contamination and Toxic Substances



Attachment 7A: EPA Contamination and Toxic Substances

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: NEPA Assist Tool

Website: [hZps://fwsprimary.wim.usgs.gov/CBRMapper-v2/](https://fwsprimary.wim.usgs.gov/CBRMapper-v2/)

Prepared by: Applied Engineering Group

ID	EPA Facility	Distance from Project Site	Direction from Project Site	Description	Compliance Status
1	CWA	3,298.65 ft	N	SINGLE FAMILY RESIDENCE JOHANNA E. CAMACHO	Non Violation identified
2	CWA	2,749.66 ft	NW	PUERTO BAHIA RESIDENTIAL PROJECT	Not Applicable
3	CWA	546.39 ft	SE	MR. ALBERTO SANCHEZ - RINCON	Unknown
4	RCRA	1,161.16 ft	S	MDF INSTRUMENTS CRAFTECH LLC	Non Violation identified
5	RCRA	1,591.18 ft	SW	SURGICAL SPECIALTIES PUERTO RICO INC	Non Violation identified

Attachment 7B: EPA Contamination and Toxic Substances Facilities

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: EPA ECHO REPORTS

Website: <https://echo.epa.gov/facilities/facility-search/results>

Prepared by: Applied Engineering Group

Attachment 7C ECHO Reports



Detailed Facility Report

Facility Summary

SURGICAL SPECIALTIES PUERTO RICO INC

RD 115 KM 12.7 INDUSTRIAL PARK BLDG #2, RINCON, PR 00677

FRS (Facility Registry Service) ID: 110037247921

EPA Region: 02

Latitude: 18.332002

Longitude: -67.25011

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	04/26/2013
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): No Information

Resource Conservation and Recovery Act (RCRA): Active SQG, (PRR000021949)

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		110037247921					N	18.332002	-67.25011
ICIS		1400007368					N	18.335028	-67.252222
RCRAInfo	RCRA	PRR000021949	SQG	Active (H)			N	18.335028	-67.252222

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County

FRS		110037247921	SURGICAL SPECIALTIES PUERTO RICO INC	RD 115 KM 12.7 INDUSTRIAL PARK BLDG #2, RINCON, PR 00677	Rincón Municipio
ICIS		1400007368	SURGICAL SPECIALTIES PUERTO RICO INC	RD 115 KM 12.7 INDUSTRIAL PARK BLDG #2, RINCON, PR 00677	Rincón Municipio
RCRAInfo	RCRA	PRR000021949	SURGICAL SPECIALTIES PUERTO RICO INC	RD 115 KM 12.7 INDUSTRIAL PARK, RINCON, PR 00677	Rincón Municipio

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 Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

Enforcement and Compliance

Compliance Monitoring History

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
RCRA	PRR000021949	No	06/21/2025	0	06/20/2025

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
RCRA (Source ID: PRR000021949)		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	10/01-12/31/24	01/01-03/31/25
	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
	Violation											
	Agency											

Informal Enforcement Actions

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

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?
No data records returned						

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
No data records returned										

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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
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No data records returned

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

Chemical Name

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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	3,777	Children 5 years and younger	207 (5%)
Population Density	1,936/sq.mi.	Minors 17 years and younger	566 (15%)
Housing Units in Area	2,709	Adults 18 years and older	3,210 (85%)
Percent People of Color	95%	Seniors 65 years and older	972 (26%)
Households in Area	1,525		
Households on Public Assistance	61	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	2,631	White	1,772 (47%)
Percent With Low Income	70%	African-American	135 (4%)
		Hispanic-Origin	3,585 (95%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	0 (0%)
		Other/Multiracial	209 (6%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	411 (14.52%)
Center Latitude	18.332002	9th through 12th Grade	205 (7.24%)
Center Longitude	-67.25011	High School Diploma	894 (31.58%)
Total Area	3.121 sq.mi.	Some College/2-year	351 (12.4%)
Land Area	63%	B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	647 (22.85%)
Water Area	37%		
Income Breakdown (ACS (American Community Survey)) - Households (%)			
Less than \$15,000	488 (32%)		
\$15,000 - \$25,000	249 (16.33%)		
\$25,000 - \$50,000	413 (27.08%)		
\$50,000 - \$75,000	168 (11.02%)		
Greater than \$75,000	207 (13.57%)		



Detailed Facility Report

Facility Summary

MDF INSTRUMENTS CRAFTECH LLC

PR-115 KM 12.8 BO PUEBLO, RINCON, PR 00677

FRS (Facility Registry Service) ID: 110070733056

EPA Region: 02

Latitude: 18.332475

Longitude: -67.250346

Locational Data Source: RCRAINFO

Industries: Miscellaneous Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	06/28/2013
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): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000026641)

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details
 Known Data Problems <<https://epa.gov/resources/echo-data/known-data-problems>>

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070733056					N	18.332475	-67.250346
RCRAInfo	RCRA	PRR000026641	VSQG	Active (H)			N	18.332475	-67.250346

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070733056	MDF INSTRUMENTS CRAFTECH LLC	PR-115 KM 12.8 BO PUEBLO, RINCON, PR 00677	Rincón Municipio

RCRAInfo	RCRA	PRR000026641	MDF INSTRUMENTS CRAFTTECH LLC	PR-115 KM 12.8 BO PUEBLO, RINCON, PR 00677	Rincón Municipio
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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
RCRAInfo	PRR000026641	339112	Surgical and Medical Instrument Manufacturing

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
RCRA	PRR000026641	No	06/21/2025	0	06/20/2025

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
RCRA (Source ID: PRR000026641)		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	10/01-12/31/24	01/01-03/31/25
	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
	Violation	Agency										

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?
No data records returned						

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
No data records returned										

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				

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
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No data records returned

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

Chemical Name

No data records returned

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 3/22/2025)

Source ID	Waste Description	2022	2023	2024	2025
PRR000026641	Hazardous Waste	18	--	--	--
PRR000026641	Acute Hazardous Waste	0	--	--	--
PRR000026641	Pharmaceutical Hazardous Waste	0	--	--	--

“Pharmaceutical Hazardous Waste” refers to quantities managed under 40 CFR part 266 subpart P and thus excluded from the Hazardous and Acute Hazardous Waste quantities shown above.

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	3,761
Population Density	1,922/sq.mi.
Housing Units in Area	2,701
Percent People of Color	95%
Households in Area	1,526
Households on Public Assistance	61
Persons With Low Income	2,613
Percent With Low Income	69%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.332475
Center Longitude	-67.250346
Total Area	3.121 sq.mi.
Land Area	63%
Water Area	37%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	491 (32.18%)
\$15,000 - \$25,000	254 (16.64%)
\$25,000 - \$50,000	406 (26.61%)
\$50,000 - \$75,000	168 (11.01%)
Greater than \$75,000	207 (13.56%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	203 (5%)
Minors 17 years and younger	559 (15%)
Adults 18 years and older	3,201 (85%)
Seniors 65 years and older	974 (26%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,759 (47%)
African-American	134 (4%)
Hispanic-Origin	3,570 (95%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	208 (6%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	412 (14.58%)
9th through 12th Grade	199 (7.04%)
High School Diploma	896 (31.71%)
Some College/2-year	351 (12.42%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	647 (22.89%)



Detailed Facility Report

Facility Summary

MR. ALBERTO SANCHEZ - RINCON

**PR-413, KM 4.3 RINCON, PR, RINCON,
PR 00677**

FRS (Facility Registry Service) ID: 110071948868

EPA Region: 02

Latitude: 18.33853

Longitude: -67.246777

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	05/21/2025
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
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

Other Regulatory Reports

Clean Air Act (CAA): No Information
Clean Water Act (CWA): No Information
Resource Conservation and Recovery Act (RCRA): No Information
Safe Drinking Water Act (SDWA): No Information

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		110071948868					N	18.33853	-67.246777
ICIS		3601837424					N	18.3598721	-67.2545603

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071948868	MR. ALBERTO SANCHEZ - RINCON	PR-413, KM 4.3 RINCON, PR, RINCON, PR 00677	
ICIS		3601837424	MR. ALBERTO SANCHEZ - RINCON	PR-413, KM 4.3 RINCON, PR, RINCON, PR 00677	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
CWA	3601837424	ICIS	Inspection/Evaluation	Evaluation (IU)	EPA	05/21/2025	

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
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No data records returned

Three-Year Compliance History by Quarter

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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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
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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?
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No data records returned

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
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No data records returned

Air Quality Nonattainment Areas

Within Nonattainment	Nonattainment Status Applicable	Within Maintenance Status	Maintenance Status Applicable
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Pollutant	Status Area?	Standard(s)	Area?	Standard(s)
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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
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No data records returned

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

Chemical Name

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	4,318
Population Density	1,661/sq.mi.
Housing Units in Area	2,950
Percent People of Color	96%
Households in Area	1,796
Households on Public Assistance	64
Persons With Low Income	2,969
Percent With Low Income	69%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.33853
Center Longitude	-67.246777
Total Area	3.121 sq.mi.
Land Area	83%
Water Area	17%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	613 (34.19%)
\$15,000 - \$25,000	332 (18.52%)
\$25,000 - \$50,000	417 (23.26%)
\$50,000 - \$75,000	185 (10.32%)
Greater than \$75,000	246 (13.72%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	214 (5%)
Minors 17 years and younger	614 (14%)
Adults 18 years and older	3,705 (86%)
Seniors 65 years and older	1,172 (27%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,837 (43%)
African-American	154 (4%)
Hispanic-Origin	4,102 (95%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	276 (6%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	519 (15.58%)
9th through 12th Grade	188 (5.64%)
High School Diploma	1,042 (31.28%)
Some College/2-year	408 (12.25%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	773 (23.21%)



Detailed Facility Report

Facility Summary

PUERTO BAHIA RESIDENTIAL PROJECT

ROAD PR-413, KM. 1, RINCON, PR 00677

FRS (Facility Registry Service) ID: 110070388979

EPA Region: 02

Latitude: 18.345222

Longitude: -67.258083

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	10/04/2018
Compliance Status	Not Applicable
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	1
Penalties from Formal Enforcement Actions (5 years)	\$52,847
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, (PRU065467)

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		110070388979					N	18.345222	-67.258083
ICIS-NPDES	CWA	PRU065467	Non-Major: Unpermitted Facility				N	18.345222	-67.258083

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070388979	PUERTO BAHIA RESIDENTIAL PROJECT	ROAD PR-413, KM. 1, RINCON, PR 00677	Rincón Municipio
ICIS-NPDES	CWA	PRU065467	PUERTO BAHIA RESIDENTIAL PROJECT	ROAD PR-413, KM. 1, RINCON, PR 00677	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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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	PRU065467	No	03/31/2025	0	06/20/2025

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
CWA (Source ID: PRU065467)		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	10/01-12/31/24
	Facility-Level Status	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Quarterly Noncompliance Report History											

Informal Enforcement Actions Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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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
CWA	ICIS-NPDES	301	NPDES/PRU065467	Administrative - Formal	02-2019-3451	EPA	Puerto Bahia Residential Construction Project et al.	09/06/2019	1	09/14/2020	\$52,847	\$0	--	\$0	\$0

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?
210100030214	Unnamed Coastal Watersheds West of Cano La Puente mouth	--	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	2024	PRWQ90A	QUEBRADA PUNTA ENESENADA	Unknown - With Restoration Plan	--	Not Assessed	Insufficient Information	--	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))		Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Total Persons	2,512	Children 5 years and younger	74 (3%)
Population Density	1,248/sq.mi.	Minors 17 years and younger	328 (13%)
Housing Units in Area	1,962	Adults 18 years and older	2,185 (87%)
Percent People of Color	94%	Seniors 65 years and older	788 (31%)
Households in Area	1,115		
Households on Public Assistance	29	Race Breakdown (ACS (American Community Survey)) - Persons (%)	
Persons With Low Income	1,728	White	1,121 (45%)
Percent With Low Income	69%	African-American	60 (2%)
		Hispanic-Origin	2,338 (93%)
		Asian	0 (0%)
		Hawaiian/Pacific Islander	0 (0%)
		American Indian	0 (0%)
		Other/Multiracial	120 (5%)
Geography		Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Radius of Selected Area	1 mi.	Less than 9th Grade	296 (14.72%)
Center Latitude	18.345222	9th through 12th Grade	65 (3.23%)
Center Longitude	-67.258083	High School Diploma	612 (30.43%)
Total Area	3.121 sq.mi.	Some College/2-year	285 (14.17%)
Land Area	64%	B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	484 (24.07%)
Water Area	36%		
Income Breakdown (ACS (American Community Survey)) - Households (%)			
Less than \$15,000	342 (30.7%)		
\$15,000 - \$25,000	270 (24.24%)		
\$25,000 - \$50,000	208 (18.67%)		
\$50,000 - \$75,000	135 (12.12%)		
Greater than \$75,000	159 (14.27%)		



Detailed Facility Report

Facility Summary

SINGLE FAMILY RESIDENCE JOHANNA E. CAMACHO

ROAD PR-413 KM. 1.3, RINCON, PR 00677

FRS (Facility Registry Service) ID: 110070885124

EPA Region: 02

Latitude: 18.3484

Longitude: -67.2542

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 Expired (PRR1000BE)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Go To Enforcement/Compliance Details

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

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110070885124					N	18.3484	-67.2542
ICIS-NPDES	CWA	PRR1000BE	Non-Major: General Permit Covered Facility	Expired	Construction Stormwater	02/15/2022	N	18.3484	-67.2542

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070885124	SINGLE FAMILY RESIDENCE JOHANNA E. CAMACHO	ROAD PR-413 KM. 1.3, RINCON, PR 00677	Rincón Municipio
ICIS-NPDES	CWA	PRR1000BE	SINGLE FAMILY RESIDENCE JOHANNA E. CAMACHO	ROAD PR-413 KM. 1.3, RINCON, PR 00677	

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	PRR1000BE	No	03/31/2025	0	06/20/2025

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
CWA (Source ID: PRR1000BE)		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	10/01-12/31/24
	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
	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?
210100030214	Unnamed Coastal Watersheds West of Cano La Puente mouth	ENSENADA CREEK THAT DISCHARGES TO THE CARIBBEAN SE	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	2024	PRWQ90A	QUEBRADA PUNTA ENSENADA	Unknown - With Restoration Plan	--	Not Assessed	Insufficient Information	--	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	2,986
Population Density	1,203/sq.mi.
Housing Units in Area	2,329
Percent People of Color	94%
Households in Area	1,308
Households on Public Assistance	41
Persons With Low Income	2,077
Percent With Low Income	70%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.3484
Center Longitude	-67.2542
Total Area	3.121 sq.mi.
Land Area	80%
Water Area	20%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	393 (29.95%)
\$15,000 - \$25,000	323 (24.62%)
\$25,000 - \$50,000	253 (19.28%)
\$50,000 - \$75,000	154 (11.74%)
Greater than \$75,000	189 (14.41%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	83 (3%)
Minors 17 years and younger	382 (13%)
Adults 18 years and older	2,603 (87%)
Seniors 65 years and older	959 (32%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	1,328 (44%)
African-American	69 (2%)
Hispanic-Origin	2,775 (93%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	141 (5%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	351 (14.63%)
9th through 12th Grade	82 (3.42%)
High School Diploma	726 (30.26%)
Some College/2-year	331 (13.8%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	558 (23.26%)

Attachment 7D Lead and Asbestos testing Report

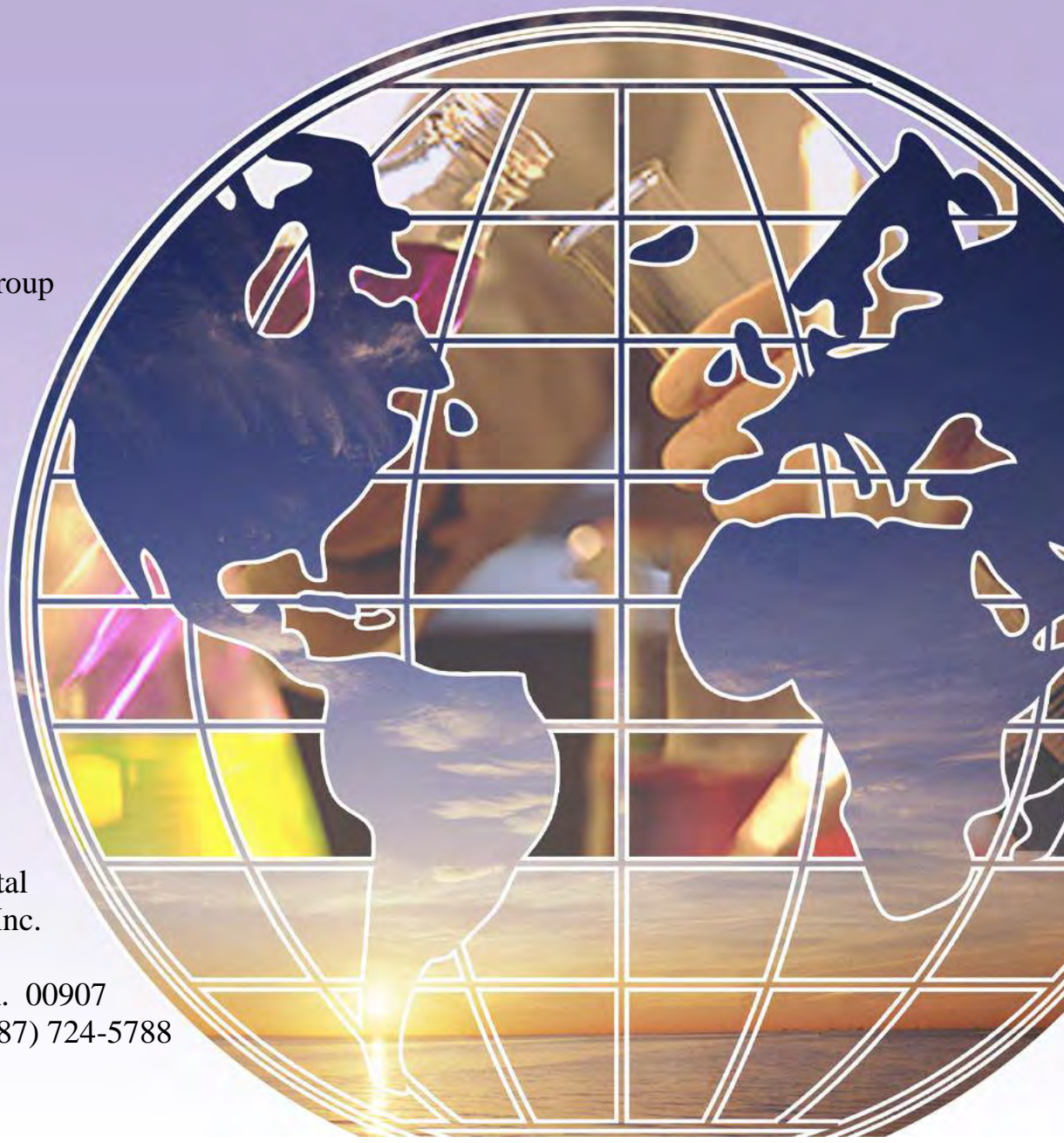


**ENVIRONMENTAL SURVEY
FOR
LEAD BASED PAINT (LBP)
AND
ASBESTOS CONTAINING MATERIALS (ACM)
FOR THE
NEW PARKING OF THE RINCÓN URBAN CENTER
RINCÓN, PUERTO RICO**

Prepared For:
Applied Engineering Group

March 2024

Analytical Environmental
Services International, Inc.
611 Monserrate Street
2nd Floor, Santurce, P.R. 00907
(787)722-0220 / Fax (787) 724-5788



LEAD



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I. SUMMARY

AES International was contracted by Applied Engineering to perform a Lead Based Paint (LBP) survey for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico.

The LBP investigation was conducted on 03/07/2024 by Abraham Rodríguez, a certified DRNA Lead Inspector.

The following components were found to be painted with LBP:

Structure/Room	Components	Substrate	Color	Quantity
<u>Public Parking</u>				
South Park	Bench Support	Metal	Yellow	8 ln.ft.
PR-115	Right Curb	Concrete	Yellow	16 ln.ft.

If demolition, or renovation activities, are conducted in the nearest future it is recommended to establish a lead hazard control strategy that will account for the potential LBP risks present in the facility.

1.0 INTRODUCTION

A survey for Lead Based Paint (LBP) was conducted by Analytical Environmental Services International, Inc. (AES International) for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico.

The LBP investigation was conducted on 03/07/2024 by Abraham Rodríguez, a certified DRNA Lead Inspector. The credentials of AESI are attached in Appendix I. The survey was performed with an XRF instrument Model Pb200i (3115) manufactured by Heuresis. The survey was conducted using HUD protocol of 1997, revised in 2012.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i (see PCS in Appendix II). The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the department of Housing & Urban development as 1.0 mg/cm², as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% by weight (or 5,000 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 only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997. In accordance with the new protocol, almost all surfaces present in the units must be tested. The above guidelines were used to perform lead-based paint testing for this project.

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

1. Perform inventory of all testing combinations.
2. Select painted area to be tested.
3. Perform XRF testing (including calibration checks).
4. Collect and analyze paint chip samples, for inconclusive results.
5. Classify XRF and paint chips results.
6. Review and evaluate the data.
7. Report findings.

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas. Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was ± 0.2 mg/cm². The data for calibration verification is attached in Appendix III.

One testing combination of similar components were tested for each area equivalent.

At the completion of the testing, ten (10) surfaces were retested to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

4.1 Results of XRF Inspection

The results of the tested components are shown in Appendix III. Twenty-five (25) XRF readings were taken. LBP components were found and presented herein. Selective photos are shown in Appendix IV.

5.0 CONCLUSIONS

An LBP survey was conducted for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico. LBP findings were presented herein.

Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden surfaces or components be present, they must be assumed to be painted with LBP. Reported results are valid for the day of testing indicated in the reports. According to DNRA the LBP study is valid for a period of five years.



Abraham Rodriguez
DRNA Lead Inspector
Lic#: LBPI-33923-413

Table 1. Summary of LBP Positive Components at the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico

Structure/Room	Components	Substrate	Color	Quantity
<u>Public Parking</u>				
South Park	Bench Support	Metal	Yellow	8 ln.ft.
PR-115	Right Curb	Concrete	Yellow	16 ln.ft.

Appendix I





AIHA Laboratory Accreditation Programs, LLC
acknowledges that
Analytical Environmental Services International, Inc.
611 Monserrate St. Suite 2 Santurce, PR 00907
Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

<input checked="" type="checkbox"/>	INDUSTRIAL HYGIENE	Accreditation Expires: July 01, 2025
<input checked="" type="checkbox"/>	ENVIRONMENTAL LEAD	Accreditation Expires: July 01, 2025
<input type="checkbox"/>	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
<input type="checkbox"/>	FOOD	Accreditation Expires:
<input type="checkbox"/>	UNIQUE SCOPES	Accreditation Expires:
<input type="checkbox"/>	BERYLLIUM FIELD/MOBILE	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

A handwritten signature in cursive script that reads 'Cheryl O. Morton'.

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

United States Environmental Protection Agency

This is to certify that



AES International, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint renovation, repair, and painting activities pursuant to 40 CFR Part 745.89

In the Jurisdiction of:

All EPA Administered States, Tribes, and Territories

This certification is valid from the date of issuance and expires November 15, 2025

NAT-87801-3

Certification #

September 04, 2020

Issued On



A handwritten signature in black ink that reads "Michelle Price".

Michelle Price, Chief

Lead, Heavy Metals, and Inorganics Branch



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Analytical Environmental Services International (AESI)

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-07323-012

Fecha de emisión: Abril 6, 2023

Fecha de Expiración: Abril 5, 2024





José Roque Juliá
Jefe
División Desperdicios Tóxicos

DRNA Lead Inspector Credentials



Appendix II



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL 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 using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

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.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

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.

Conduct XRF re-testing 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 and multi-family housing, a result is defined as 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 the 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 readings.

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

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:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm²)	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) 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. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

Appendix III



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Group
Project Name: LBP Survey for the New Parking of the Rincón Urban Center
Address: Rincón, Puerto Rico

Date: 3/7/2024
 Inspector: Abraham Rodríguez
 XRF Serial No.: 3115

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)
1					Calibration	1.0
2					Calibration	1.0
3					Calibration	1.1
4	South Park	Park	Concrete	Gray	Ramp	0.0
5	South Park	Park	Concrete	Gray	Ramp	0.1
6	South Park	Park	Metal	Yellow	Bench Support	1.6
7	South Park	Park	Metal	Gray	Bench Support	0.1
8	South Park	Park	Concrete	Red	Left Wall	0.3
9	South Park	Park	Metal	Cream	Security Pole	0.1
10	South Park	Park	Metal	Red	Pole on Ground	0.2
11	South Park	PR-115 (Progreso St. Extension)	Concrete	Yellow	Right Curb	2.2
12	South Park	PR-115 (Progreso St. Extension)	Concrete	Yellow	Left Curb	0.2
13	South Park	PR-115 (Progreso St. Extension)	Concrete	Blue	Handicapped Ramp	0.3
14	Municipal Parking	West Parking	Metal	Gray	Bench Support	0.2
15	Municipal Parking	West Parking	Metal	Gray	Pole	0.1

Approved By: Ady Padan Ph.D.

Date: 3/7/2024

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Group
Project Name: LBP Survey for the New Parking of the Rincón Urban Center
Address: Rincón, Puerto Rico

Date: 3/7/2024
 Inspector: Abraham Rodríguez
 XRF Serial No.: 3115

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)
16	Municipal Parking	West Side	Concrete	Yellow	Wheel Stop	0.2
17	Municipal Parking	West Side	Asphalt	Yellow	Parking Line	0.3
18	Municipal Parking	West Side	Concrete	Yellow	Entrance Curb	0.2
19	Municipal Parking	South Side	Concrete	Blue	Entrance Curb	0.2
20	Municipal Parking	South Side	Concrete	Yellow	Handicapped Ramp	0.4
21	Municipal Parking	South Side	Concrete	Yellow	Curb	0.3
22	Municipal Parking	Northwest Side	Concrete	Gray	Entrance Curb	0.3
23	Municipal Parking	Northwest Side	Metal	Yellow	Pole	0.2
24	Municipal Parking	Northwest Side	Concrete	Yellow	Wheel Stop	0.2
25	Municipal Parking	Northwest Side	Metal	Yellow	Parking Line	0.2
26	Municipal Parking	Northwest Side	Concrete	Gray	Water Valve Column	0.3
27	Municipal Parking	Northwest Side	Concrete	Yellow	Pole	0.2
28	Municipal Parking	Northwest Side	Concrete	Blue	Electric Column	0.3

RE-TESTING

29	Municipal Parking	South Side	Concrete	Blue	Entrance Curb	0.2
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Approved By: Ady Padan Ph.D.

Date: 3/7/2024

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd Floor, Santurce, Puerto Rico 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering Group
Project Name: LBP Survey for the New Parking of the Rincón Urban Center
Address: Rincón, Puerto Rico

Date: 3/7/2024
 Inspector: Abraham Rodríguez
 XRF Serial No.: 3115

Reading #	Building	Room	Substrate	Color	Component & Location	XRF Reading (mg/cm ²)
30	Municipal Parking	South Side	Concrete	Yellow	Handicapped Ramp	0.4
31	Municipal Parking	South Side	Concrete	Yellow	Curb	0.3
32	Municipal Parking	Northwest Side	Concrete	Gray	Entrance Curb	0.3
33	Municipal Parking	Northwest Side	Metal	Yellow	Pole	0.2
34	Municipal Parking	Northwest Side	Concrete	Yellow	Wheel Stop	0.2
35	Municipal Parking	Northwest Side	Metal	Yellow	Parking Line	0.2
36	Municipal Parking	Northwest Side	Concrete	Gray	Water Valve Column	0.3
37	Municipal Parking	Northwest Side	Concrete	Yellow	Pole	0.2
38	Municipal Parking	Northwest Side	Concrete	Blue	Electric Column	0.1
39					Calibration	1.0
40					Calibration	1.1
41					Calibration	1.0

Appendix IV



**Site Location: New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward
Rincón, Puerto Rico**



Selective Photos



General View
Parking Area



LBP Yellow Concrete Curb,
State Road PR-115

Selective Photos

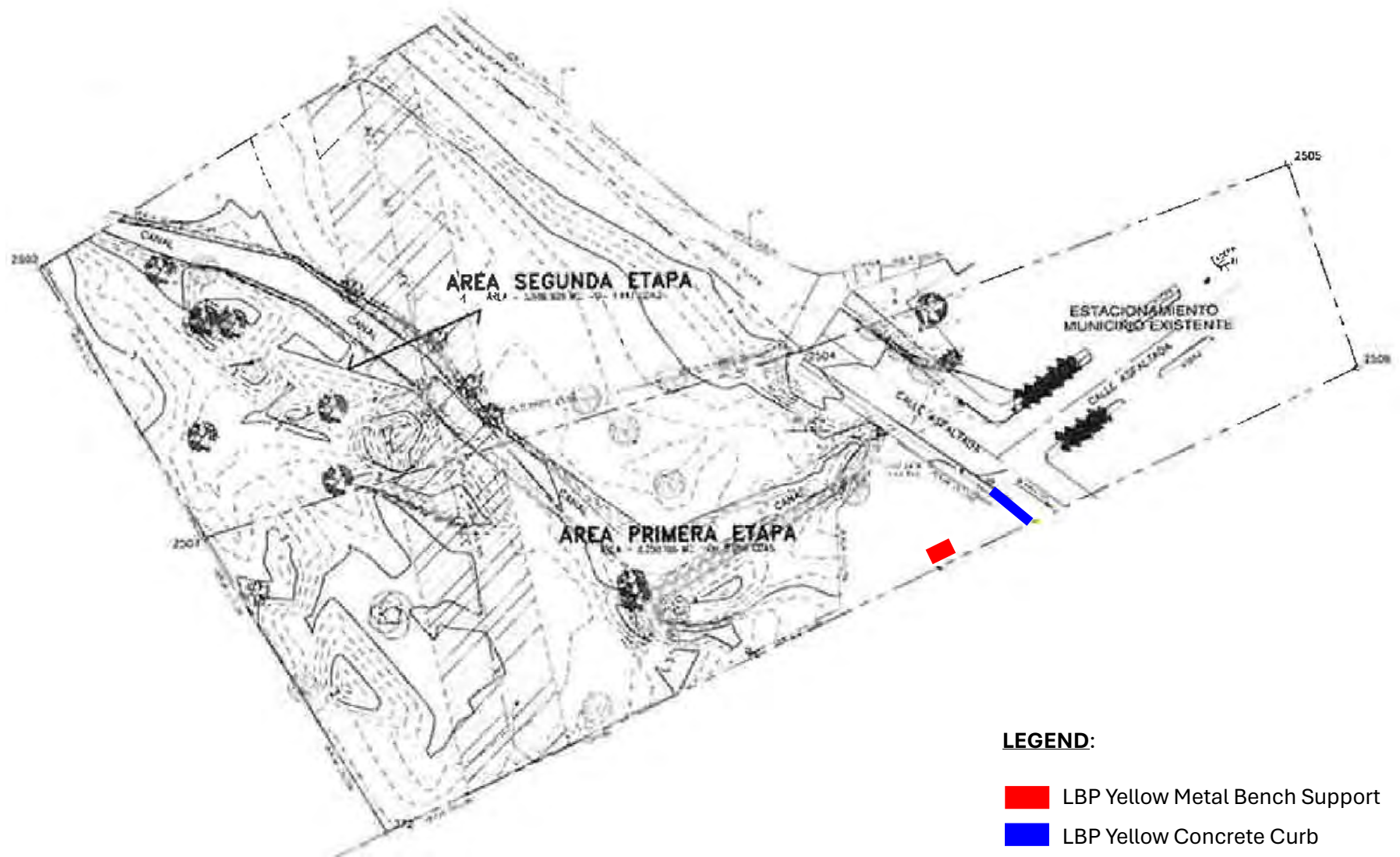


LBP Yellow Metal Bench Support,
South Park

Appendix V



Schematic Distribution of LBP Components at New Parking of the Rincón Urban Center Rincón, Puerto Rico



ASBESTOS



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7.0 CONCLUSIONS

APPENDIX I - AESI Certifications and Accreditations

APPENDIX II - Hazard Assessment

APPENDIX III - Site Location and General View Photo

I. SUMMARY

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AES International), Inc. for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico.

The inspection was conducted on 03/07/2024 by Abraham Rodríguez, a DRNA/AHERA certified asbestos inspector.

No suspected materials were observed during the inspection and accordingly, samples were not collected.

1.0 INTRODUCTION

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International, Inc. (AES International) for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico.

The survey was conducted on 03/07/2024 by Abraham Rodríguez, a DRNA/AHERA Certified Asbestos Building Inspector (see Appendix I for credentials). The inspection was scheduled to be performed based on a modified ASTM E2356-18 protocol, that included a visual inspection and collection of samples.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 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 various 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 fatal; it is, however, incurable. One who has it cannot breathe easily and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be found in the lining of the lungs and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the ones who cause the problems.

Studies indicate different health effects resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The later, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

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 practices, or procedures for emission control. The rule states 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 February 20, 1991 which includes as 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 PROJECT IDENTIFICATION/DESCRIPTION

The Municipality of Rincón will revitalize the parking lot and an adjoining passive park for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico.

4.0 METHODS OF BUILDING INSPECTION

Each sample, if collected, should have been classified according to the condition of Asbestos Containing Materials (ACM) in that location and the potential for material disturbance. All the area was visually inspected.

5.0 SAMPLING METHODS

Samples were not collected as no suspected ACM were observed during the visual inspection.

6.0 INSPECTION RESULTS

Suspected materials were not observed during visual inspection.

7.0 CONCLUSIONS

A survey for ACM was conducted for the New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward, Rincón, Puerto Rico. No suspected ACM were observed.

The ACM survey results does not include materials which are non-accessible, non-visible and may be present inside the walls, or covered by other materials. These materials must be assessed at the time of the disturbance and assumed as positive for the time being.



Abraham Rodriguez
DRNA Asbestos Inspector
Lic#: ASB-1023-0156-SI

Appendix I



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate

Santurce, PR 00907

Mr. Ady Padan

Phone: 787-722-0220 Fax: 787-724-5788

Email: yotal@bellsouth.net

<http://www.aesipr.org>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

Code

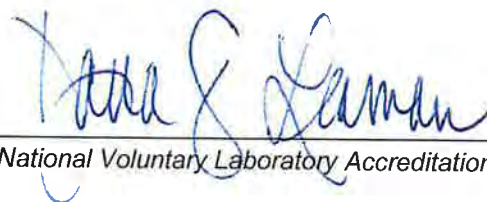
Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2024-01-01 through 2024-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

A handwritten signature in blue ink, reading 'Dana S. Laman'. The signature is written in a cursive style and is positioned above a horizontal line.

DRNA Asbestos Inspector Credentials

	<p>TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO</p> <p>Esta tarjeta autoriza a:</p> <p><i>Abraham Rodriguez Jr.</i></p> <hr/> <p>Inspector</p> <p>A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.</p> <p></p> <hr/> <p>Firma Autorizada - Departamento Recursos Naturales y Ambientales</p>
<p>ASB-1023-0156-SI</p> <hr/> <p>Número de Registro</p> <p>13-sept-2024</p> <hr/> <p>Fecha de vencimiento</p>	

Appendix II



ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Applied Engineering Group

Structure: Parking Lot

Project Name: ACM Survey for the New Parking of the Rincón Urban Center

Inspection Date: 3/7/2024

Page: 1 of 1

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7, X, None)	Hazard Ranking (5-7)
I.D. Number	Material Description								
	No Suspected ACM were Observed								

Inspected by: Abraham Rodríguez

Date: 3/7/2024

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

Appendix III



**Site Location: New Parking of the Rincón Urban Center, Parque Street, Pueblo Ward
Rincón, Puerto Rico**

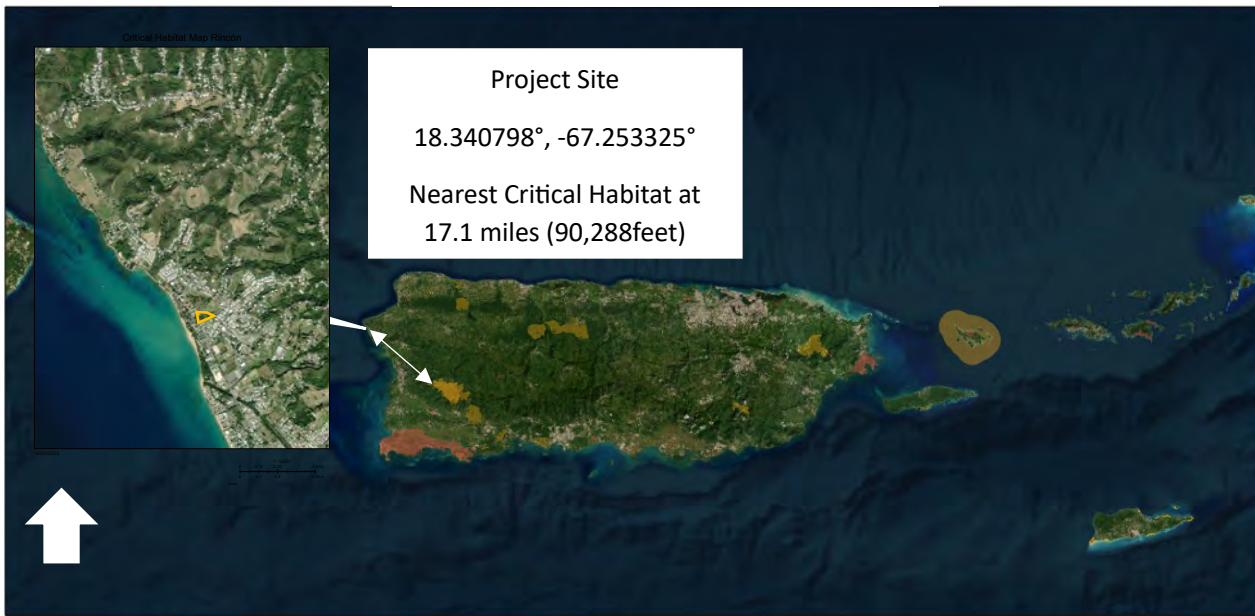


Selective Photos



General View
Parking Area

PR-CRP-000505 Critical Habitat Map



1/2/2024

1:1,118,835
0 10 20 40 mi
0 15 30 60 km

Attachment 8A: Critical Habitats

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°). Source: US National Park Service - Interactive Map of NPS Wild and Scenic Rivers.

Website:

<https://nps.maps.arcgis.com/apps/View/index.html?appid=ff42a57d0aae43c49a88daee0e353142>

Author: Applied Engineering Group

Attachment 8B: USFWS Consultation Package & Determination

From: [Caribbean ES, FW4](#)
To: [environmentcdbg](#)
Cc: [Aldo A. Rivera-Vazquez](#)
Subject: Re: [EXTERNAL] RE: PR-CRP-000505-Expansion Parking Lot Ojo De Agua
Date: Tuesday, June 17, 2025 6:38:28 AM
Attachments: [image001.png](#)
[image002.png](#)

Good Morning

The Service's acknowledge receipt of PRDOH's letter dated April 24, 2025, accepting the recommendation provided by the Service on January 02, 2025, to convert parking spaces 27 through 30 have into a buffer zone and green open space, providing an alternative to retain existing conditions for PEM1 and to implement best sediment and erosion management practices during construction phases and operation. No further consultation is required unless the project scope of work change or new information regarding listed species becomes available. Keep this email for your records.

Thanks

Caribbean Ecological Services Field Office
(786) 244-0081
caribbean_es@fws.gov

For project evaluations, please visit our [Consultation Guidelines website](#).

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Monday, June 16, 2025 2:32 PM
To: Mena, Lourdes <Lourdes_Mena@fws.gov>; Caribbean ES, FW4 <Caribbean_ES@fws.gov>
Cc: Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>
Subject: [EXTERNAL] RE: PR-CRP-000505-Expansion Parking Lot Ojo De Agua

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Greetings,

We would like to kindly follow-up on PRDOH's response to the Service's recommendations regarding the project **PR-CRP-000505** for the CDBG-DR City Revitalization Program

Sincerely,

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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From: environmentcdbg

Sent: Thursday, April 24, 2025 4:15 PM

To: Lourdes_Mena@fws.gov; Caribbean_es@fws.gov

Cc: Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>

Subject: RE: PR-CRP-000505-Expansion Parking Lot Ojo De Agua

To whom it may concern:

In response to the letter received on January 2, 2025, attached please find PRDOH's response to the Service's recommendations regarding the project **PR-CRP-000505** for the CDBG-DR City Revitalization Program.

[PR-CRP-000505_USFWS_Response_to_Agency_Recommendation_PRDOH.pdf](#)

We look forward for your response in order to move forward our environmental review process.

Sincerely,

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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From: Roman, Damaris <damaris_roman@fws.gov>

Sent: Tuesday, January 7, 2025 9:34 AM

To: jose.delarosa@aegroup-pr.com

Cc: njimenez@drna.pr.gov; Nazario Jiménez, Nancy (AAPP) <nnazariojimenez@cor3.pr.gov>;

environmentcdbg <environmentcdbg@vivienda.pr.gov>; Ortiz, Wilfrido G

<wilfrido.g.ortiz@hud.gov>

Subject: PR-CRP-000505-Expansion Parking Lot Ojo De Agua

Mr. De La Rosa

See attached file regarding the referenced project. Should you have any questions, contact us at caribbean_es@fws.gov

Thanks

**** If you need assistance, please contact me at emails or mobile below. If you are sending a request for technical assistance or Section 7 consultation, please contact us at Caribbean_es@fws.gov****

Need a project evaluation? Please visit our [Consultation Guidelines](#) website.

Cordially,

Damaris Román Ruiz

*Biological Science Technician
US Fish and Wildlife Service
Caribbean Ecological Service Field Office
P.O Box 491/Road 301 km 5.1
Boqueron PR 00622*

*Office Park I
Suite 303
State Road #2, Km 156.5
Mayagüez, PR 00680*

Office Desk Phone (939) 320-3135

Mobile (786) 244-0081

damaris_roman@fws.gov

caribbean_es@fws.gov

Office Homepage: <https://www.fws.gov/southeast/caribbean/>

Facebook: <https://www.facebook.com/USFWSCaribbean?ref=hl>

Flicker: <https://www.flickr.com/photos/usfwssoutheast/sets/72157626859158391/>

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DEPARTMENT OF

HOUSING

GOVERNMENT OF PUERTO RICO



April 24, 2025

Lourdes Mena
Field Supervisor
Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
Office Park I, Suite 303
State Road #2 Km 156.5
Mayagüez, Puerto Rico 00680
Email: Caribbean_es@fws.gov; Lourdes_Mena@fws.gov

**RE: PR-CRP-000505 – Estacionamiento Urbano
Response to USFWS Recommendation**

Dear Ms. Mena,

In response to the U.S. Fish and Wildlife letter dated January 2, 2025, regarding the 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 project **Estacionamiento Urbano (PR-CRP-000505)**, the Puerto Rico Department of Housing (PRDOH) is addressing your recommendation to the modify the proposed project footprint to maintain existing condition of the wetland.

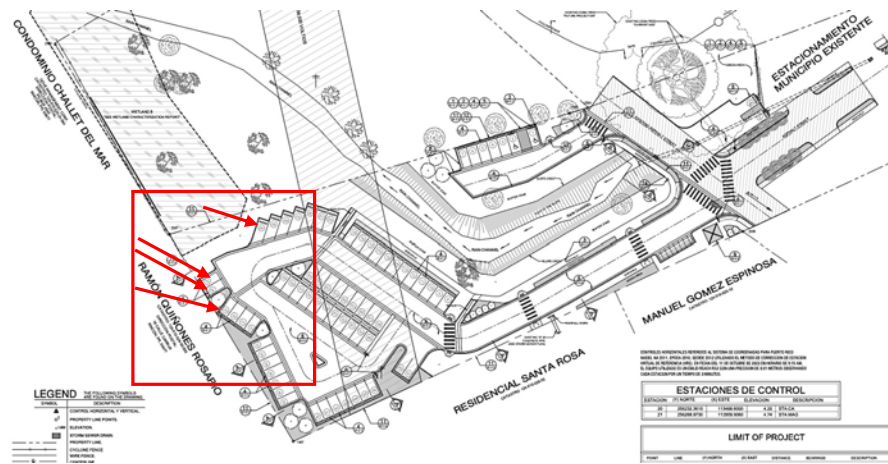
In accordance with the recommendation by the Service, parking spaces 27 through 30 have been reconfigured into a buffer zone and green open space, providing an alternative to retain existing conditions for PEMIF. In addition, best sediment and erosion management practices will be implemented during construction phases and operation of the proposed activity to prevent sediment discharges and deposition.

For your review, please refer to the attached revised drawings. Should you have any questions or require any further information, please do not hesitate to contact us at environmentcdbg@vivienda.pr.gov or 787.274.2527 ext. 4320.

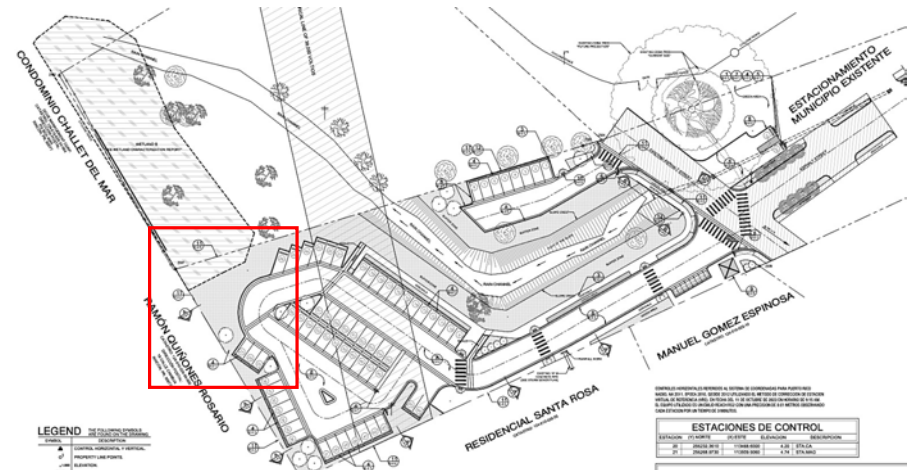
Cordially,

Aldo A. Rivera-Vázquez, PE
Permits and Environmental Compliance Director
Disaster Recovery Office, CDBG-DR/MIT Program

Propuesta anterior



Propuesta revisada (elimina cuatro estacionamientos)

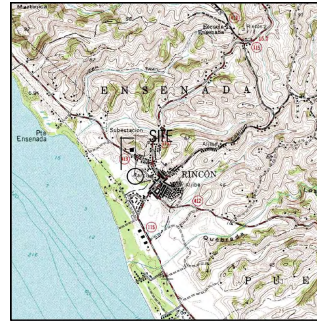


DESIGNER:



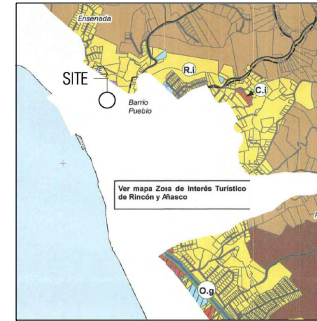
APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

10 St. Montecarlo Avenue #866 Río Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: 787 - 771-5071 / 787 - 771-5069 / Fax: 787 - 771 - 5070 AEG@aegroup-pr.com

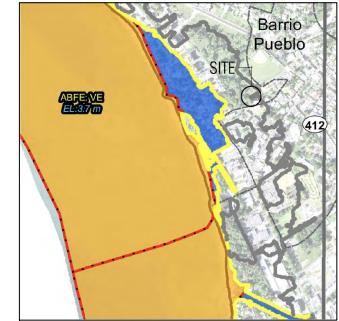


LOCATION SCALE: 1: 20,000

LAMBERT COORDINATES
X=113,402.1842
Y=256,239.9921
COORDINATES SYSTEM NAD-83



ZONING
SCALE: 1: 2,000



FEDERAL INSURANCE RATE MAP (F.I.R.M.)
SCALE: 1: 2,000

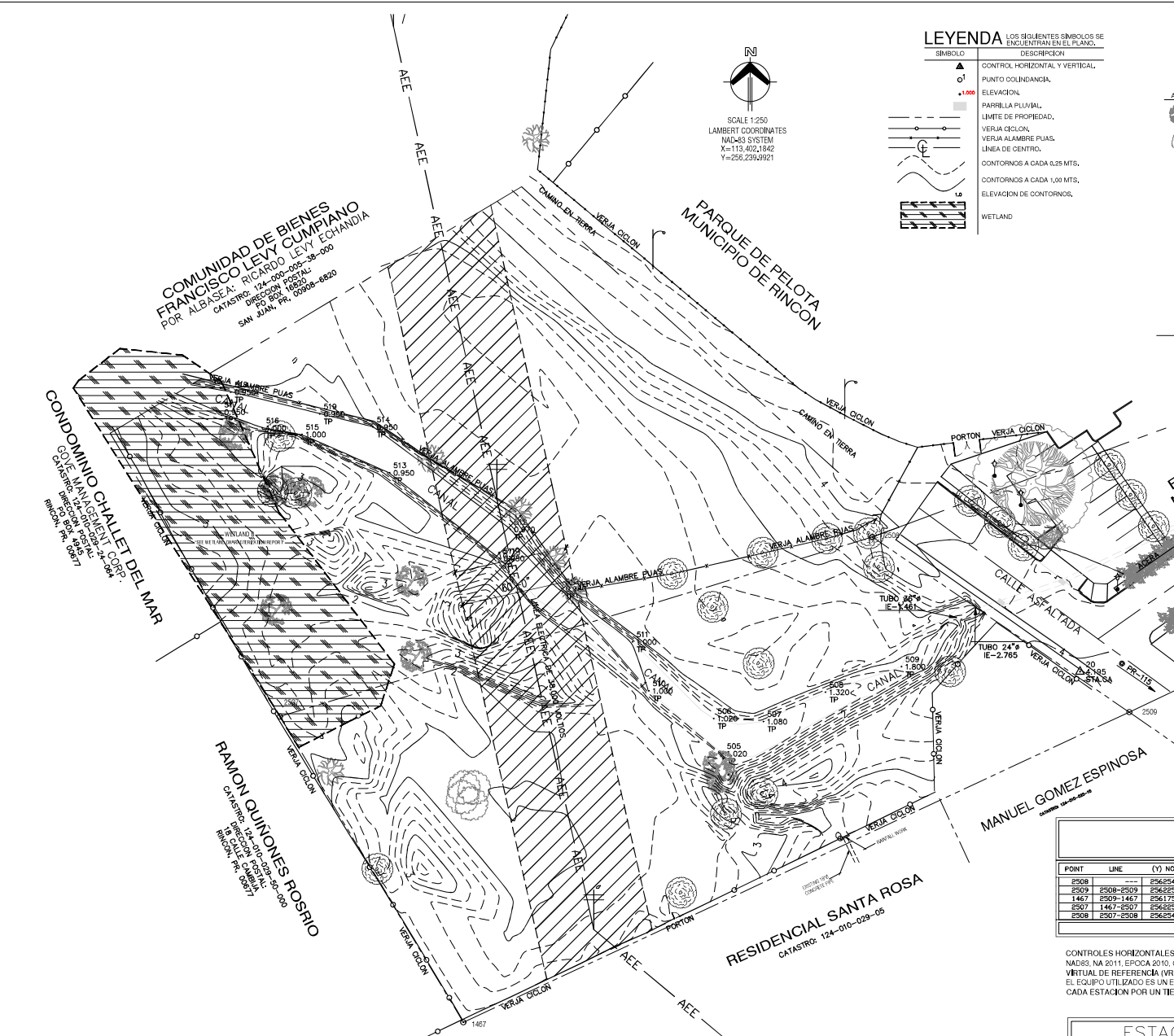
CONSTRUCTION DRAWINGS FOR ESTACIONAMIENTO CENTRO URBANO RINCÓN

LOCATED AT ENSENADA WARD STATE ROAD P.R. 413 KM. 0.7 FROM MUNICIPALITY OF
RINCÓN, PUERTO RICO. PR-CRP-000505

DRAWING INDEX

CONSTRUCTION PLANS INDEX OF SHEETS

DWG. NO.	TITLE OF SHEET	SHEET NO.
TH-1.0	TITLE SHEET & LOCATION MAPS	1
ASB-1.0	AS 'BUILT' SITE PLAN	2
DM-1.0	DEMOLITION SITE PLAN	3
SP-1.0	PROPOSED SITE PLAN	4
SP-1.1	PROPOSED GEOMETRY SITE PLAN	5
SP-2.0	TYPICAL SITE DETAILS	6
SP-2.1	TYPICAL SITE DETAILS	7
SP-2.2	TYPICAL SITE DETAILS	8
SP-2.3	TYPICAL SITE DETAILS	9
SP-2.4	TYPICAL SITE DETAILS	10
SP-3.0	PROPOSED GRADING SITE PLAN	11
SP-4.0	LONGITUDINAL & TRANSVERSAL PROFILES	12
SD-1.0	PROPOSED STORM SEWER SITE PLAN	13
SD-2.0	STORM SEWER PROFILES	14
SD-3.0	STORM SEWER TYPICAL DETAILS	15
E-1.0	PROPOSED LIGHTING SITE PLAN	16



AS "BUILT" SITE PLAN
SCALE 1:250

SCALE 1:250
LAMBERT COORDINATES
NAD-83 SYSTEM
X=113,402,182
Y=256,239,921

LEYENDA LOS SIGUIENTES SIMBOLOS SE ENCONTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
	CONTROL HORIZONTAL Y VERTICAL.
	PUNTO COLUMBIANICA, ELEVACION.
	PARRILLA PLUVIAL.
	LMITE DE PROPIEDAD.
	VERIA CIOLON.
	VERIA ALAMBRE PUAS.
	LINEA DE CENTRO.
	CONTORNOS A CADA 0.25 MTS.
	CONTORNOS A CADA 1.00 MTS.
	ELEVACION DE CONTORNOS.
	WETLAND

LEYENDA
ALGUNOS DE LOS SIMBOLOS

	ALMENDRO
	BAMBU

LEYENDA
ELECTRICA

	ELECTRICA
	ESTACION
	CONTROL
	LMITE
	LINEA DE CENTRO
	WETLAND

LIMIT OF

POINT	LINE	(Y) NORTH	(X) EAST
2508	---	256254.0539	113435.194
2509	2508-2509	256225.8366	113476.326
1467	2509-1467	256175.9163	113369.369
2507	1467-2507	256225.1456	113339.871
2508	2507-2508	256254.0539	113435.194

AREA = 5,315,9542 m²

CONTROLES HORIZONTALES REFERIDOS AL SISTEMA NAD83, NA 2011, EPOCA 2010, GEOIDE 2012 UTILIZANDO VIRTUAL DE REFERENCIA (VRS), EN FECHA DEL 11 DE ABRIL DEL 2012. EL EQUIPO UTILIZADO ES UN EMILIO REACH R52 CON UNA CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES D

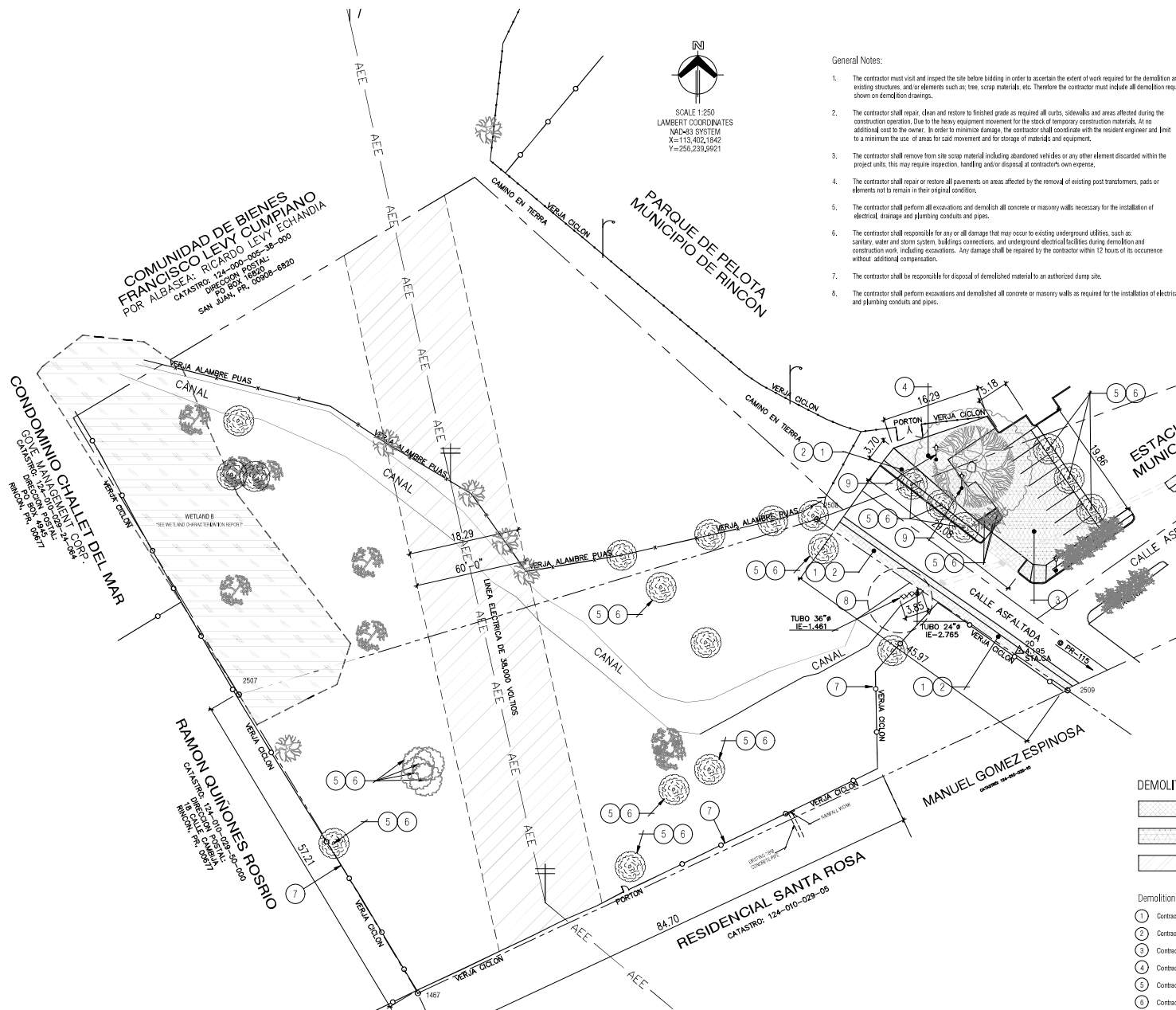
ESTACION	(Y) NORTE	(X) ESTE
20	256232.3610	113468.6000
21	256268.9730	113509.9060



SCALE 1:250
LAMBERT COORDINATES
NAD83 SYSTEM
X=113,402,1842
Y=256,239,6921

General Notes:

1. The contractor must visit and inspect the site before bidding in order to ascertain the extent of work required for the demolition and existing structures, and/or elements such as, tree, scrap materials, etc. Therefore the contractor must include all demolition requirements shown on demolition drawings.
2. The contractor shall repair, clean and restore to finished grade as required all curbs, sidewalks and areas affected during the construction operation. Due to the heavy equipment movement for the stock of temporary construction materials, at no additional cost to the owner, in order to minimize damage, the contractor shall coordinate with the resident engineer and limit to a minimum the use of areas for said movement and for storage of materials and equipment.
3. The contractor shall remove from site scrap material including abandoned vehicles or any other element discarded within the project units; this may require inspection, handling and/or disposal at contractor's own expense.
4. The contractor shall repair or restore all pavements on areas affected by the removal of existing post transformers, pads or elements not to remain in their original condition.
5. The contractor shall perform all excavations and demolish all concrete or masonry walls necessary for the installation of electrical, drainage and plumbing conduits and pipes.
6. The contractor shall be responsible for any or all damage that may occur to existing underground utilities, such as: sanitary, water and storm system, buildings connections, and underground electrical facilities during demolition and construction work, including excavations. Any damage shall be repaired by the contractor within 12 hours of its occurrence without additional compensation.
7. The contractor shall be responsible for disposal of demolished material to an authorized dump site.
8. The contractor shall perform excavations and demolish all concrete or masonry walls as required for the installation of electrical, and plumbing conduits and pipes.



DEMOLITION SITE PLAN
SCALE 1:250

DEMOLITION



Demolition N

- 1 Contractor
- 2 Contractor
- 3 Contractor
- 4 Contractor
- 5 Contractor
- 6 Contractor
- 7 Contractor
- 8 Contractor
- 9 Contractor

COMUNIDAD DE BIENES FRANCISCO LEVY CUMPIANO
 POR ALABAR RICARDO ERY ESKANDIA
 DAVIENRO: 15889-00000
 QUITO: 15889-00000
 SIN AÑOS PRE-TERMINOS

PARQUE DE PELOTA MUNICIPIO DE RINCÓN

CONDOMINIO CHALET DEL MAR
 DISEÑO: MANUEL GOMEZ
 OFICINA: MANUEL GOMEZ INGENIEROS
 INGENIERIA CIVIL Y AMBIENTAL
 INGENIERIA EN 2017

RAMÓN QUIJONES ROSARIO
 DISEÑO: MANUEL GOMEZ
 OFICINA: MANUEL GOMEZ INGENIEROS
 INGENIERIA CIVIL Y AMBIENTAL
 INGENIERIA EN 2017

RESIDENCIAL SANTA ROSA
 CATASTRO: 124-010-029-05

MANUEL GOMEZ
 CATASTRO: 124-010-029-10

LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
▲	CONTROL HORIZONTAL Y VERTICAL.
○	PROPERTY LINE POINTS.
1,000	ELEVATION.
—	STORM SEWER DRAIN.
—	PROPERTY LINE.
—	CYCLONE FENCE.
—	WIRE FENCE.
—	CENTERLINE.
—	CONTOUR LINE EVERY 0.25 MTS.
—	CONTOUR LINE EVERY 1.00 MTS.
—	CONTOUR ELEVATION.

CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS, NA 2011, EPOCA 2010, GEODE 2012 UTILIZANDO EL VIRTUAL DE REFERENCIA (VRS), EN FECHA DEL 11 DE OCTUBRE DEL 2017. EL EQUIPO UTILIZADO ES UN EMULADOR ROBOT CON UNA FRECUENCIA DE MUESTREO DE 3 MINUTOS.

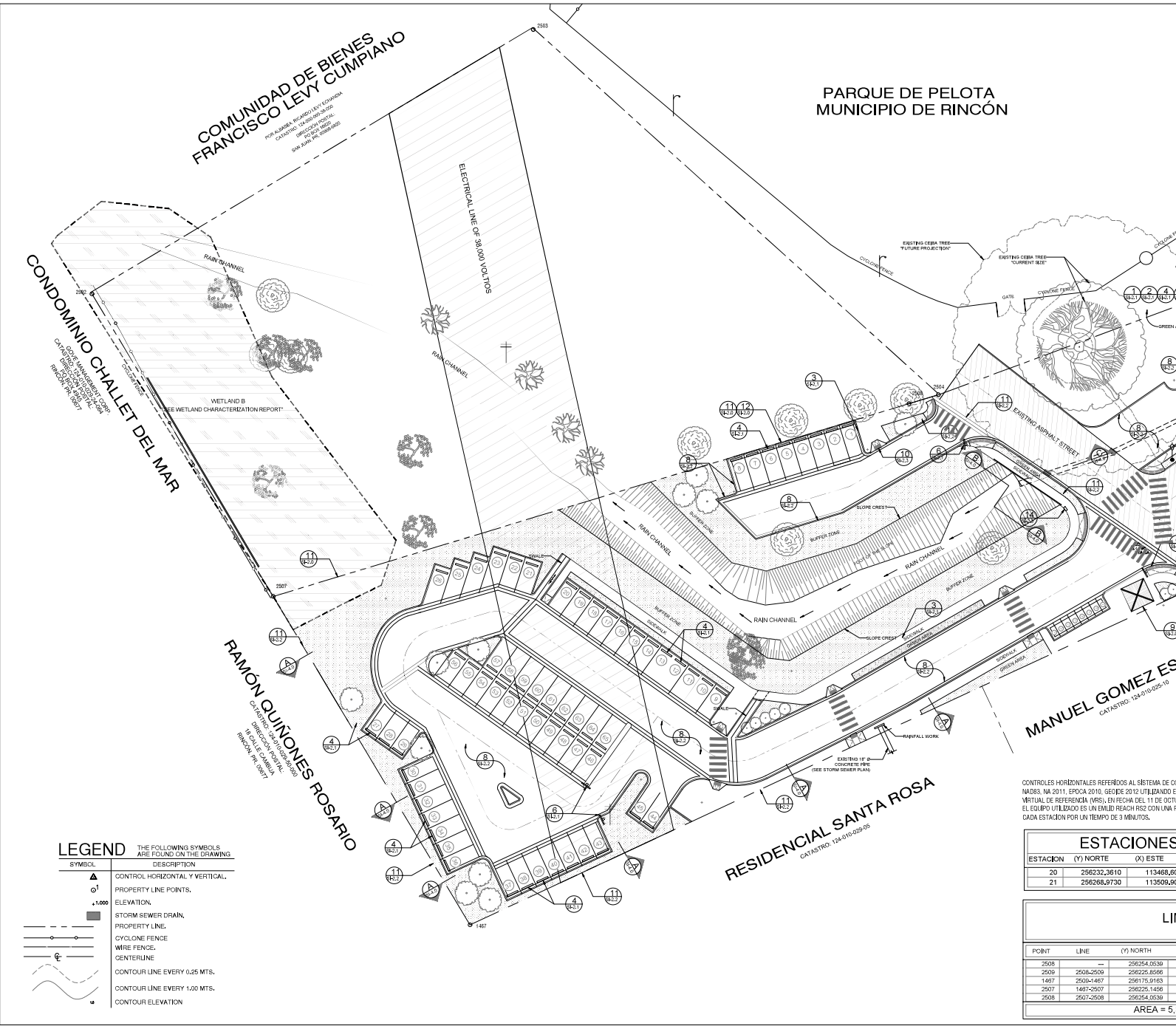
ESTACIONES

ESTACION	(Y) NORTE	(X) ESTE
20	256232,3610	113468,6030
21	256268,9730	113509,9030

LINEAS

POINT	LINE	(Y) NORTH
2508	—	256254,2638
2509	2508-2509	256252,6596
1467	2508-1467	256175,9163
2507	1467-2507	256225,1458
2508	2507-2508	256254,2638

AREA = 5,000



**COMUNIDAD DE BIENES
FRANCISCO LEVY CUMPIANO**
 P.O. BOX 1000, RINCÓN, P.R. 00986
 TEL: (787) 838-1000
 FAX: (787) 838-1000

**PARQUE DE PELOTA
MUNICIPIO DE RINCÓN**

CONDOMINIO CHALET DEL MAR
 1000 CHALET DEL MAR, RINCÓN, P.R. 00986
 TEL: (787) 838-1000
 FAX: (787) 838-1000

RAMÓN QUIJONES ROSARIO
 C/ CAROLINA DE ROSARIO 2040
 DISTRITO DE CAROLINA
 RINCÓN, P.R. 00977

RESIDENCIAL SANTA ROSA
 C/ CAROLINA DE ROSARIO 2040
 DISTRITO DE CAROLINA
 RINCÓN, P.R. 00977

MANUEL GOMEZ ES
 C/ CAROLINA DE ROSARIO 2040
 DISTRITO DE CAROLINA
 RINCÓN, P.R. 00977

ELECTRICAL LINE OF 30,000 VOLTS

RAIN CHANNEL

WETLAND B
 SEE WETLAND CHARACTERIZATION REPORT

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

RAIN CHANNEL

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RAIN CHANNEL

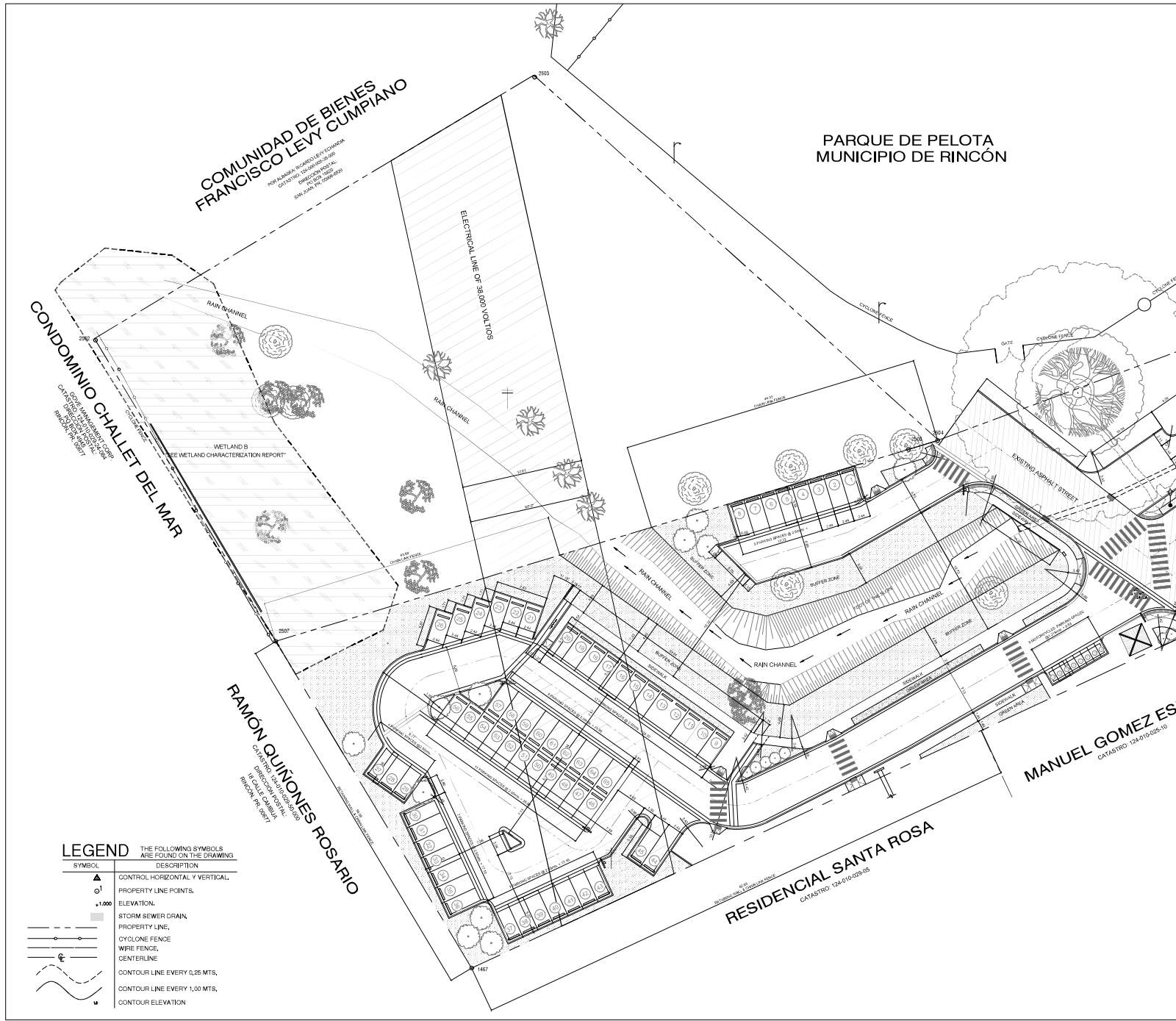
RAIN CHANNEL

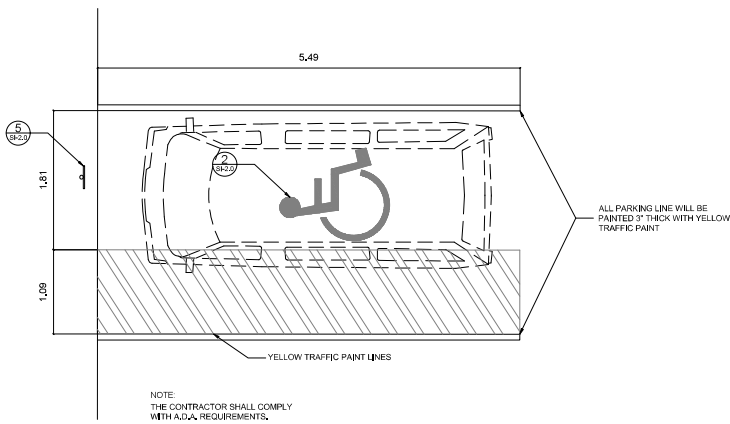
RAIN CHANNEL

RAIN CHANNEL

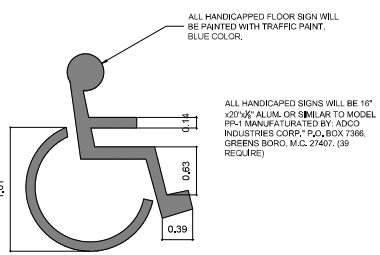
LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
▲	CONTROL HORIZONTAL Y VERTICAL
○	PROPERTY LINE POINTS
1.000	ELEVATION
—	STORM SEWER DRAIN
—	PROPERTY LINE
—	CYCLONE FENCE
—	WIRE FENCE
—	CENTERLINE
—	CONTOUR LINE EVERY 0,25 MTS.
—	CONTOUR LINE EVERY 1,00 MTS.
—	CONTOUR ELEVATION

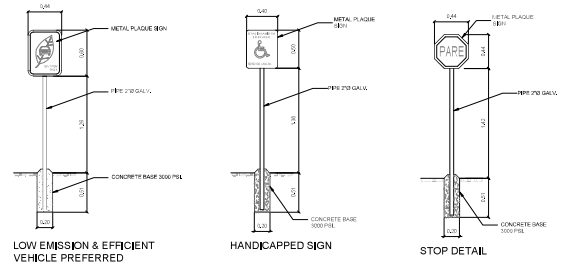




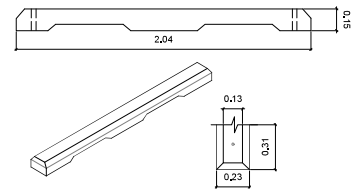
1 HANDICAPPED PARKING DETAIL
SCALE: 1:30



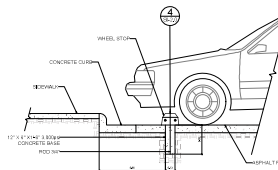
2 HANDICAPPED FLOOR SIGN DETAIL
SCALE: 1:30



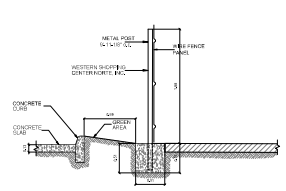
10 **5** **6** PARKING SIGN DETAILS
SCALE: 1:30



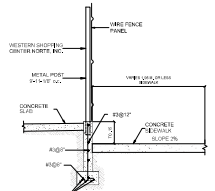
4 PRECAST WHEEL STOP DETAIL
SCALE: 1:16



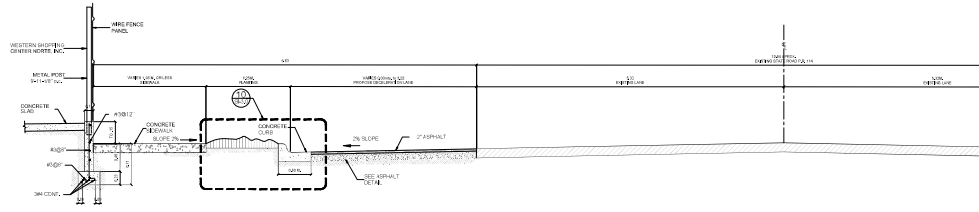
11 WHEEL STOP SECTION DETAIL
SCALE: 1:30



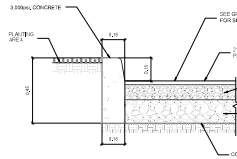
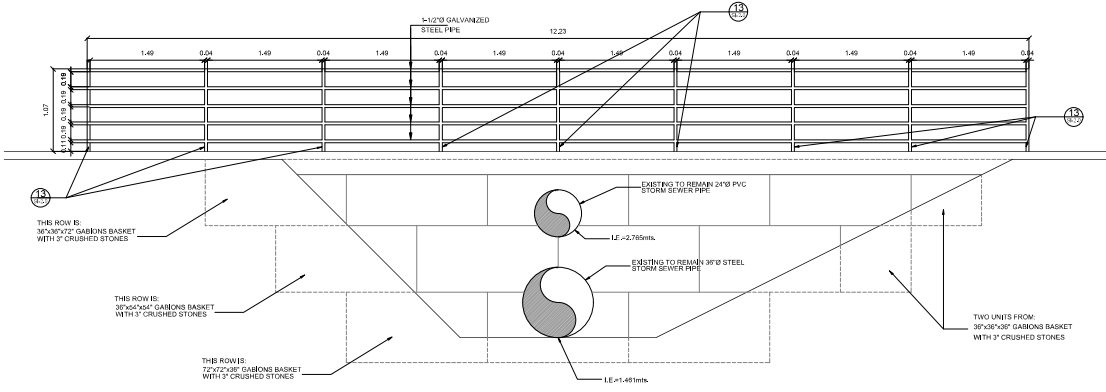
SECTION FORM "24" POINT OF COLINDANCE TO END LOW WALL (SEE SH-1.0)
3 STREET SECTION DETAIL
SCALE: 1:30



SECTION FORM "21" POINT OF COLINDANCE TO END LOW WALL (SEE SH-1.0)

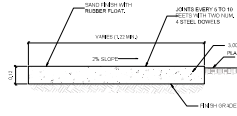


3 STREET SECTION DETAIL
SCALE: 1:30

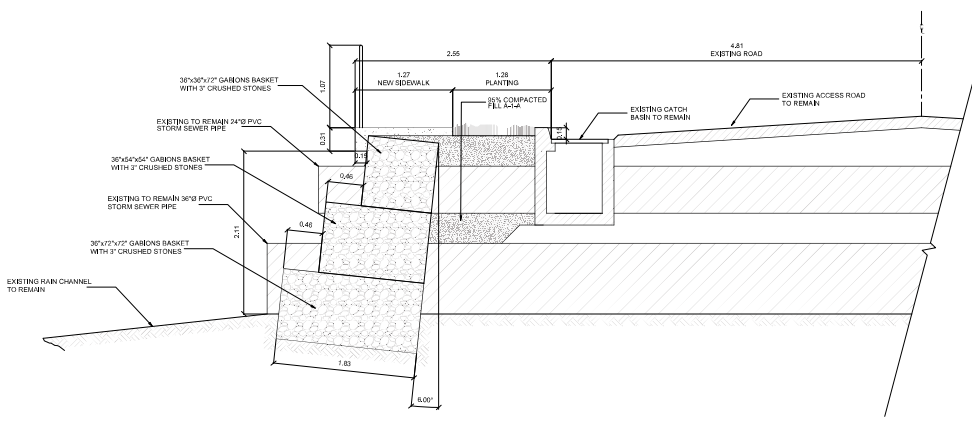


CURB DETAIL
SCALE: 1:16

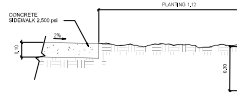
RAIN CHANNEL SECTION
SCALE: 1:30



SIDEWALK DETAIL
SCALE: 1:16



RAIN CHANNEL SECTION
SCALE: 1:30



SIDEWALK, PLANTING, CURB
SCALE: 1:30

MEASURES			WHERE OCCURS
A	B	C	
APPROX 12"	APPROX 12"	APPROX 12"	APPROX 12"
2"	4"	6"	APPROX 12"

COMUNIDAD DE BIENES FRANCISCO LEVY CUMPIANO
 POR ALVARO ROSARIO LEVY EDWARDS
 CATASTRO: 124-010-025-000
 INSCRIPCIÓN: 124-010-025-000
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 SAN JUAN, P.R. 00926-0000

PARQUE DE PELOTA MUNICIPIO DE RINCÓN

CONDOMINIO CHALET DEL MAR
 CATASTRO: 124-010-025-000
 INSCRIPCIÓN: 124-010-025-000
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 SAN JUAN, P.R. 00926-0000

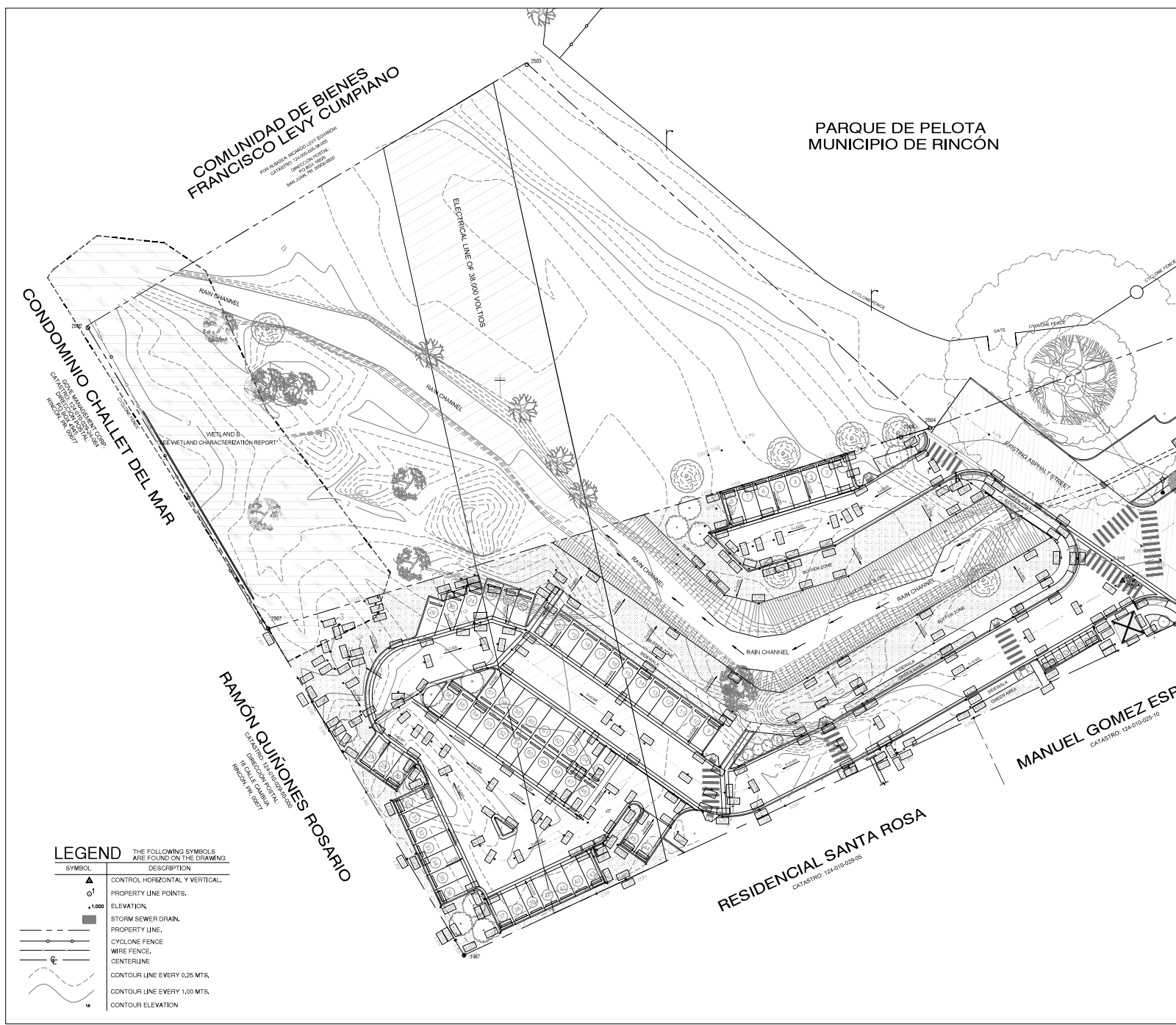
RAMÓN QUIJONES ROSARIO
 CATASTRO: 124-010-025-000
 INSCRIPCIÓN: 124-010-025-000
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 EN FAVOR DE FRANCISCO LEVY CUMPIANO
 SAN JUAN, P.R. 00926-0000

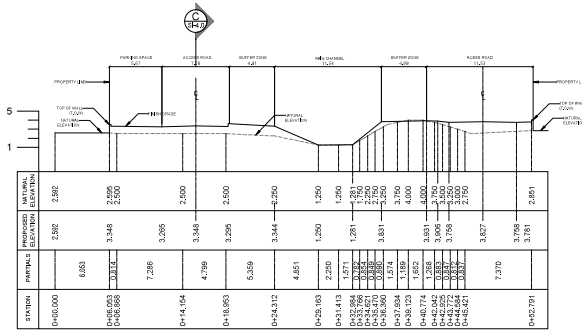
RESIDENCIAL SANTA ROSA
 CATASTRO: 124-010-025-000

MANUEL GOMEZ ESPINOZA
 CATASTRO: 124-010-025-000

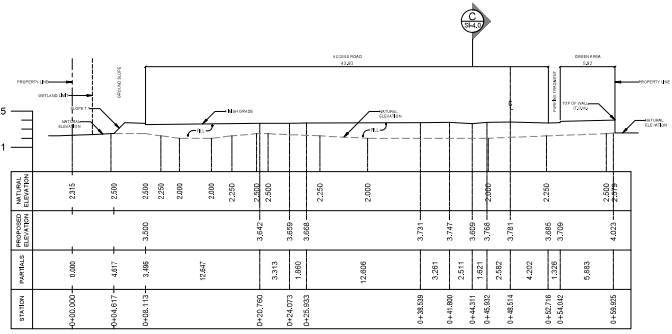
LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
▲	CONTROL HORIZONTAL Y VERTICAL.
○	PROPERTY LINE POINTS.
1,000	ELEVATION.
—	STORM SEWER DRAIN.
—	PROPERTY LINE.
—	CYCLONE FENCE.
—	WIRE FENCE.
—	CENTERLINE.
—	CONTOUR LINE EVERY 0,25 MTS.
—	CONTOUR LINE EVERY 1,00 MTS.
—	CONTOUR ELEVATION.

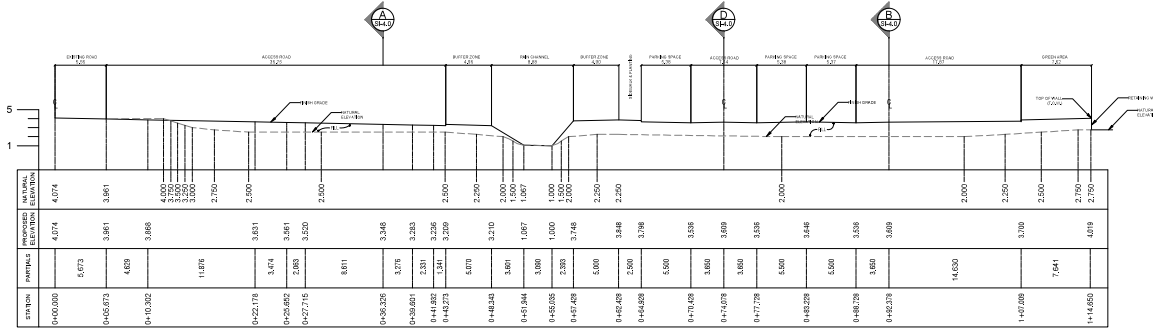




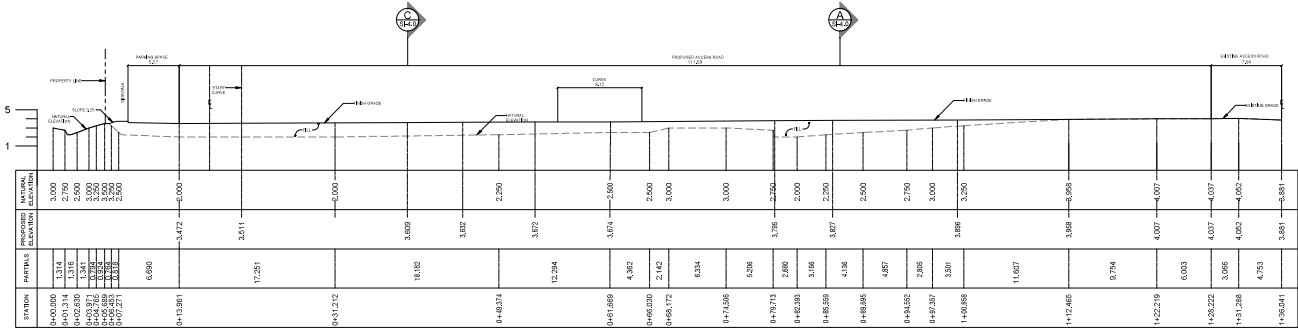
LONGITUDINAL PROFILE
SCALE: 1:250



LONGITUDINAL PROFILE
SCALE: 1:250



LONGITUDINAL PROFILE
SCALE: 1:250



LONGITUDINAL PROFILE
SCALE: 1:250

COMUNIDAD DE BIENES FRANCISCO LEVY CUMPIANO
 PUNTA BLANCA, BARRIO LEVY CUMPIANO
 CANTÓN SAN FRANCISCO DE QUITO
 PROVINCIA DEL CAJAMARCA
 TEL: 06 253 2200
 FAX: 06 253 2200
 WWW.AIAN.COM.EC

PARQUE DE PELOTA MUNICIPIO DE RINCÓN

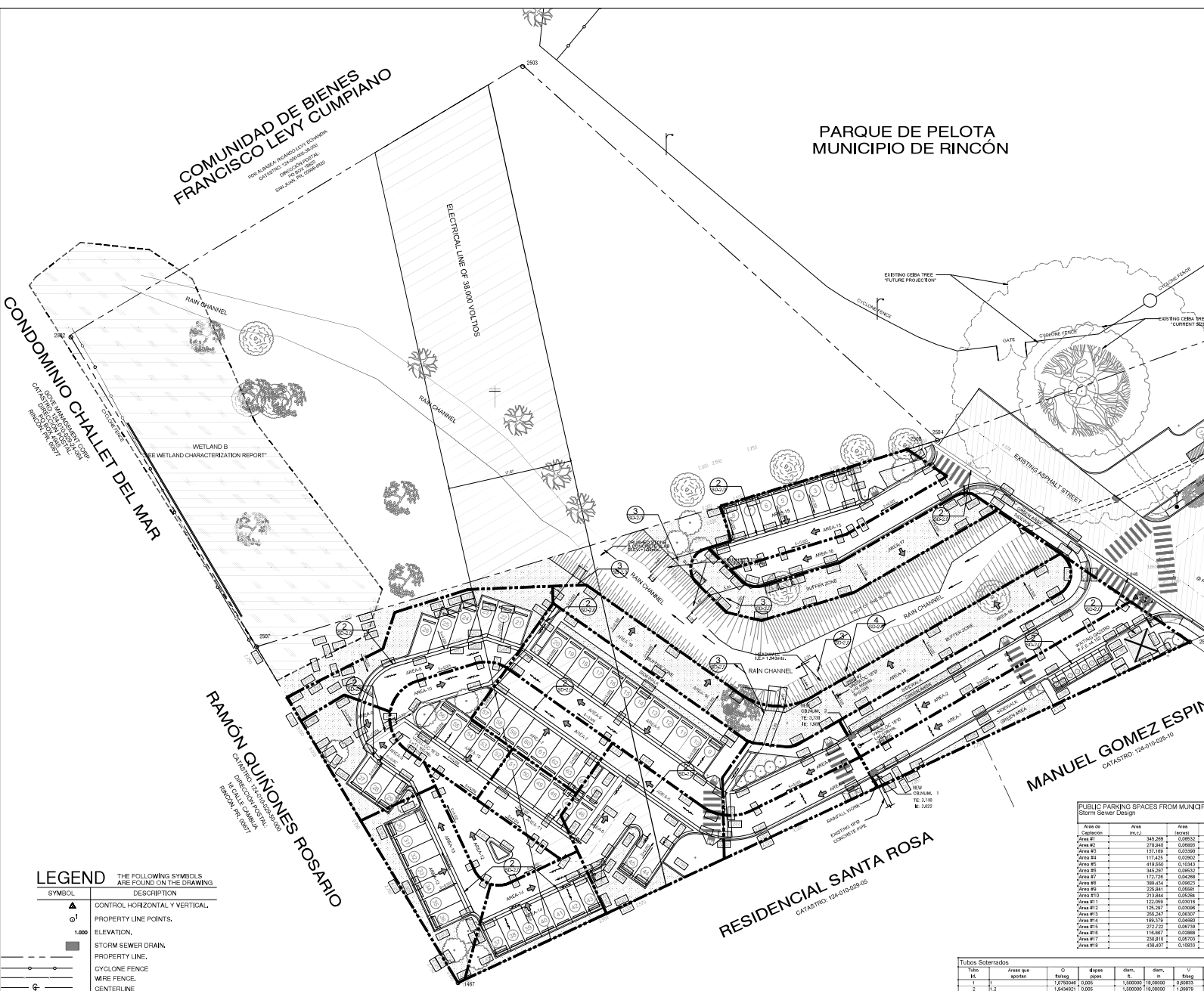
CONDOMINIO CHALLET DEL MAR
 CANTÓN SAN FRANCISCO DE QUITO
 PROVINCIA DEL CAJAMARCA
 TEL: 06 253 2200
 FAX: 06 253 2200
 WWW.AIAN.COM.EC

RAMÓN QUÍÑONES ROSARIO
 CANTÓN SAN FRANCISCO DE QUITO
 PROVINCIA DEL CAJAMARCA
 TEL: 06 253 2200
 FAX: 06 253 2200
 WWW.AIAN.COM.EC

RESIDENCIAL SANTA ROSA
 CATASTRO: 124-010-029-03

MANUEL GÓMEZ ESPINOSA
 CATASTRO: 124-010-022-10

- LEGEND** THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING
- | SYMBOL | DESCRIPTION |
|--------|-------------------------------|
| ▲ | CONTROL HORIZONTAL Y VERTICAL |
| ○ | PROPERTY LINE POINTS |
| — | ELEVATION |
| — | STORM SEWER DRAIN |
| — | PROPERTY LINE |
| — | CYCLONE FENCE |
| — | WIRE FENCE |
| — | CENTERLINE |
| — | CONTOUR LINE EVERY 0,25 MTS. |
| — | CONTOUR LINE EVERY 1,00 MTS. |
| — | CONTOUR ELEVATION |

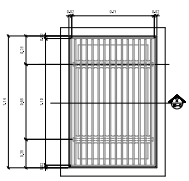


PUBLIC PARKING SPACES FROM MUNICIPALITY
 Storm Sewer Design

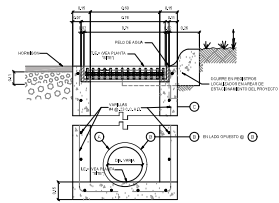
Area de	Area	Area
Compartes	m ²	m ²
Area #1	345.269	0,28852
Area #2	278.840	0,23289
Area #3	137.189	0,23340
Area #4	117.642	0,20082
Area #5	416.650	0,12443
Area #6	345.297	0,28950
Area #7	172.778	0,24478
Area #8	389.414	0,26073
Area #9	228.881	0,26611
Area #10	213.844	0,26324
Area #11	122.269	0,26019
Area #12	125.297	0,23036
Area #13	256.247	0,26019
Area #14	393.379	0,24480
Area #15	272.122	0,26779
Area #16	116.867	0,22988
Area #17	226.810	0,26719
Area #18	438.407	0,19833

Tubos Soterrados

Tubo	Area que	Q	diámetro	diámetro	V	
#	aportan	litros	mm	mm	litros	
1	1	1,2770248	0,205	1,500000	18,00000	0,26373
2	2	1,2643461	0,205	1,500000	18,00000	1,19879
3	3	1,2829716	0,205	1,500000	12,00000	1,19811
4	4	3,7178154	0,205	2,000000	24,00000	1,19882
5	5	1,2407089	0,205	2,500000	30,00000	0,26073
6	6	4,3769883	0,205	2,000000	24,00000	1,19882
7	7	0,9631081	0,205	2,500000	24,00000	0,30059
8	8	0,9691667	0,205	1,500000	18,00000	0,26073
9	9	1,2891156	0,205	1,500000	18,00000	0,26073
10	10	1,2891156	0,205	1,500000	18,00000	0,26073
11	11	0,3081974	0,205	1,500000	18,00000	0,17478

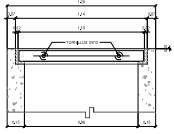


PLANTA DE POCETO PLUVIAL
CON DETALLE DE PARRILLA

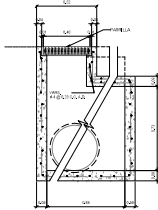


SECCIÓN ESTRUCTURAL

NOTAS:
1. EL LADO DONDE SE ENCUENTRE EL ENCINTADO SIEMPRE SERÁ LADO C

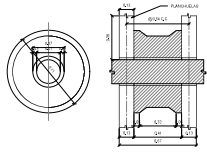


VISTA LATERAL
PARTE SUPERIOR DE POCETO



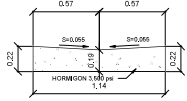
SECCIÓN ESTRUCTURAL
DE POCETOS

CONCRETO LEONARDO B. S. S. S.
C. ELECTROCAL, T. 555.44.51.51

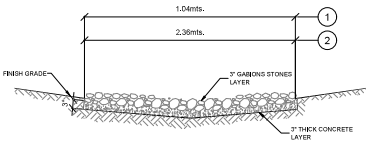


DETALLE DE RODILLOS

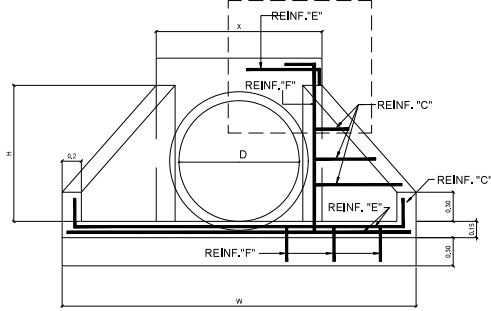
CATCH BASIN TYPICAL DETAIL
SCALE: 1:20



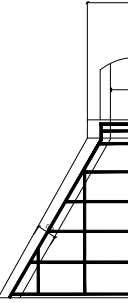
CONCRETE SWALE
SCALE: 1:20



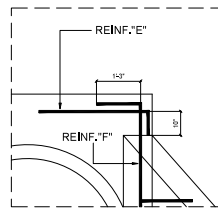
CONCRETE & CRUSHED STONE SWALE DETAIL
SCALE: 1:20



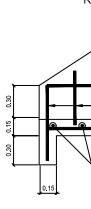
ELEVATION



PLAN



DETAIL

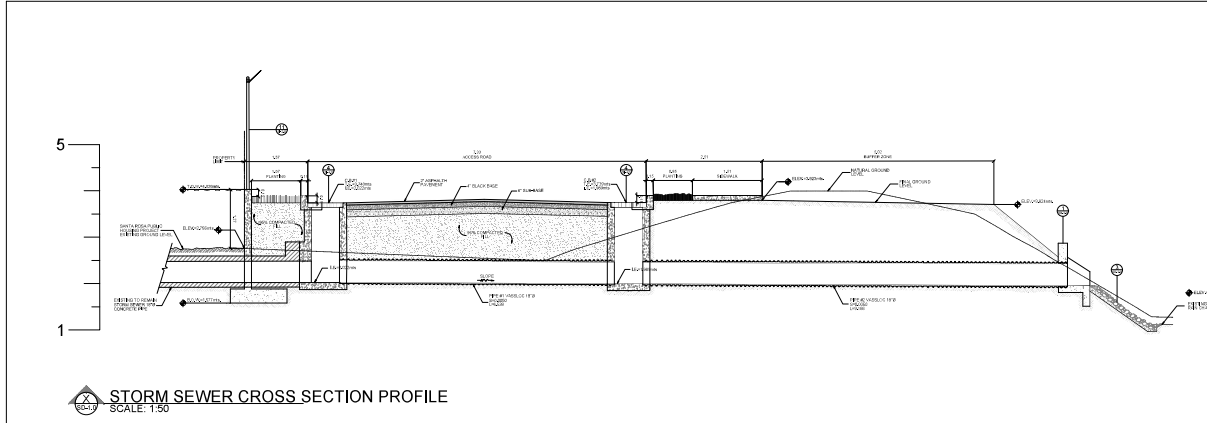


SECTION

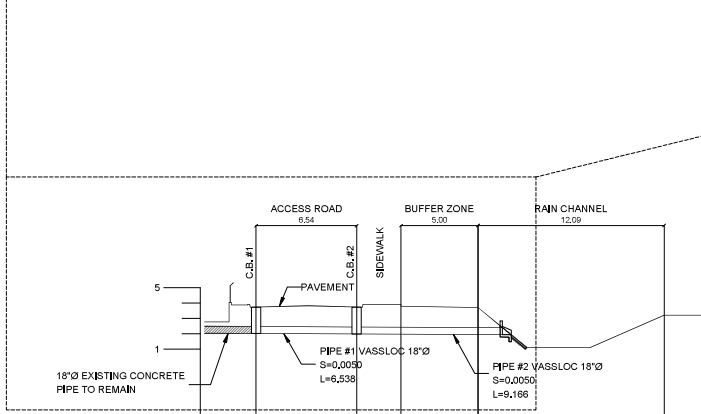
HEADWALL DETAILS
SCALE: 1:20

"D"	W
18"	1.49
24"	1.91
30"	2.31
36"	2.73
42"	3.15
48"	3.57
54"	4.03
60"	4.48
72"	5.23

VAR.	A	B
DIA.	5/8"	3/8"
DIST.	0.30	0.45



STORM SEWER CROSS SECTION PROFILE
SCALE: 1:50



STATION	PARTIALS	TOP ELEVATION	INVERT ELEVATION
0+00.000	0.000	3.740	2.022
0+06.538	6.538	3.739	1.989
0+09.419	2.881	3.851	
0+14.419	5.000	3.824	
0+14.419	5.000	3.824	

STORM SEWER PROFILE (PROFILE)
SCALE: 1:150



United States Department of the Interior

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



In Reply Refer To:
FWS/R4/CESFO/72117-033

Submitted Via Electronic Mail: jose.delarosa@aegroup-pr.com

Jose De La Rosa, BSCE
Project Coordinator
Applied Engineering Group
Calle 10 Ave Montecarlo #866
San Juan, PR 00924

Re: PR-CRP-000505-Expansion Parking Lot
“Ojo de Agua”, Rincón, Puerto Rico

Dear Mr. De La Rosa

Thank you for your letter received on October 24, 2024, requesting consultation on the above referenced project. As per your request, our comments are provided as under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The Puerto Rico Department of Housing (PRDOH) is proposing the construction of a public parking lot (funded by Housing and Urban Development (HUD)) to be located on Progreso Street Interior, Urban Area (18°20'22.2"N 67°15'11.2"W) in the municipality of Rincón, Puerto Rico. The proposed scope of work (SOW) for this project consists of:

- Preparation of the ground to carry out a correct installation of asphalt pavement and concrete in all required areas.
- Installation of bumper protectors/wheel stops.
- Construction of approximately 70 parking units:
 - ADA Compliance units
 - Motorcycle units
- From pavers and/or porous concrete at access entrances (ADA compliance).
- Green Initiatives:
 - Landscaping works.
 - Installation of solar lighting poles.
 - Inside the existing parking lot, there is a tree (Ceiba) which will be protected and delimited.
- Installation of signs accordingly.
- Construction of a drainage system.
- Construction of an entrance.
- Construction of some rest area (Construction of a "canopy" with fixed furniture).

- Construction of an area to observe the "Ojo de agua" (the observation area will be substantially distant from the "ojo de agua").

Using the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system, the PRDE has determined that the proposed project lies within the range of Puerto Rican boa (*Chilabothrus inornatus*) and West Indian manatee (*Trichechus manatus*).

The Caribbean Determination Key (DKey) in the IPaC application was used to evaluate the potential impacts of the proposed project on federally listed species (Project code: 2024-0074858). Based on the answers provided, a concurrence letter was obtained for the Puerto Rican boa, which determined that the proposed actions for this project may affect but is not likely to adversely affect (NLAA) this species. The Service acknowledges receipt of the NLAA DKey concurrence letter for the Puerto Rican boa.

Based on the nature of the project, scope of work, information available, and analysis of the area where the project will be developed, the PRDOH has determined that the proposed project would have no effect (NE) on the West Indian manatee since all work will be conducted inland.

The Service acknowledges receipt of PRDOH's NE determination for the West Indian manatee. Currently, we do not have information to refute that determination. Because the PRDOH made a NE determination, the PRDOH is not required to conduct formal or informal section 7 consultation with the Service, and the Service is not required to concur with PRDE's NE determination.

With regards to the Fish and Wildlife Coordination Act, we recommend that to avoid impacts to Wetland 2 (as identified in the project documents) as shown in the wetland assessment, that the proposed project footprint should be changed to maintain existing condition of the wetland. Parking spaces 27 through 30 should be converted to a buffer zone, green open space or other feasible alternative that retains existing conditions for PEM1F. Also, sediment and erosion controls must be implemented for the prevention of sediment discharges and deposition during construction phases and operation.

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.

Thank you for the opportunity to comment on this project. If you have any questions or require additional information, please contact us via email at caribbean_es@fws.gov or by phone at (786) 244-0081.

Sincerely,

**LOURDES
MENA**

Lourdes Mena
Field Supervisor

Digitally signed by LOURDES
MENA
Date: 2025.01.02 17:25:22
-04'00'

drr
cc:
DNER, San Juan
COR3, San Juan
HUD
PRDOH, San Juan

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

Dear Ms. Mena

HUD is requesting 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 PR-CRP-000505-Estacionamiento Urbano, located on Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°).

The proposed project consists of the construction of a public parking lot that includes ground preparation for asphalt and concrete installation, installation of bumper protectors, and the creation of approximately 70 parking units, including ADA-compliant and motorcycle spaces. It will feature pavers or porous concrete at access points, landscaping, solar lighting poles, and protection of an existing Ceiba tree. Additional components include signage installation, a drainage system with gutters to ensure proper flow of stormwater, a new entrance, a rest area with a canopy and fixed furniture, and an observation area for the "Ojo de agua," which will be located at a considerable distance from the water source.

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:

Name of the species	Threatened/Endangered/Candidate
Puerto Rican boa (<i>Epicrates inornatus</i>)	Endangered
West Indian Manatee (<i>Trichechus manatus</i>)	Threatened

Critical Habitat
No critical habitat in project site

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 wetland delimitation report, we have made the following effects determinations:

Choose an effect determination for each of the listed-species and critical habitats mentioned in the tables above

Name of the species	Effect Determination	Conservation Measures that will be implemented
Puerto Rican boa (<i>Epicrates inornatus</i>)	May Affect but not likely to affect	(NLAA) USFWS Puerto Rican boa Conservation Measures 2020
West Indian Manatee (<i>Trichechus manatus</i>)	No Effect	All work will be inland.

Critical Habitat		
None present in project location	No effect (NE)	N/A

In order to complete the 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 *José De La Rosa Reyes* at jose.delarosa@aegroup-pr.com and 787-615-9371/787-771-5071.



José De La Rosa Reyes
Project Coordinator



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:

04/09/2024 20:59:36 UTC

Project Code: 2024-0074858

Project Name: Estacionamiento Urbano PR-CR-000505

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/sites/default/files/documents/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:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.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
- Bald & Golden Eagles
- 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

(939) 320-3135

PROJECT SUMMARY

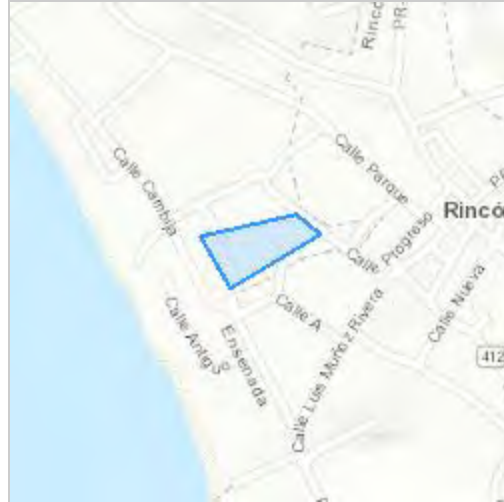
Project Code: 2024-0074858
Project Name: Estacionamiento Urbano PR-CR-000505
Project Type: New Constr - Above Ground
Project Description: Location:Parque Street, Bo. Pueblo Rincón, PR (18.340798°, -67.253325°)
Duration of construction: Approximately 220 calendar days

The project consists of the construction of a parking lot that will include the following:

1. Preparation of the ground to carry out a correct installation of asphalt pavement and concrete in all required areas.
2. Installation of bumper protectors/wheel stops.
3. Construction of approximately 70 parking units.
 - ADA Compliance units
 - Motorcycle units
4. From pavers and/or porous concrete at access entrances (ADA compliance).
5. Green Initiatives:
 - "Landscaping" works.
 - Installation of solar lighting poles.
 - Inside the existing parking lot, there is a tree (Ceiba) which will be protected and delimited.
6. Installation of signs accordingly.
7. Construction of a drainage system.
8. Construction of an entrance.
9. Construction of some rest area (Construction of a "canopy" with fixed furniture).
10. Construction of an area to observe the "Ojo de agua" (the observation area will be substantially distant from the "ojo de agua").

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.33950235,-67.25318216567263,14z>



Counties: Rincón County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 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 Fisheries¹, 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.

-
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 <i>Trichechus manatus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. <i>This species is also protected by the Marine Mammal Protection Act, and may have additional consultation requirements.</i> Species profile: https://ecos.fws.gov/ecp/species/4469 General project design guidelines: https://ipac.ecosphere.fws.gov/project/JFSCQFS4KJAYLDLVH4VJD2PS6A/documents/generated/7138.pdf	Threatened

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> 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/JFSCQFS4KJAYLDLVH4VJD2PS6A/documents/generated/7159.pdf	Endangered

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.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider

implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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.

MARINE MAMMALS

Marine mammals are protected under the [Marine Mammal Protection Act](#). Some are also protected under the Endangered Species Act¹ and the Convention on International Trade in Endangered Species of Wild Fauna and Flora².

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 Fisheries³ [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.

-
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.

FRESHWATER EMERGENT WETLAND

- PEM1F

IPAC USER CONTACT INFORMATION

Agency: Municipio of Rincón
Name: Jose De La Rosa
Address: Calle 10 Ave Montecarlo #866
City: San Juan
State: PR
Zip: 00924
Email: jose.delarosa@aegroup-pr.com
Phone: 7876159371

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:

10/24/2024 15:50:06 UTC

Project code: 2024-0074858

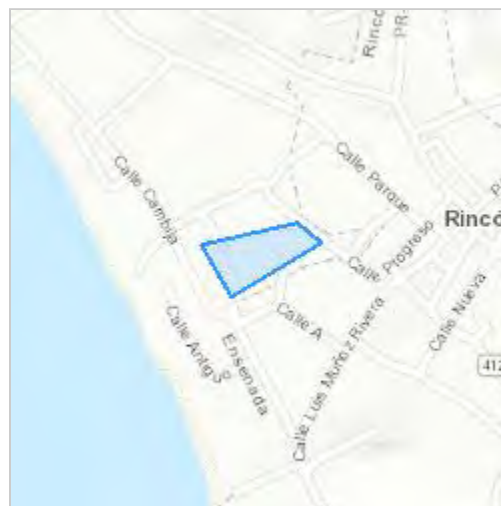
Project Name: Estacionamiento Urbano PR-CR-000505

Subject: Concurrence letter for the project named 'Estacionamiento Urbano PR-CR-000505' 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 October 24, 2024, Jose De La Rosa used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'Estacionamiento Urbano PR-CR-000505'. The project is located in Rincón County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.33950235,-67.25318216567263,14z>



The following description was provided for the project 'Estacionamiento Urbano PR-CR-000505':

Location: Parque Street, Bo. Pueblo Rincón, PR (18.340798°, -67.253325°)
Duration of construction: Approximately 220 calendar days

The project consists of the construction of a parking lot that will include the following:

1. Preparation of the ground to carry out a correct installation of asphalt pavement and concrete in all required areas.
2. Installation of bumper protectors/wheel stops.
3. Construction of approximately 70 parking units.
 - ADA Compliance units
 - Motorcycle units
4. From pavers and/or porous concrete at access entrances (ADA compliance).
5. Green Initiatives:
 - "Landscaping" works.
 - Installation of solar lighting poles.
 - Inside the existing parking lot, there is a tree (Ceiba) which will be protected and delimited.
6. Installation of signs accordingly.
7. Construction of a drainage system.
8. Construction of an entrance.
9. Construction of some rest area (Construction of a "canopy" with fixed furniture).
10. Construction of an area to observe the "Ojo de agua" (the observation area will be substantially distant from the "ojo de agua").

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
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	NLAA

Based on the answers provided in IPaC, the proposed project is consistent with a "may affect but is not likely to adversely affect" (NLAA) for the species listed above because your project impacts to the species will be avoided or minimized using the **Conservation Measures** you agreed to implement. These conservation measures must be implemented during the project development to ensure compliance with Section 7(a)(2) of the ESA.

No further action is required for the species listed above. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a “may affect, not likely to adversely affect” (NLAA) determination for federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

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.

- 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

Estacionamiento Urbano PR-CR-000505

2. Description

The following description was provided for the project 'Estacionamiento Urbano PR-CR-000505':

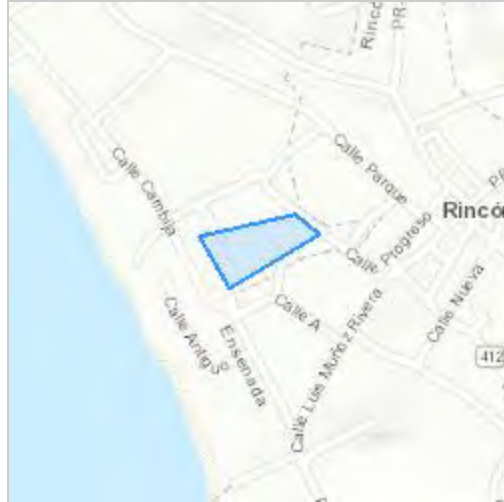
Location:Parque Street, Bo. Pueblo Rincón, PR (18.340798°, -67.253325°)

Duration of construction: Approximately 220 calendar days

The project consists of the construction of a parking lot that will include the following:

1. Preparation of the ground to carry out a correct installation of asphalt pavement and concrete in all required areas.
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8. Construction of an entrance.
9. Construction of some rest area (Construction of a "canopy" with fixed furniture).
10. Construction of an area to observe the "Ojo de agua" (the observation area will be substantially distant from the "ojo de agua").

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.33950235,-67.25318216567263,14z>



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, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant. .

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

Yes

9. Is the proposed project a new facility which would require earth moving, vegetation clearing, or debris removal using heavy machinery, the use of staging areas, construction of temporary access roads?

Yes

10. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

11. Will the proposed project implement the U.S. Fish and Wildlife [Puerto Rican boa Conservation Measures](#)?

Yes

12. Are you the Federal agency or designated non-federal representative for the proposed action?

Yes

IPAC USER CONTACT INFORMATION

Agency: Municipio of Rincón
Name: Jose De La Rosa
Address: Calle 10 Ave Montecarlo #866
City: San Juan
State: PR
Zip: 00924
Email: jose.delarosa@aegroup-pr.com
Phone: 7876159371

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

ESTACIONAMIENTO URBANO PR-CR-000505

BIOLOGICAL ANALYSIS

Prepared using IPaC

Generated by Jose De La Rosa (jose.delarosa@aegroup-pr.com)

April 15, 2024

The purpose of this document is to assess the effects of the proposed project and determine whether the project may affect any federally threatened, endangered, proposed, or candidate species. If appropriate for the project, this document may be used as a biological assessment (BA), as it is prepared in accordance with legal requirements set forth under [Section 7 of the Endangered Species Act \(16 U.S.C. 1536 \(c\)\)](#).

In this document, any data provided by U.S. Fish and Wildlife Service is based on data as of April 15, 2024.

Prepared using IPaC version 6.107.0-rc5

ESTACIONAMIENTO URBANO PR-CR-000505

BIOLOGICAL ASSESSMENT

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1 DESCRIPTION OF THE ACTION

1.1 PROJECT NAME

Estacionamiento Urbano PR-CR-000505

1.2 EXECUTIVE SUMMARY

The proposed project consist on the construction of a 70 units parking lot with the of a drainage system for the correct flow of rain water. For the duration of construction phase, the general contractor will follow all regulations for the adequate disposal of all debris generated, and warranty that all these regulations meet the requirements.

1.3 EFFECT DETERMINATION SUMMARY

SPECIES (COMMON NAME)	SCIENTIFIC NAME	LISTING STATUS	PRESENT IN ACTION AREA	EFFECT DETERMINATION
Puerto Rican Boa†. This species or critical habitat is covered by a DKey.	Chilabothrus inornatus	Endangered		NE
West Indian Manatee	Trichechus manatus	Threatened	No	NE

† This species or critical habitat has been analyzed through a Determination Key.

1.4 PROJECT DESCRIPTION

1.4.1 LOCATION



LOCATION

Rincón County, Puerto Rico

1.4.2 DESCRIPTION OF PROJECT HABITAT

Undeveloped solar that is classified as urban land.

1.4.3 PROJECT PROPONENT INFORMATION

Provide information regarding who is proposing to conduct the project, and their contact information. Please provide details on whether there is a Federal nexus.

REQUESTING AGENCY

FULL NAME

Jose De La Rosa

STREET ADDRESS

Calle 10 Ave Montecarlo #866

CITY

San Juan

STATE

PR

ZIP

00924

PHONE NUMBER

7876159371

E-MAIL ADDRESS

jose.delarosa@aegroup-pr.com

LEAD AGENCY

Department of Housing and Urban Development

1.4.4 PROJECT PURPOSE

The proposed project is for the constriction of a parking lot of approximately 70 units, the necessity to make more parking units due to the needs for more of these spaces due to the limitation the developed area of the municipality of Rincon requires.

The proposed project will require the preparation of ground, construction of approximately 70 parking units, including installation of signage, wheel stopper, green initiatives, construction of a drainage system for rain water, construction of a gazebo, and installation of a commemorative plaque.

1.4.5 PROJECT TYPE AND DECONSTRUCTION

This project is a residential, commercial, industrial development project.

1.4.5.1 PROJECT MAP



LEGEND



Project footprint



Layer 1: 70 parking unit construction, stormwater drainage systems construction

1.4.5.2 70 PARKING UNIT CONSTRUCTION

ACTIVITY START DATE

January 01, 2025

ACTIVITY END DATE

June 01, 2025

STRESSORS

This activity is not expected to have any impact on the environment.

DESCRIPTION

The solar its located in developed urban land, all work will follow directions and follow a mitigation plan for all debris generated during construction works.

1.4.5.3 STORMWATER DRAINAGE SYSTEMS CONSTRUCTION

ACTIVITY START DATE

January 01, 2025

ACTIVITY END DATE

June 01, 2025

STRESSORS

This activity is not expected to have any impact on the environment.

DESCRIPTION

The scope will only entail in the construction of a drainage system for the parking lot, debris must be disposed accordingly to regulation of local agencies.



1.4.6 ANTICIPATED ENVIRONMENTAL STRESSORS

Describe the anticipated effects of your proposed project on the aspects of the land, air and water that will occur due to the activities above. These should be based on the activity deconstructions done in the previous section and will be used to inform the action area.

1.5 ACTION AREA



LEGEND

-  Project footprint
-  Stressor location

1.6 CONSERVATION MEASURES

Describe any proposed measures being implemented as part of the project that are designed to reduce the impacts to the environment and their resulting effects to listed species. To avoid extra verbiage, don't list measures that have no relevance to the species being analyzed.

No conservation measures have been selected for this project.

1.7 PRIOR CONSULTATION HISTORY

N/A

1.8 OTHER AGENCY PARTNERS AND INTERESTED PARTIES

HUD

Municipality of Rincon

1.9 OTHER REPORTS AND HELPFUL INFORMATION

N/A

2 SPECIES EFFECTS ANALYSIS

This section describes, species by species, the effects of the proposed action on listed, proposed, and candidate species, and the habitat on which they depend. In this document, effects are broken down as direct interactions (something happening directly to the species) or indirect interactions (something happening to the environment on which a species depends that could then result in effects to the species).

These interactions encompass effects that occur both during project construction and those which could be ongoing after the project is finished. All effects, however, should be considered, including effects from direct and indirect interactions and cumulative effects.

2.1 WEST INDIAN MANATEE

This species has been excluded from analysis in this environmental review document.

JUSTIFICATION FOR EXCLUSION

The project site is at a accent distance from the ocean and any body of water that a manatee can be present.

3 CRITICAL HABITAT EFFECTS ANALYSIS

No critical habitats intersect with the project action area.

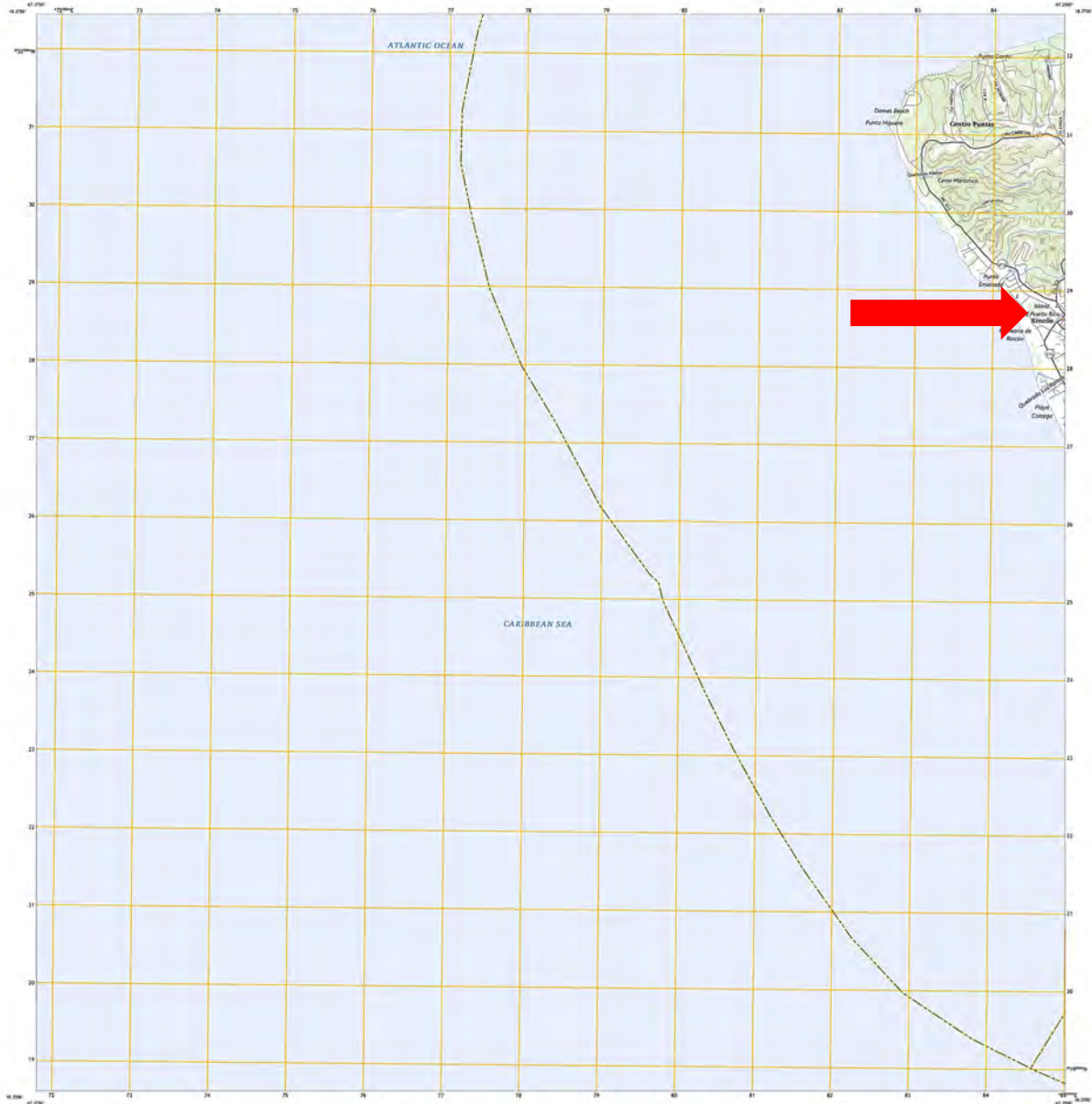
4 SUMMARY DISCUSSION AND CONCLUSION

4.1 SUMMARY DISCUSSION

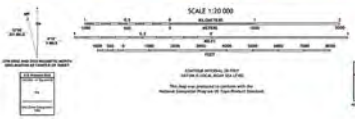
Overall, the proposed action will have no adverse effects due to the location of the solar, it will follow all regulations from local governing agencies.

4.2 CONCLUSION

Per these consultation, the proposed project will not generate any adverse impacts to the environmental specifics of the solar. Proposed project will follow all regulations from governing agencies.



Produced by the United States Geological Survey
Data derived from the 1980s
Topographic Survey of Puerto Rico
Map Scale: 1:20,000
Map Date: 1980
Map Series: 7.5-Minute Series
Map Sheet: RINCÓN DE W, PR
Map Edition: 2004



ROAD CLASSIFICATION
Interstate
Federal
State
County
Local

RINCÓN DE W, PR
2004

Topographic Map

Project: Downtown Public Parking, Municipality of Rincon, (PR-CRP-000505)
Location: Progreso Street Interior, Urban Area, Rincon, PR 00623 (18.340798°, -67.253325°)
Source: Google Earth
Website: <https://earth.google.com/web/>

APPLIED ENGINEERING GROUP

MANAGERS. ARCHITECTS. ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818
P.O. Box 361298 San Juan, Puerto Rico 00936-1298

Nombre del proyecto: Estacionamiento Urbano

Número de proyecto: PR-CRP-000505

Localización: Parque Street, Bo. Pueblo Rincón, PR (18°20'22.39"N,
67°15'9.01"W)

Dimensiones: Aproximadamente 8.080,96 m²

Número de catastro: 120-000-005-38



Figura 2. Estacionamiento Urbano

-
- Teléfono1: (787) 771-5071 • Teléfono2: (787) 771-5069 • Teléfono3: (787) 771-5070 • Fax: (787) 771-5070 •
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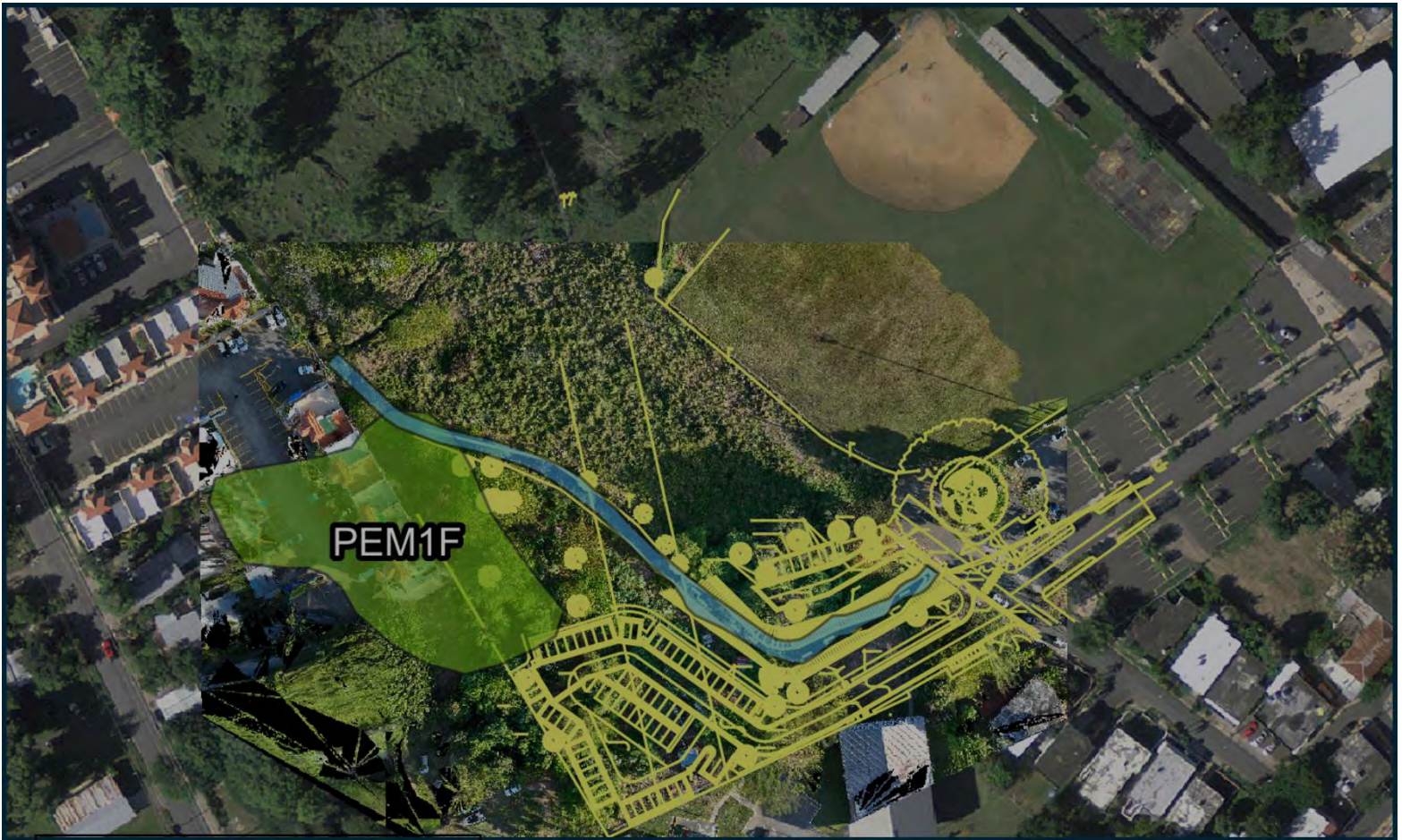


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March 2024

Wetland Characterization Report

Ojo de Agua Parking Lot Extension, Rincón, PR

Submitted to:

Applied Engineering Group

Mailing Address:

10 St. Montecarlo Ave.866
Rio Piedras, PR 00924

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Aguadilla, PR 00603

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- Attachment 1 Plot Plans & Design Drawings
- Attachment 2 USDA SOIL REPORT & HYDRIC SOIL MAP
- Attachment 3 DATA FIELD FORMS

1 INTRODUCTION

1.1 BACKGROUND

The Municipality of Rincón (MOR) has proposed the expansion of the existing Parking Lot “Ojo De Agua” located in the downtown area of the municipality as part of the city revitalization proposed projects for the City Revitalization Program subsidized with funds from the from the Puerto Rico Department of Housing (PRDOH). This report covers the area delimited as the proposed project as presented in preliminary drawings provided by Applied Engineering Group, Corp (AEG) and provides wetland identification and characterization properties for the proposed project area with purpose of complying with Environmental Review Record process. This report aims to identify, characterize, and map the characteristics of wetlands present in the area based on regulatory guidelines and criteria. The field collection data process involves field observations, soil observations, vegetation surveys, and hydrological assessment for the site to determine the presence of wetland characteristics. The information presented in this report serves as a tool in the decision process for the Wetlands (CEST and EA) – Partner Checklist from the US Department of Housing and Urban Development (USDOH) to comply with the National Environmental Policy Act (NEPA).

Although this report does not constitute a wetland delineation, it utilizes methods used for the delineation of wetland as well as additional techniques such as remote sensing and geographical information data collection and analysis for the identification of wetland properties in the proposed project area and its vicinity.

1.2 PROPOSED PROJECT AREA

1.2.1 General Description – Site Area

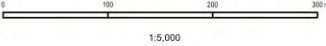
The proposed area for the project is approximately 8,250.186 (First Stage Area) (See **Attachment 1 – Plot Plan**) square meters (m²) its located in Rincón downtown area (18.0000, -67.0000) and its mainly composed of the following attributes: (1) rainwater canal/ditch which passes through the project designated area dividing the project area into two main areas; (2) north area (Sub-Area A1) and (3) south area (Sub-Area A2). The area is located to the east of the Rincón coastal area at approximately 250 meters (m). The area is surrounded by residential and commercial uses.

The general composition of the area is mainly vegetation areas and areas occupied by a homemade structure that are located within the project area (See **Figures 1-1, 1-2**). The homemade structures are used for raising chickens and farm animals such as goats. The other main composition in the project area is the main rainwater canal/ditch which travels mainly in the center of the area divides the main site area into two sub-areas.

FIGURE 1-1
USGS TOPOGRAPHIC QUADRANGLE



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

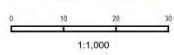


USGS Topographic Quadrangle - Site Area
Figure 1-2

FIGURE 1-2
SITE AREA



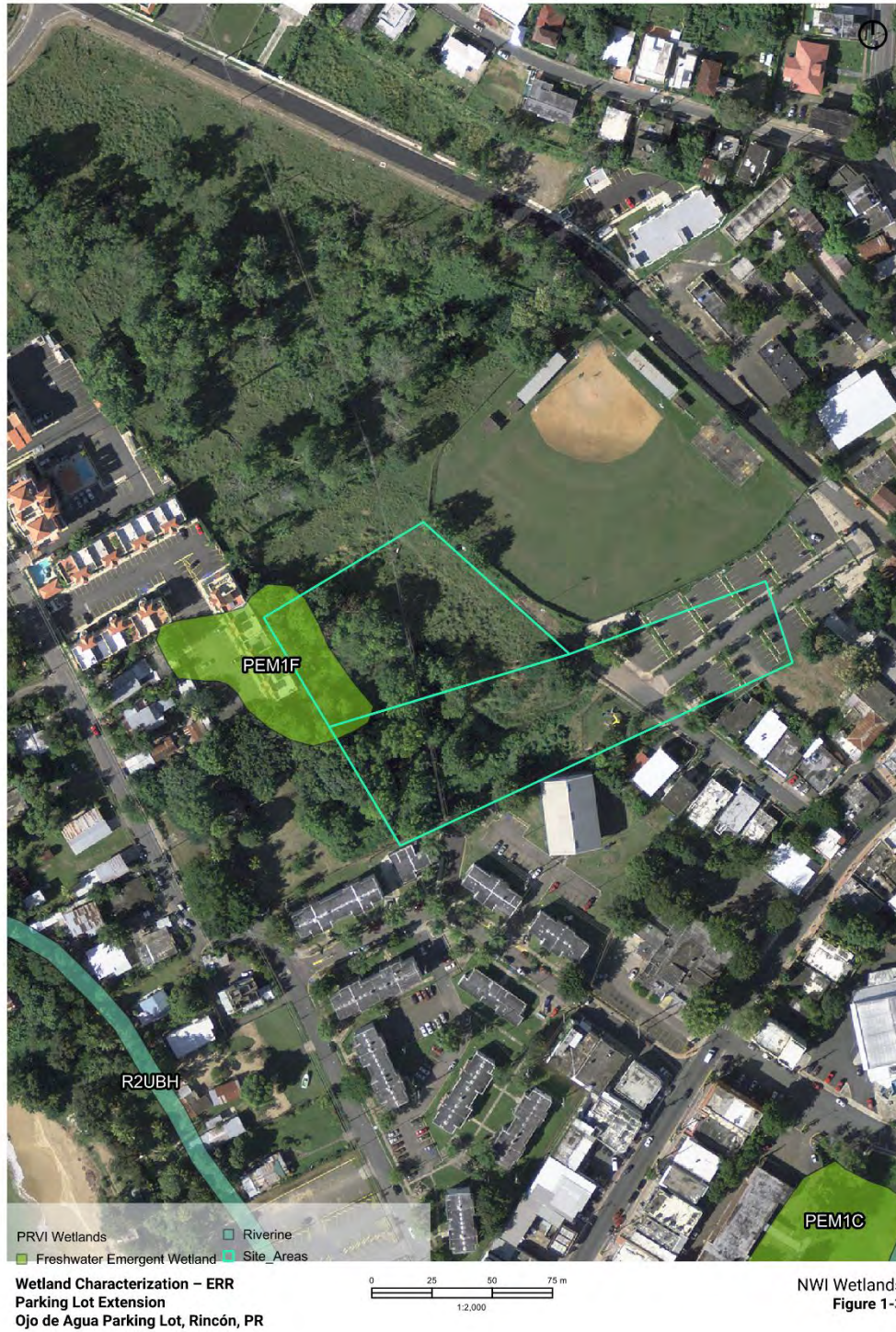
Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR



Site Area (Phase 1 and Phase 2)
Figure 1-1

The National Wetland Inventory (NWI) identifies an Emergent Freshwater Wetland (EFW) identified as PEM1F to the northwest of the proposed project area.

FIGURE 1-3
NWI – PEM1F



1.2.2 Sub-Area 1

Sub-Area A1 (S-A1) is comprised of 869.579 sq m and its located in the north portion of the project area. The area is mainly composed of open area of vegetation with deposits of construction debris and vegetative debris deposited illegally. Specifically, the vegetation debris gives a false sense of the actual topography of the area whereas deposits may range between 1 m and 1.5 m from the actual ground. Vegetative and construction debris found in this area can most likely be located in the front or adjacent to the main road. None of the sections or areas identified as PEM1F wetland in the NWI are located within this area.

Topography for S-A1 ranges from 4 m to 2 m following direction of the rainwater canal/ditch from east to west in reference to the main road (Ojo de Agua Road), lowest point adjoining between canal and wire railing. As mentioned earlier, vegetative debris has impacted the existing topography for S-A1 where deposits seem to be in the process of degradation (See **Figure 1-2**).

1.2.3 Sub-Area 2

Sub-Area 2 (S-A2) has approximately an area of 5776.111 sq m and its composed of open areas of vegetation and areas with homemade structures used for the raising of animals such as chickens and goats. Due to the raising of animals operation, part of the area for S-A2 has been cleared for the placement of such structures. Also, debris and old car remains are present in this area.

To the northwest of S-A2 is located PEM1, approximately 1500 sq m of the total area delimited for PEM1F is located within the boundaries of S-A2. The total coverage area for PM1F is approximately 3298 sq m¹. The area of PEM1F within the proposed project footprint in S-A2 is approximately seventy-eight sq m (see **Figure 1-2**).

Topography for S-A2 ranges from 4 m to 2 m from the main road to adjoining property of Ramón Quinones Rosario and Condominium Challet Del Mar. Lowest elevation in S-A2 can be seen parallel to Phase 2 subdivision where elevation is 2 m adjoining with the rainwater canal / ditch.

¹ Area of PM1F EFW 0.814979389362 acres as documented in attribute table for NIW Geodatabase from US Fish And Wildlife Services.

**FIGURE 1-4
SUB-AREAS**



S-A1
S-A2

Site_Areas

Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

0 10 20 30 m
1:1,000

Sub-Area 1 and Sub-Area 2 Location
Figure 1-2

2 REGULATORY BACKGROUND

2.1 FEDERAL JURISDICTION

2.1.1 National Environmental Policy Act

The National Environmental Policy Act (NEPA) stands as a cornerstone of environmental legislation in the United States. Often heralded as the "Magna Carta" of Federal environmental laws, NEPA was enacted with the primary purpose of integrating environmental considerations into federal agencies' decision-making processes. It mandates that before any major federal actions are taken—those which could significantly affect the environment—agencies must assess the potential environmental impacts.

NEPA's significance lies in its requirement for federal agencies to evaluate the environmental consequences of their proposed actions prior to making decisions. This process ensures that environmental considerations are weighed equally with other factors in the planning and decision-making processes of the federal government. The act aims to foster and promote the general welfare, create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations.

By setting this precedent, NEPA has fundamentally changed how federal agencies plan their actions, ensuring that environmental effects are considered at the initial stages of planning. This has led to more informed decision-making and has contributed to the protection of the environment through the mitigation of potential negative impacts on ecosystems and communities.

2.1.2 Executive Order 11990

Executive Order (EO) 11990 was established in May 1977 with the purpose of protecting wetland resources in the United States of America (US) by avoiding to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands, and to avoid directly or indirectly any new constructions or developments where practicable alternatives are available.²

EO 11990 establishes each federal agency must lead efforts to protect wetlands, minimize damage, and enhance their values during tasks related to Federal lands, construction, and land use activities. The Order does not cover issuing permits, licenses, or allocations for wetland activities on non-Federal land to private entities.³

² Executive Order 11990 - By virtue of the authority vested in me by the Constitution and statutes of the United States of America, and as President of the United States of America, in furtherance of the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.), in order to avoid to the extent possible the long and short term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative...

³ Executive Order 11990 – Section 1

2.1.3 Section 404 Clean Water Act

Wetlands in Puerto Rico (PR) area regulated through Section 404 of the Clean Water Act (CWA) which regulates the discharge of dredge and fill material into navigable waters of the US which include wetlands⁴. Any activity which involves the filling or dredging of material in the navigable waters of the US has to comply with the solicitation of an individual permit which is reviewed by the USCOE. Such activities may include fill for development, water resource projects and construction of infrastructure.⁵

Section 404 focuses in the conservation of wetlands through prevention of dredged or fill material when (1) practicable alternatives exist to prevent significant environmental impact to aquatic environmental or (2) or the nations waters would be significantly degraded.

Wetland management is executed by the Environmental Protection Agency (EPA), United States Fish and Wildlife Services (USFWS) and the United States Corps of Engineers (USCOE).

2.2 STATE JURISDICTION

2.2.1 State Program

Wetlands at state jurisdiction for PR are mainly over sought by Department of Natural Environmental Resources and Conservation of Puerto Rico (DNERC) and the Puerto Rico Planning Board (PRPB)⁶. Each agency has areas of interest for overseeing wetlands activities in PR. Activities may be land conservation or recreation uses for an area of interest.

No state program for the management of wetlands has been adopted by the DENRC other than specific laws to delimit natural reserves in specific areas. No laws or reserve declarations were found for the area of the proposed project.

⁴ Wetlands Definition USCOE Manual 1987- Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

⁵ USEPA – Permit Program under CWA Section 404

⁶ Guide to the Ecological Systems of Puerto Rico – General Technical Report IITF-35- p-171 - The Puerto Rico Department of Natural and Environmental Resources and the Planning Board of Puerto Rico are the primary commonwealth agencies overseeing wetland protection.

3 METHODOLOGY

3.1.1 Methodology General Description

For the characterizations of wetland attributes in the proposed project area methodology established in the USCOE Wetland Delineation Manual 1987 (WDM) and USCOE Regional Supplement to the Corps of Engineers Delineations Manual: Caribbean Islands Region (Version 2.0). The regional supplement establishes methods and characteristics for the identification of the three main attributes for the identification of wetlands and their boundaries to transitional upland areas. These three indicators are (1) hydrophytic vegetation, (2) Hydric soil presence and (3) hydrology conditions for a given site. Additionally, to procedures presented in the regional supplemental remote sensing techniques were implemented by acquiring custom aerial imagery for the site using unmanned aircraft systems (UAS) for the identification and documentation of elements using geographical information systems (GIS).

Field data was collected within a period of 5 (from February 17 to 21, 2024) days where visual observations and markings were made with Global Position System (GPS) instrumentation (ISXBlue II GPS antenna) connected to Real time Kinematic (RTK) network for the field data collection. Data collected was post-processed (PP) in GIS to developed analysis and visualization products for wetland characterization for the site using the mention attributes.

3.1.2 Preliminary Data Gathering and Assessment

3.1.2.1 NWI Maps

Preliminary data gathering for existing wetland delineation by the USFWS in the NWI was verified via and wetland mapper application and later acquired NWI dataset for PR and the US Virgin Islands (USVI) to visualize existing wetland footprints in comparison to the proposed project footprint. This preliminary data visualization was used in the planning for all field work activities and to identify areas of interest where delimited existing wetlands in the NWI are mapped. Field validation for wetlands mapped in the NWI must be done to incorporate any changes that may have occurred during extended or brief period of times by human-caused or natural conditions.

PEM1F is identified as a Wetland system in the proposed project area and adjacent area. PEM1F delimited footprint was on its majority eliminated by the construction of Condominium Challet Del Mar and bordering private houses. PEM1F footprint was reduced by approximately 1655.10 sq m (51 %). The remaining 1642.46 sq m (49 %) remains as an undeveloped area border lining the rainwater canal/ditch.

3.1.2.2 Hydric Soils Database

Hydric soils are defined as soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA Soil

Conservation Service 1994). ⁷United States Department of Agriculture (USDA) and Natural Resources Conservation Service (NRCS) have developed reports (Soil Surveys) and data (soil maps) to established types of soils and characteristics for most of continental US and PR and the USVI. Preliminary data gathering of soils for the project proposed site was conducted to establish if hydric soils were present at the site, which is one of the three characteristics to wetland identification as specified in the USCOE WDM and supplement. Hydric soil list was collected for PR to evaluate list soils with the NRCS maps and soil survey prior field work. This approach focused on establishing areas of interest where hydric soils characteristics may be present as an indicator of wetlands.

Data for hydric soil maps form the USDA Web Soil Survey (WSS) to establish most current data for the type of soil in the proposed project site area and view hydric classification of the soil identified. The soil identified for the proposed project site area is identified as Igualdad Clay (Ig) and its described as a soil that receives a mean annual precipitation of 70 to 90 inches which can be found in coastal and floodplains with a composition of fine sediments over sands. Ig has properties drainage as poor and frequent flooding with no ponding ⁸(see **Attachment 2 - Soil Report**).

3.1.2.3 Hydrophytic Vegetation Database

Initial review of USCOE National Wetland Plant List (NWPL) was revised and filtered for the Caribbean Region prior field work activities, the USCOE has available referencing wetland cataloged plants via the NWPL application on the USCOE website. The application facilitates the identification and classification of wetland related plants into the following categories: (1) Obligated Wetland Plants ⁹(OBL), (2) Facultative Wetland Plants¹⁰ (FACW), (3) Facultative Plants¹¹ (FAC), (4) Facultative Upland Plants¹² (FACU) and ((5) Upland Plants¹³ (UPL).

⁷ Hydric soil definition as defined in USCOE Caribbean Supplement in Section 3 Hydric Soil Indicators. p-23.

⁸ Custom Soil Resource Report for Mayaguez Area, Puerto Rico Western Part – AOI – Ojo de Agua – Parking Lot Extension – Soil Description - p-13.

⁹ Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1 percent) in non-wetlands. Examples: *Spartina alterniflora*, *Taxodium distichum*.

¹⁰ Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands Plants but also occur (estimated probability 1 percent to 33 percent) in non-wetlands. Examples: *Fraxinus pennsylvanica*, *Cornus stolonifera*. Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands Plants but also occur (estimated probability 1 percent to 33 percent) in non-wetlands. Examples: *Fraxinus pennsylvanica*, *Cornus stolonifera*.

¹¹ Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and non-wetlands. Examples: *Gleditsia triacanthos*, *Smilax rotundifolia*.

¹² Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands. Plants wetlands but occur more often (estimated probability >67 percent to 99 percent) in non-wetlands. Examples: *Quercus rubra*, *Potentilla arguta*.

¹³ Plants that occur rarely (estimated probability <1 percent) in wetlands but occur almost always (estimated probability >99 percent) in non-wetlands under natural conditions.

3.1.2.4 Hydrology

United States Geological Survey (USGS) has datasets on orthomosaic aerial imagery for the continental US, PR and the USVI. 2010 high resolution aerial imagery was gathered from USGS datasets to establish and analyze historical conditions for the proposed project site. Also, aerial imagery is used to establish elements in the area such as waterways, adjacent surface waters, coastline, etc. In addition to the historic aerial imagery USGS Topographic quadrangle for the project site area for the identification of any surface water bodies delimited.

Upon review of 2016 aerial imagery for the project site area (**See Figure 3-2**) the rainwater canal / ditch is barely visible and can be observed that the area was populated by low dense vegetations and trees.

FIGURE 3-1
2016 SITE AERIAL VIEW - HYDROLOGY



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

0 25 50 75 m
1:2,000

2016- Aerial View - Hydrology
Figure 3-1

USGS 2018 Topographic quadrangle “Rincon-OE-W-20181016” (see **Figure 1-1**) shows an identified marsh symbol in the location where NWI locates PEMF1. The topographic quadrangle does not show any waterways or surface waterbodies in the area. Also, floodplain maps were checked via the Federal Emergency Management Agency (FEMA)

3.1.3 Wetland Characterization Methodology

3.1.3.1 Hydrophytic Vegetation

For the identification of hydrophytic vegetation in the proposed project site the methodology presented in the USCOE WDM, and supplement was used to establish to collect vegetation samples in the proposed project site. The USCOE manual defines hydrophytic vegetation as the community of macrophytes that occurs in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to influence plant occurrence.¹⁴ Vegetation communities locations were established during the preliminary data gathering utilizing aerial imagery, post-preliminary assessment for location of communities.

Individual baselines were established in S-A1 and S-A2 to establish transects towards the rainwater canal/ditch/ditch to determine wetland vegetation and upland indicator for the existing vegetation in S-A1 and S-A2. Sample points were marked using GPS antenna to document absolute percentages of stratum cover (trees, shrubs, woody vines, herbs) for the area. For each sampling point plots measure in feet (ft) were established following radius in USCOE WDM. The following plot sizes were used for the specified stratum: (1) tree stratum a 30 ft radius plot, (2) shrub stratum a 15 ft radius, (3) herb stratum 5 ft plot radius using 3.28 square plots.

For tree stratum, all trees consisting of three inches (in.) diameter at breast height (DBH) were documented in the field form using scientific notation within the 30 ft radius plot, all sapling and shrubs less than 3 in. and a DBH greater than 3.28 ft were documented,

Due to the size and configuration of S-A1 and S-A2 plot sizes had to be adapted to field conditions and plots were adjusted to fit vegetation communities in these areas. In post-processing of the vegetation data collected the dominance test was used to determine wetland identification.

3.1.3.2 Hydric Soils

WSS was reviewed as part of the preliminary assessment prior commencement of field work activities for identification of hydric soils identified by the USDA NRCS. On site soil characterization was done in S-A1 using Munsell Soil Color Chart , texture and visual observation of the soil in S-A1 and S-A2 were documented for hydric soil indicators.

¹⁴ Hydrophytic vegetation definition from USCOE Regional Supplement to Wetland Delineation Manual – Caribbean Islands – Section 2 Hydrophytic Vegetation Indicators – p-9.

3.1.3.3 Hydrologic Conditions

For identification of hydrology conditions, as mentioned earlier, prior site visits review of aerial imagery and other data sources was done. For verification of onsite hydrology conditions visual observations were taken and mark with GPS antenna throughout the S-A1 and S-A2 documenting any hydrology indicators as defined in the USCOE WDM. All hydrology indicators were documented using field electronic form and photo documented (see **Attachment 3 – Data Forms**).

3.1.3.4 Remote Sensing

Photogrammetry for the proposed project site area was executed using UAS with RTK for georeferencing aerial images within 1cm and 3cm for ground sampling resolution. The georeferenced aerial images capture were post-processed (PPK) to develop a geo-referenced orthomosaic of the proposed project area.

The aerial orthomosaic was used to evaluate and illustrate the project site in during actual conditions in 2024 and to identify any additional wetland indicators and ecological communities that were unreachable during site visits.

3.1.3.5 Boundary Placement Analysis

The rationale used for the placement of boundary locations for wetland were the existing conditions on site including the rainwater canal/ditch and site boundaries delimited in the plot plan by Agrim. Dennis Vargas (Surveyor). Also, field data collected during the site visits to visualize transition areas between wetland areas and upland areas following identified indicators.

The main attributes considered for placement of boundaries in regard to the proposed project location were low elevation areas and high elevation areas within the proposed site topography for the area, properties surrounding the area (public and private) and indicators conditions to meet wetland definition as per USCOE WDM. In most areas the transition between the slope of the rainwater canal/ditch was notable where *Ricinus Communis L.* (Higuereta) and *Megathyrus maximus* (Jac.) (Guinea weed) were present as dominant species transitioning to upland vegetation such as *Terminalia catappa* (tropical almond trees) and *Albizia lebeck* (Acacia amarilla) being the predominant species for S-A1 and S-A2. Also, the presence of *Typha domingensis* (Eneas Weed) in areas where surface water was present. Other factors to determine field boundaries for wetlands were previously recorded locations in the NWI.

Consideration for the area delimited in wetland PEM1F was considered for boundary establishment in regards with the proposed project footprint. All boundary placement have been documented in Figures presented through the document.

4 SITE FINDINGS – WETLAND CHARACTERIZATION

4.1.1 Wetland and Surface Waters S-A1

4.1.1.1 Overview

For S-A1 wetland indicators were identified and delimited this area as Wetland A. Wetland A is not mapped in NWI, Wetland A is shown in **Figure 4-1** and in Sampling point P1 and P2 (see **Attachment 3**). Wetland A is located in in the southwest area of S-A1 and runs perpendicular to the wetland boundary documented for PEM1F located to the west of S-A1, this area appears to be the toe of the rainwater canal/ditch and runs towards the rainwater canal, where elevation for the site is lower and the slope or containment area for the water canal/ditch is reduced to the borderline of the adjacent private property which used for the raising of cattle.

Ponding water and *Typha domingensis* (Enea weed) can be observed in this area with little to no movement of water during regular conditions for the site. The mentioned area is approximately 10 m of the borderline established for phase II in the provided plans. This area is outside the Phase I area of the proposed project.

**TABLE 4-1
SUB AREA 1 WETLAND SUMMARY**

Name	NWI ID	Map (Figure)	Sampling Points (Forms)	NWI Total Area (Acres)	Total Field Area (Acres)	Area within Project (Acres)
Wetland A	-	Figure 4-1	P1	0.0		0.00

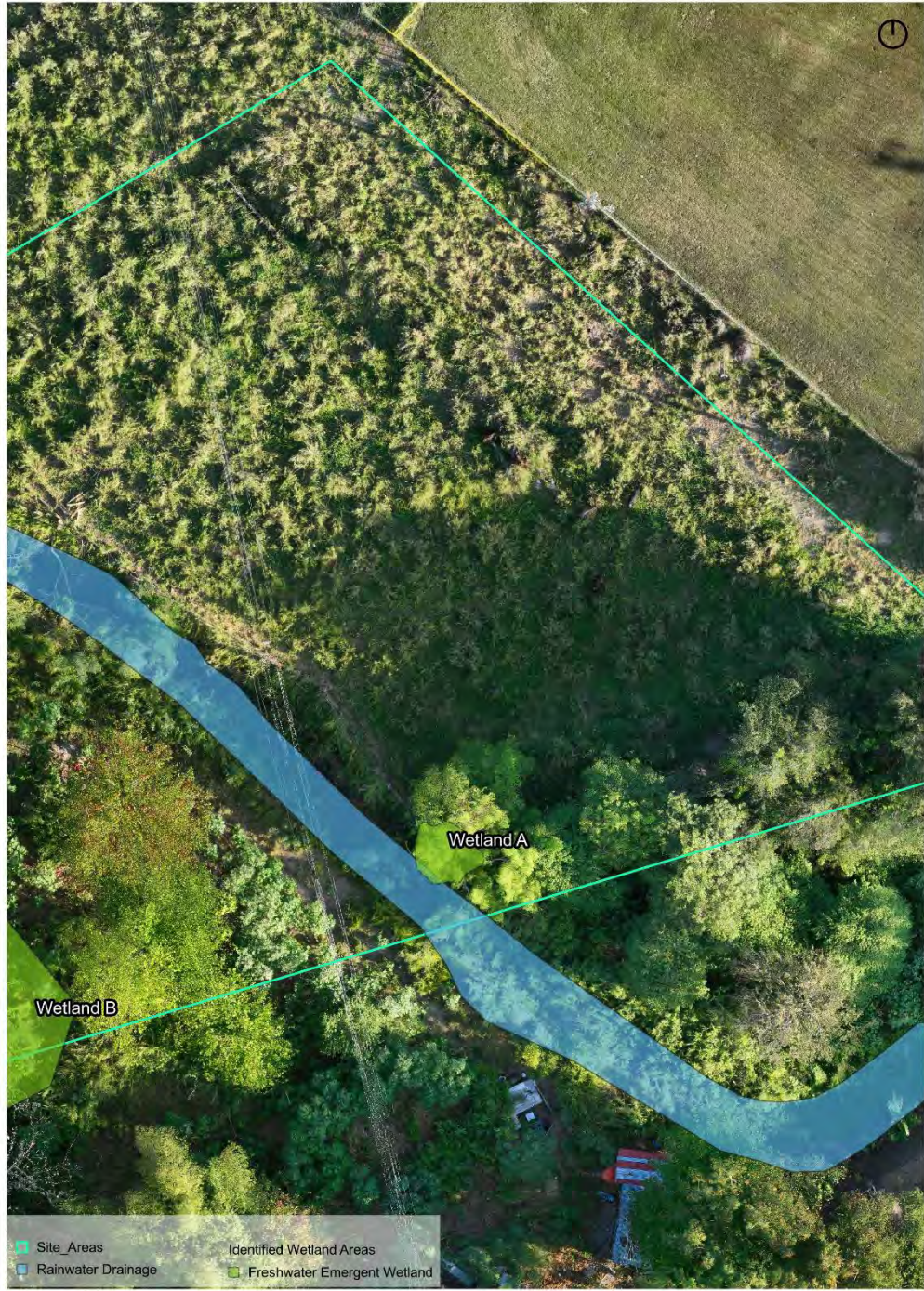
FIGURE 4-1
IDENTIFIED WETLANDS S-A1, S-A2



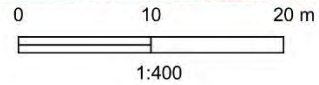
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Identified Wetlands S-A1, S-A2
Figure 4-1

**FIGURE 4-2
WETLAND A S-A1**



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**Wetland A S-A1
Figure 4-2**

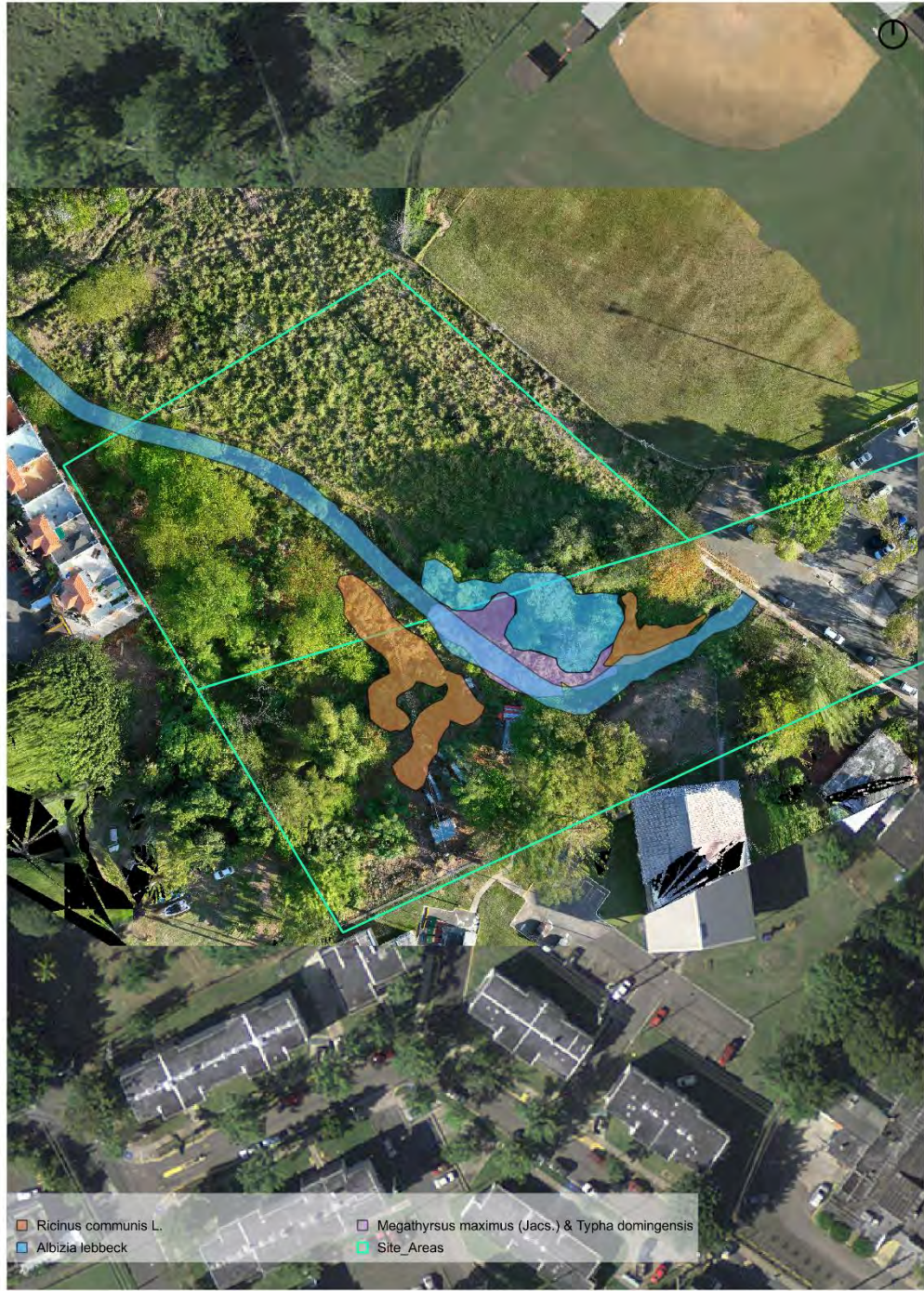
4.1.1.2 NWI Mapping

NWI does not delineate any wetlands for S-A1 and PEM1F identified wetland is located in S-A2. PEM1F is classified as a freshwater emergent wetland.

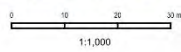
4.1.1.3 Ecological Communities

S-A1 is composed of mostly ecological communities for *Albizia lebbbeck* as the main dominant species for the tree species in conjunction with *Ricinus communis* L. and *Megathyrsus maximus* (Jac.) for upland and upland transitioning species. Small community of *Typha domingensis* can be found in the edge of rainwater canal/ditch in the west side going into the accumulated water in the rainwater canal/ditch into a small patch within the canal. No vine specimens were documented in this area.

FIGURE 4-3
ECOLOGICAL COMMUNITIES S-A1



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Ecological Communities - S-A1
Figure 4-3

4.1.1.4 Sampling Points

4.1.1.4.1 Sampling Point P1 (Wetland Emergent)

Sampling point P1 is located in the west area of S-A1 and it was the first sampling point to be indicative of wetland attributes which resulted in the establishment of the boundary for Wetland A (**Figure 4-2**). Dominant plants observed in P1 included *Albizia lebeck* (UPL) in the tree stratum, *Ricinus communis* L (FACU) in the sapling/shrub stratum and *Typha domingensis* (OBL) and *Megathyrsus maximus* (Jacq.) (FACU) in the herb stratum. No specimens were observed in the vine stratum. Primary hydrology indicators observed were surface water (A1) with approximately 4 in. in depth in what appears to be part of the waterway in the canal. Secondary hydrology indicators were not observed in P1. Soil indicators observed were Histosol (A1) and a soil texture of sandy clay with 10 YR 3/1 value in Munsell color chart. No other soil indicators were observed in P1 (see **Attachment 3, P1 Data Form**).

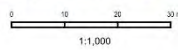
4.1.1.4.2 Sampling Point P2 (Upland)

Sampling Point P2 is located to the upper north of area of S-A1 and it is the closest sampling point to the main road “Calle Ojo de Agua”. Dominant plant species observed in this area for the tree stratum were *Terminalia catappa* (UPL), *Ricinus communis* L. (FACU) for the sapling/shrub stratum and *Malvastrum coromandelium* (L.) (FACU) and *Megathyrsus maximus* (Jacq.) (FACU) in the herb stratum. No soil sampling was done in P2, nevertheless visual and color and texture for the soil is consistent with P1 soil sampling. No hydrology indicators were observed in this P2 (see **Attachment 3, P2 Data Form**).

FIGURE 4-4
SAMPLING POINT S-A1



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Sampling Points - S-A1
Figure 4-4

4.1.2 Wetland and Surface Waters S-A2

4.1.2.1 Overview

For S-A2 is located to the wests of the rainwater canal/ditch and borders with residential public housing facility Santa Rosa and private housing facility Condominium Challet Del Mar. PEM1F footprint was reduced in approximately 1655.64 sq m (51 %) . The remaining Wetland indicators were evaluated for the remaining approximately 1642.46 (49 %) of the original PEM1F footprint. Out of the remaining 49%, approximately seventy-three. 64 (4.4 %) sq m are located within the proposed project area (**See Figure 4-5**).

S-A2 is a low elevation area, and it appears to drain towards the rainwater canal/ditch. Elevation in this area tends to increase in direction towards the main road. Surface water can be observed in the rainwater canal with no evident movement, mostly accumulating to pass under Challet Del Mar Condominium parking lot to drain into the coastline located to the east of S-A2.

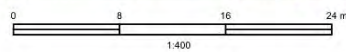
**TABLE 4-2
 SUB-AREA 2 WETLAND SUMMARY**

Name	NWI ID	Map (Figure)	Sampling Points (Forms)	NWI Total Area (Acres)	Total Field Area (Acres)	Area within Project (Acres)
Wetland B	PEM1F	4-1	P3, P4	0.81	0.40	0.01

**FIGURE 4-5
WETLAND B S-A2**



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**Wetland B S-A2
Figure 4-5**

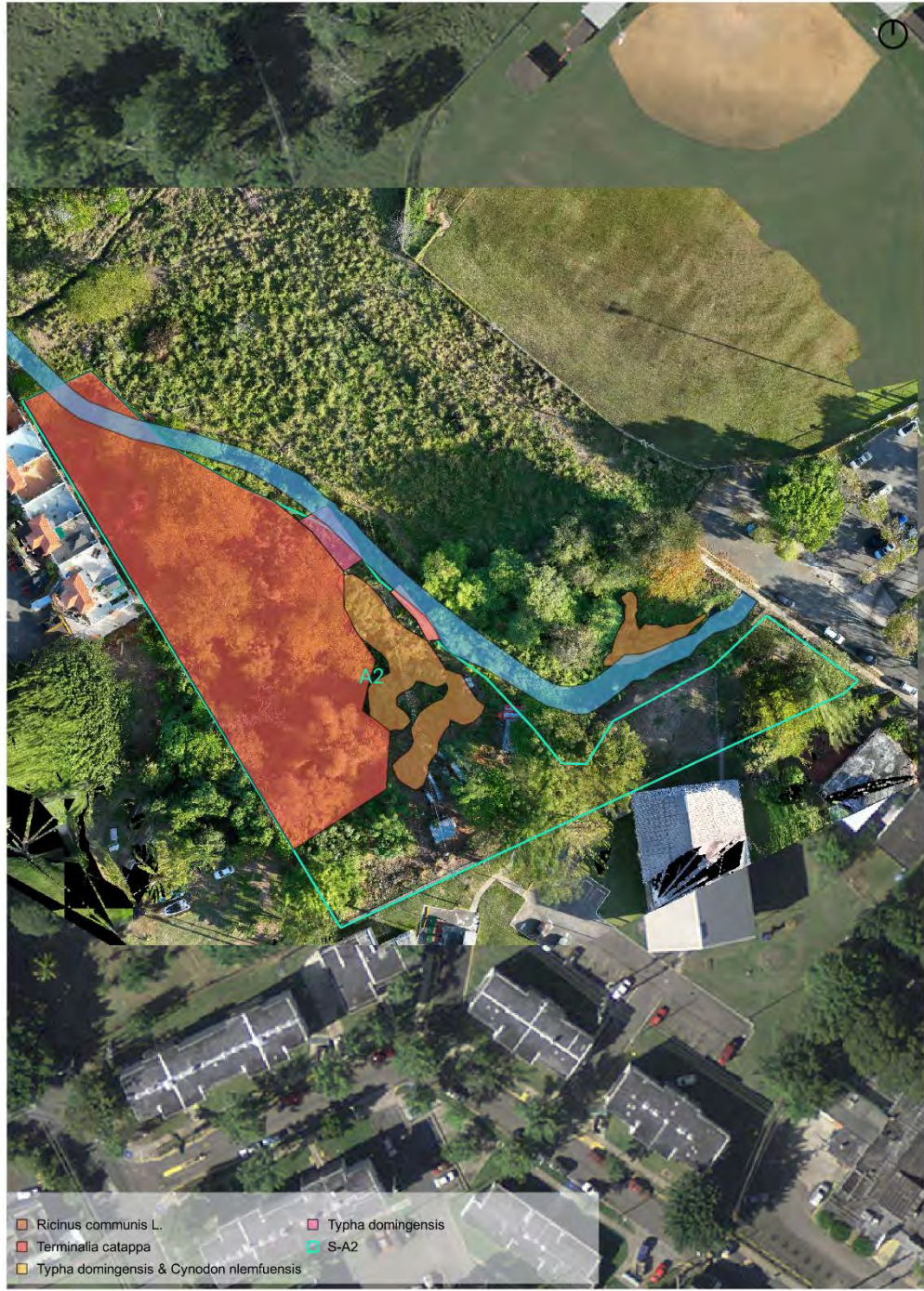
4.1.2.2 NWI Mapping

NWI delineates PEM1F as Freshwater Emergent Wetland, approximately 51 % of PEM1F was lost to construction of Challet Del Mar Condominium and private housing and 49 % of the original footprint delineated in NWI remains in S-A2 as described in the section above (**See Figure 4-5**).

4.1.2.3 Ecological Communities

S-A2 is composed of mostly ecological communities for *Terminalia catappa* is the main dominant species for the tree species in conjunction with *Ricinus communis L* (FACU). in the sapling/shrub stratum and *Cenchrus echinatus* (UPL) in the herb stratum for upland and upland transitioning species. *Terminalia catappa* (FACU) can be found bordering all of the rainwater canal/ditch all the way upland in direction of the main access road. A *Ricinus communis L* (FACU). patch can be observed in the upper middle of S-A2. A small community of *Typha domingensis* (OBL) can be observed in the rainwater canal/ditch. No vine specimens were documented in this area (**See Figure 4-6**).

**FIGURE 4-6
ECOLOGICAL COMMUNITIES S-A2**



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**Ecological Communities - S-A2
Figure 4-6**

4.1.2.4 Sampling Points

4.1.2.4.1 Sampling Point P3 (Emergent)

Sampling Point P3 is located in the northeast area of S-A2 within PEM1F boundary, and it is an emergent wetland as delineated in the NWI (see **Attachment 3, P3 Data Form**), dominant plant species in the tree stratum *Terminalia catappa* (FACU) and *Cenchrus echinatus* (UPL) in the herbaceous stratum. No primary or secondary hydrology indicators were observed in P3. Nonetheless, low elevation for the area in combination with the rainwater canal/ditch configuration gives the impression that the area floods during significant rain events, which may present favorable conditions for the emergent wetland to continue developing. No plants for the vine stratum were identified for P3. No soil sample holes were dug in this area due to access limitations, but soil texture and surface color is consistent with P1 soil sample observations.

4.1.2.4.2 Sampling Point P4 (Upland)

Sampling Point P4 is located near the center of S-A2 border lining with the rainwater canal/ditch. Dominant species found in P3 include *Ricinus communis* L.(FACU) in the sapling/ shrub stratum and *Cynodon nlemfuensis* (UPL) and *Typha domingensis* (OBL) in the herb stratum. Although *Typha domingensis* (OBL) was identified in a small patch in the area, all specimens are contained within the rainwater canal/ditch at a lower elevation from the upland species. As mentioned in previous sections, topography for the site has been altered and the original toe of the canal/ditch bank is difficult to identify. As a conservative approach species, it has been documented to be considered. No plants for the tree stratum and vine stratum were identified for P4. No soil sample holes were dug in this area due to access limitations, but soil texture and surface color is consistent with P1 soil sample observations (see **Attachment 3, P4 Data Form**).

**FIGURE 4-7
SAMPLING POINTS S-A2**



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**Sampling Points - S-A2
Figure 4-7**

5 CONCLUSIONS

5.1 WETLAND CHARACTERIZATION SUMMARY

This report identifies wetland characteristics for the proposed site project to facilitate the decision-making process for the ERR for the proposed action regarding the evaluation of potential impacts to wetland resources and the mandate established in EO11990 for wetland protection.

The report integrates data from fieldwork and other existing resources such as NWI maps, aerial imagery, surface water maps, etc. Two areas were designated as study areas for identifying wetland resources (S-A1, S-A2) within the proposed site. Two wetlands were identified: (1) Wetland 1 in S-A1 and (2) PEM1F, a wetland included in the NWI, although its delineated footprint has been reduced by approximately 51%. Nevertheless, the remaining 49% of the area designated as PEM1F still exhibits wetland characteristics.

Wetland 1, a small area in S-A1, was not delineated, but three main indicators for the presence of wetland were identified as established in the USCOE WDM. Wetland 1 lies outside the boundaries of the project site. Wetland 2, delineated in NWI, has experienced area loss but still displays wetland characteristics, although most of the vegetation present is classified as FACU or UPL. Less than 0.01 acres of the area are within the proposed project area boundary.

5.2 RECOMMENDATION

As mentioned, Wetland 1 it is out of the boundaries of the proposed project area and no action needs to be taken, with the proposed project with exemption of the establishment of sediment and erosion controls for the prevention of sediment discharges and deposition.

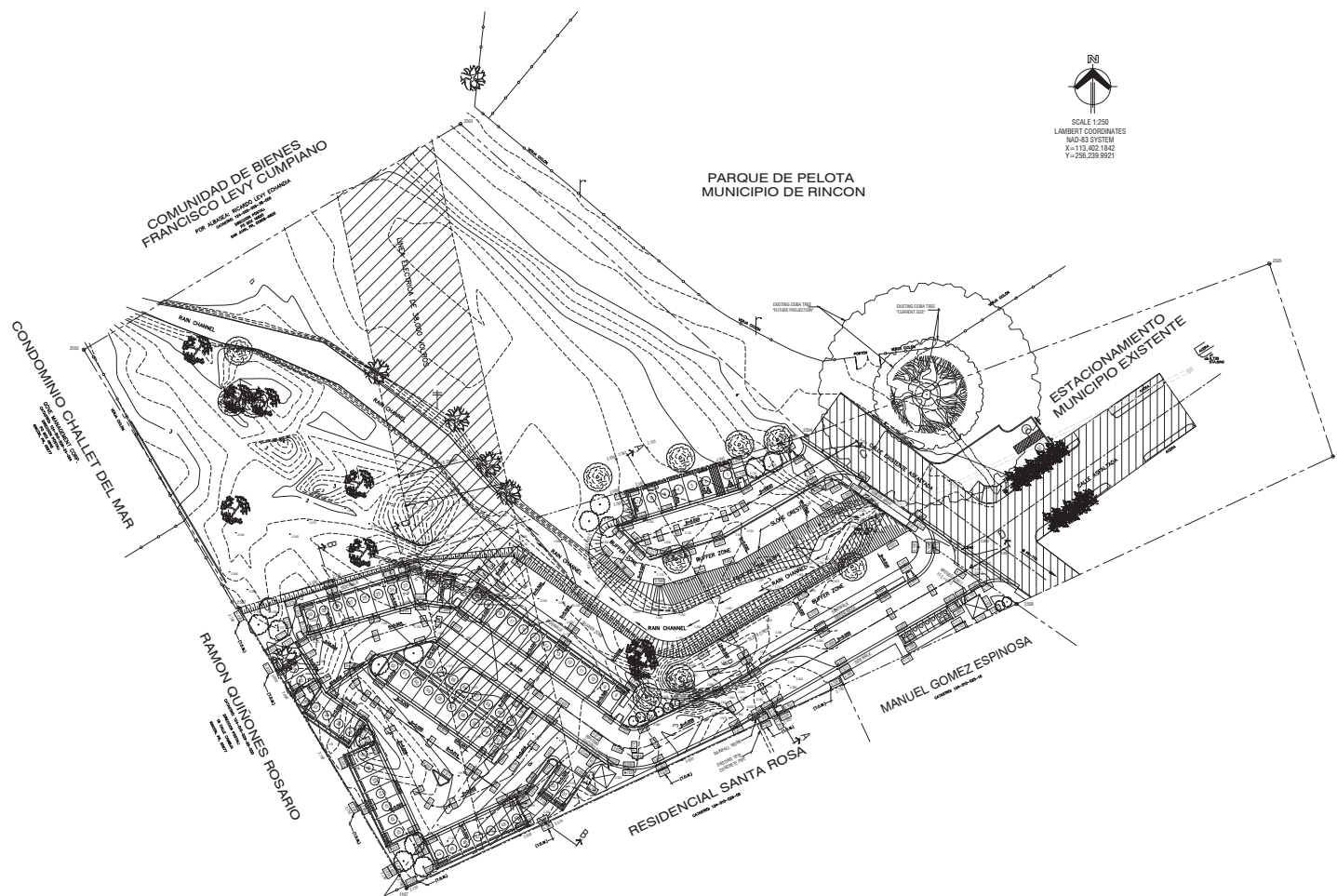
Wetland 2 has an area of 0.01 acres within the proposed project area, its recommended to adjust the proposed project footprint to maintain existing condition of the wetland. Redistribution of parking spaces 27 through 30 (see **Attachment 1 – Proposed Site Plan**) may be converted buffer zone, green open space or other feasible alternative that the designer may propose to retain existing conditions and area for PEM1F. Also, sediment and erosion controls have to be implemented for the prevention of sediment discharges and deposition during construction phases and operation.

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Wetland Characterization – ERR – Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

ATTACHMENT 1
PLOT PLANS & DESIGN DRAWINGS



PARQUE DE PELOTA
MUNICIPIO DE RINCON

SCALE 1:250
LAMBERT COORDINATES
MAD-45 SYSTEM
X=113,402.1842
Y=256,239.9821

PROPOSED GRADING SITE PLAN
SCALE 1:250

AMERICAN ENGINEERING GROUP
120 N. Harborside Avenue, #202, P.O. Box 50204
San Juan, P.R. 00905-0204
Tel: 787-763-1234 Fax: 787-763-1235

CONSULTANT	
DEVELOPER	
DATE	
PROJECT	
REVISIONS	

THIS PLAN WAS PREPARED BY THE ENGINEER OR ARCHITECT ON THE BASIS OF INFORMATION SUPPLIED BY THE CLIENT AND THE ENGINEER OR ARCHITECT HAS NOT CONDUCTED A VISUAL SURVEY OF THE SITE NOR HAS HE OR SHE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS. THE ENGINEER OR ARCHITECT HAS NOT CONDUCTED A VISUAL SURVEY OF THE SITE NOR HAS HE OR SHE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS. THE ENGINEER OR ARCHITECT HAS NOT CONDUCTED A VISUAL SURVEY OF THE SITE NOR HAS HE OR SHE CONDUCTED A SURVEY OF THE EXISTING CONDITIONS.

PROPOSED GRADING SITE PLAN
PUBLIC PARKING LOT PROJECT
LOCATED AT STATE LOT 100, PARCEL 100, THE CERRADA WINGS
IN THE MUNICIPALITY OF RINCON, PUERTO RICO.

DATE: 11/15/2011
DRAWN BY: JOSE M. AGOSTA SABA
CHECKED BY: JUAN A. AGOSTA SABA
DATE: 11/15/2011

SI-3.0

ATTACHMENT 2
USDA SOIL REPORT & HYDRIC SOIL MAP



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Mayaguez Area, Puerto Rico Western Part

**AOI - Ojo De Agua - Parking Lot
Exstension**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

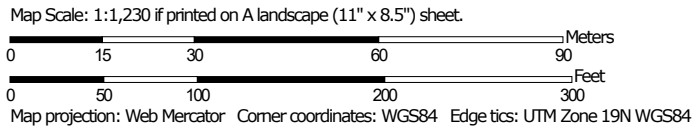
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



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: Mayaguez Area, Puerto Rico Western Part
 Survey Area Data: Version 19, Sep 13, 2023

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
Ig	Igualdad clay	3.0	96.0%
UI	Urban land	0.1	4.0%
Totals for Area of Interest		3.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Mayaguez Area, Puerto Rico Western Part

Ig—Igualdad clay

Map Unit Setting

National map unit symbol: bysy
Elevation: 10 to 200 feet
Mean annual precipitation: 70 to 90 inches
Mean annual air temperature: 77 to 79 degrees F
Frost-free period: 365 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Igualdad and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Igualdad

Setting

Landform: Coastal plains, flood plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Fine textured sediments over sands

Typical profile

H1 - 0 to 4 inches: clay
H2 - 4 to 24 inches: clay
H3 - 24 to 30 inches: sandy clay
H4 - 30 to 60 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 6 to 30 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Hydric soil rating: Yes

UI—Urban land

Map Unit Setting

National map unit symbol: 2yg1h

Frost-free period: 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Land Classifications

Land Classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Rating by Map Unit

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

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Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

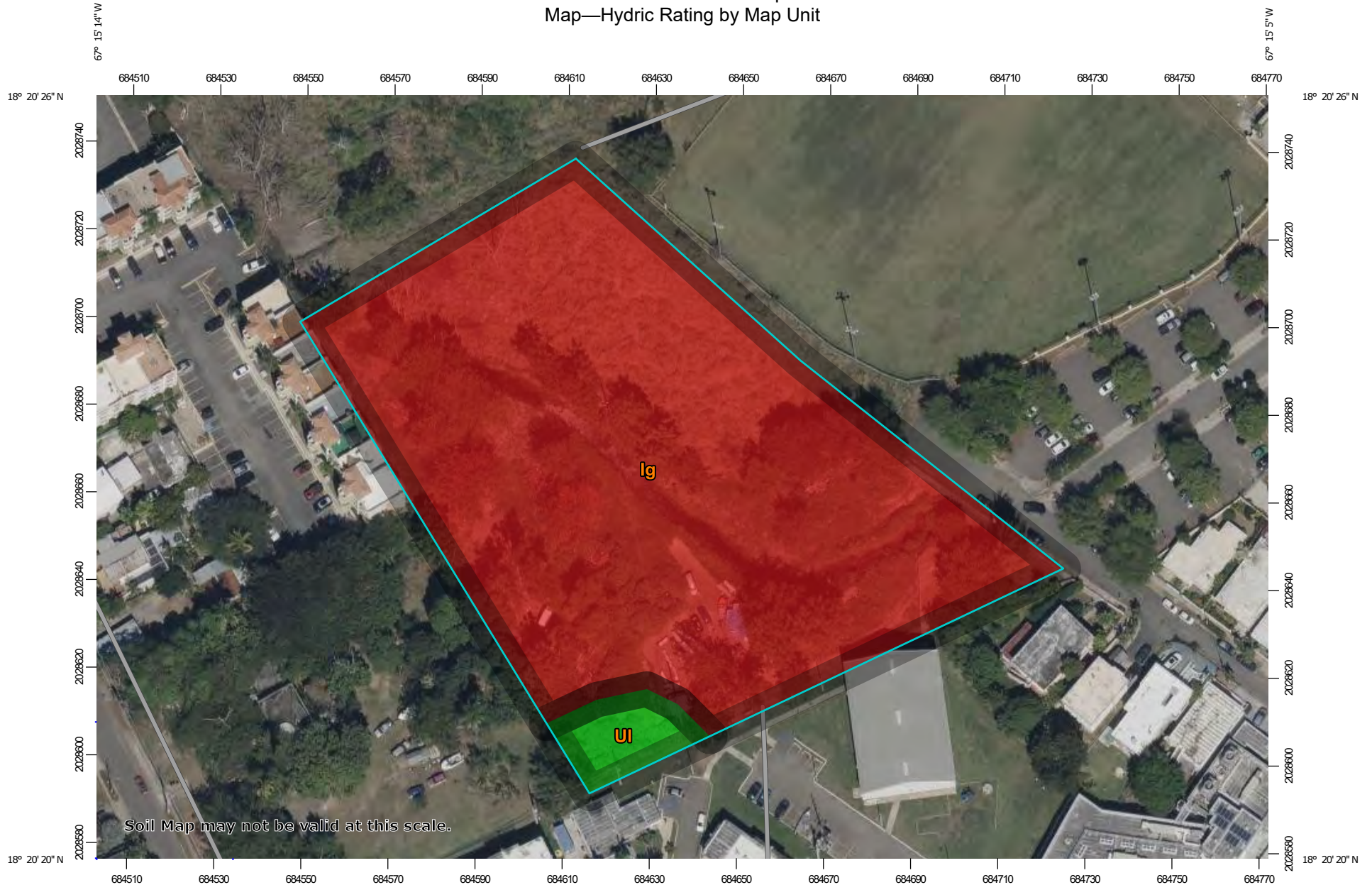
Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

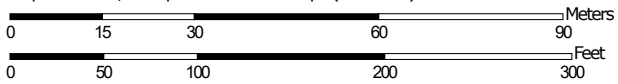
Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Custom Soil Resource Report Map—Hydric Rating by Map Unit




Map Scale: 1:1,230 if printed on A landscape (11" x 8.5") sheet.



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

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available

Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


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: Mayaguez Area, Puerto Rico Western Part
 Survey Area Data: Version 19, Sep 13, 2023

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.

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ig	Igualdad clay	100	3.0	96.0%
UI	Urban land	0	0.1	4.0%
Totals for Area of Interest			3.1	100.0%

Rating Options—Hydric Rating by Map Unit

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
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- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

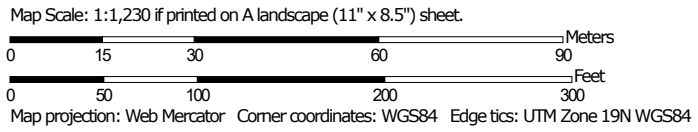
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United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

Hydric Rating by Map Unit—Mayaguez Area, Puerto Rico Western Part
(AOI - Ojo De Agua - Parking Lot Exstension)




Soil Map may not be valid at this scale.









MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available


Soil Rating Lines

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available






Soil Rating Points

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available


Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

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MAP INFORMATION

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 Web Soil Survey URL:
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Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ig	Igualdad clay	100	3.0	96.0%
UI	Urban land	0	0.1	4.0%
Totals for Area of Interest			3.1	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified







Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

ATTACHMENT 3
DATA FIELD FORMS

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/11/2024
	Elvin Roldan
Location	
	18.339753, -67.252704
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincon
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P1
------------------------	----

GEOGRAPHIC INFORMATION

Latitude:	18.339752,
Longitude	-67.252703
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes

VEGETATION

Tree Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Albizia lebeck	40	Yes	UPL
2.				
3.				
4.				
5.				

Sapling/ Shrub Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Ricinus communis L.	30	Yes	FACU
2.				
3.				
4.				
5.				

Herb Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Megathyrsus maximus (Jac.)	60	Yes	FACU
2.	Typha domingensis	40	Yes	OBL
3.				
4.				
5.				

Woody Vine Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.				
2.				
3.				
4.				
5.				

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	4	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.25	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	40	x	1	60
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	90	x	4	360
UPL	Species	40	x	5	200
Column Totals		170			620
Prevalence Index (B/A)				0.364	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	Yes
Dominance Test is >50%	No
Prevalence index is ≥ 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No

Hydrophytic Vegetation Present?	Yes
--	-----

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redox Features			
	Color Moist	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/1	100		M	Sandy	
8-16	10YR 3/1	100		M	Sandy	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains

²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	Yes
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

Organic material observed in first 6 in. of the horizon indicative of histosol.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	Yes	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	Yes	Depth (in.)	4
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

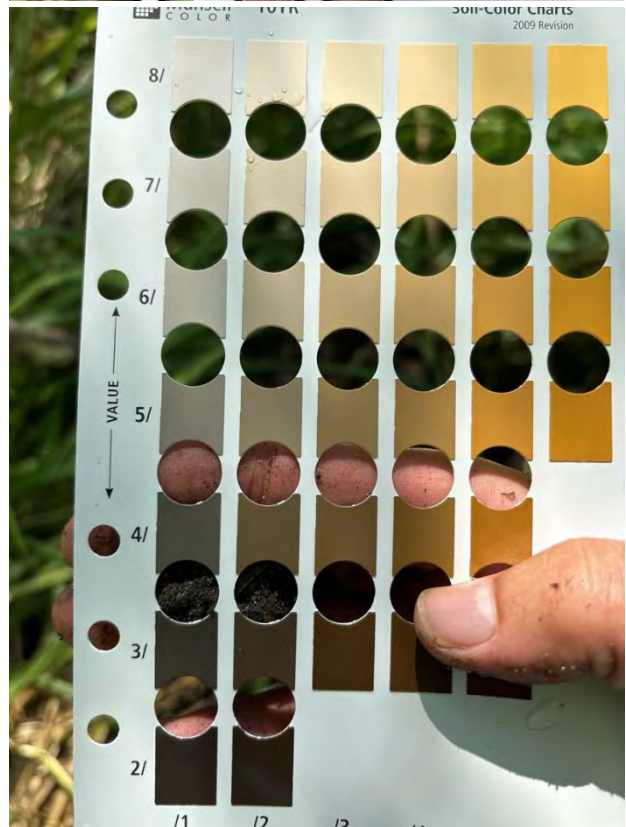
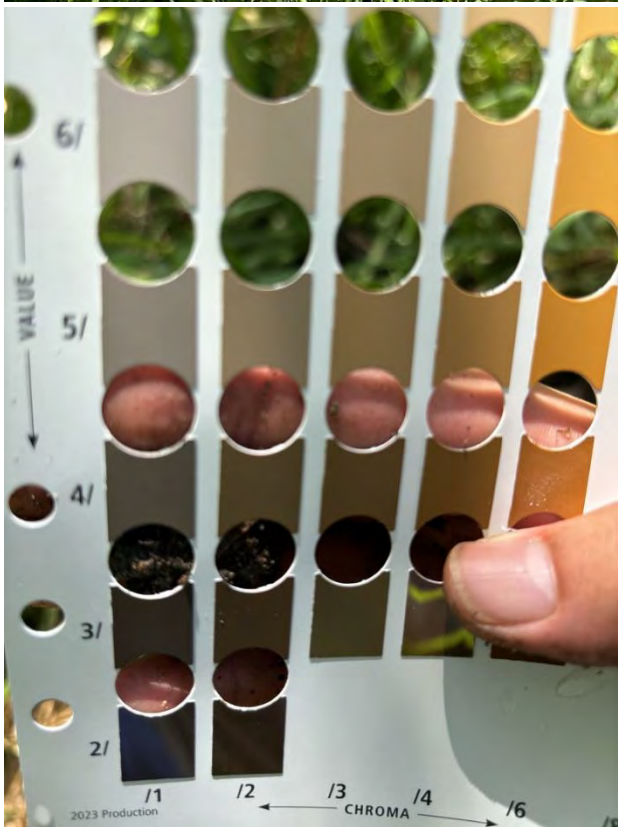
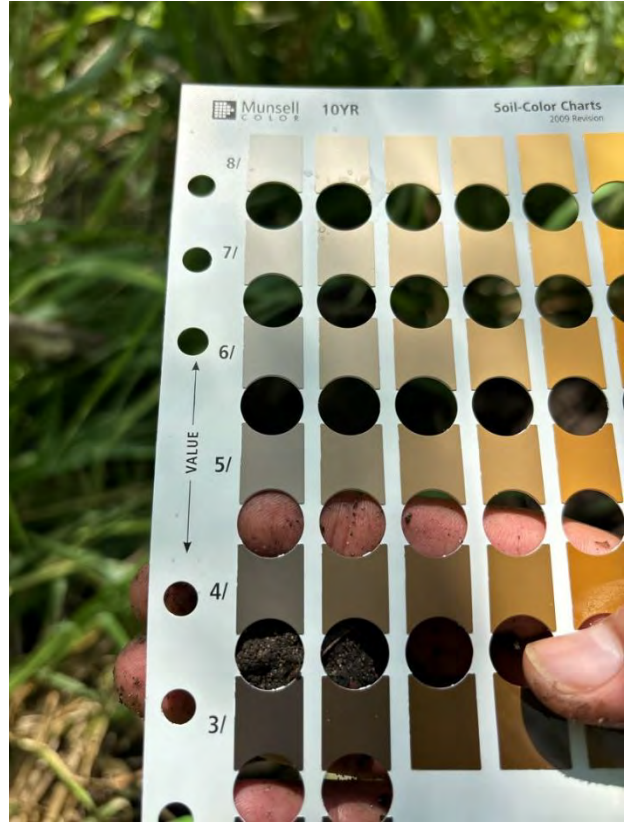
Remarks:

Surface water present at low point accumulated or ponding, no relative movement of water downstream.

NOTES

Additional Notes:











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Aguadilla, Puerto Rico 00603

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339753, -67.252704
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P2
------------------------	----

GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	No

VEGETATION

Tree Stratum	Plot Size	30
---------------------	------------------	----

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Terminalia catappa	20	Yes	FACU
2. Albizia lebeck	40	Yes	UPL
3.			
4.			
5.			

Sapling/ Shrub Stratum	Plot Size	15
-------------------------------	------------------	----

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Ricinus communis L.	20	Yes	FACU
2.			
3.			
4.			
5.			

Herb Stratum	Plot Size	5
---------------------	------------------	---

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Malvastrum coromandelium (L.)	60	Yes	FACU
2. Megathyrsus maximus (Jacq.)	30	Yes	FACU
3.			
4.			
5.			

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	5	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	0	x	1	0
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	130	x	4	520
UPL	Species	40	x	5	200
Column Totals		170		620	
Prevalence Index (B/A)				3.64	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	No
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No
Hydrophytic Vegetation Present?	No

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redux Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains
²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	No	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	No	Depth (in.)	
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

N/A

NOTES







Additional Notes:





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Aguadilla, Puerto Rico 00603

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339957, -67.253300
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P3
------------------------	----

GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	No

VEGETATION

Tree Stratum		Plot Size	30	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1. Terminalia catappa	80	Yes	FACU	
2.				
3.				
4.				
5.				

Sapling/ Shrub Stratum		Plot Size	15	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1.				
2.				
3.				
4.				
5.				

Herb Stratum		Plot Size	5	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1. Cenchrus echinatus	40	Yes	UPL	
2.				
3.				
4.				
5.				

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	0	x	1	0
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	80	x	4	320
UPL	Species	40	x	5	200
Column Totals		120		520	
Prevalence Index (B/A)				4.33	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	No
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No

Hydrophytic Vegetation Present?	No
--	----

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redux Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains
²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed. Observations for surface soil consistency and texture are consisted with sample taken on P1.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	No	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor (C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	No	Depth (in.)	
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

N/A

NOTES







Additional Notes:





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Aguadilla, Puerto Rico 00603

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339748, -67.252845
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P4
------------------------	----

GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes

VEGETATION

Tree Stratum | **Plot Size** | 30

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

Sapling/ Shrub Stratum | **Plot Size** | 15

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Ricinus communis L.	40	Yes	FACU
2.			
3.			
4.			
5.			

Herb Stratum | **Plot Size** | 5

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Cynodon nlemfuensis	80	Yes	UPL
2. Typha domingensis	20	Yes	OBL
3.			
4.			
5.			

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across Ali Strata:	3	(B)
Percent of Dominant Species That .Are OBL, FACW, or FAC:	0.33	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	20	x	1	20
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	40	x	4	160
UPL	Species	80	x	5	400
Column Totals		140			580
Prevalence Index (B/A)					4.14

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	Yes
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No

Hydrophytic Vegetation Present?	Yes
--	-----

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redox Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains

²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed. Observations for surface soil consistency and texture are consisted with sample taken on P1.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	Yes	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mal or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	Yes	Depth (in.)	4
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

Ponding water on what appears to be the slope of the rainwater canal can be observed with hydrophytic vegetation concentrated in this area. No clear transition of the upslope of the channel its visible.

NOTES

Additional Notes:



INDEX

A

A2 – Sub-Area A2, 6
AEG - Applied Engineering Group, 1

D

DBH - Diameter at Breast Height, 14
DNERC - Department of Natural Resources
and Conservation, 9

E

EFW - Emergent Freshwater Wetland, 4
EO - Executive Order, 8
EPA - United States Environmental Protection
Agency, 9

F

FAC - Facultative Plants, 11, 12
FACU - Facultative Upland Plants, 12
FACW - Facultative Wetland Plants, 11
FEMA - Federal Emergency Management
Agency, 14
ft - Feet, 14

G

GIS - Geographical Information Systems, 10
GPS - Global Positioning System, 10

I

Ig - Igualdad Clay, 11
in. - inches, 14

M

m - meters, 1
MOR - Municipality of Rincón, 1

N

NEPA - National Environmental Policy Act, 1
NRCS - Natural Resources Conservation
Service, 11
NWI - National Wetland Inventory, 4
NWPL - National Wetland Plant List, 11

O

OBL - Obligated Wetland Plants, 11

P

PP - Post Processing, 10
PPK - Post Processed, 15
PR - Puerto Rico, 9
PRDOH - Puerto Rico Department of Housing,
1
PRPB - Puerto Rico Planning Board, 9

S

SA1 - Sub Area 1, 6
sq m - Square meters, 1

U

UAS - Unmanned Aircraft System, 10
UPL - Upland Plants, 12
US - United States of America, 8
USCOE - United States Corps Of Engineers, 9
USDA - United States Department of
Agriculture, 11
USDH - US Department of Housing and
Urban Development, 1
USFWS - United States Fish and Wildlife
Service, 9
USGS - United States Geological Survey, 12
USVI - US Virgin Islands, 10

W

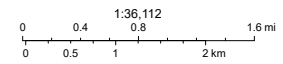
WSS - Web Soil Survey, 11

Explosive and Flammables Hazard Map



June 24, 2025

- Project Buffer
- Project 2
- Project 1



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Attachment 9: Explosive and Flammables Hazard

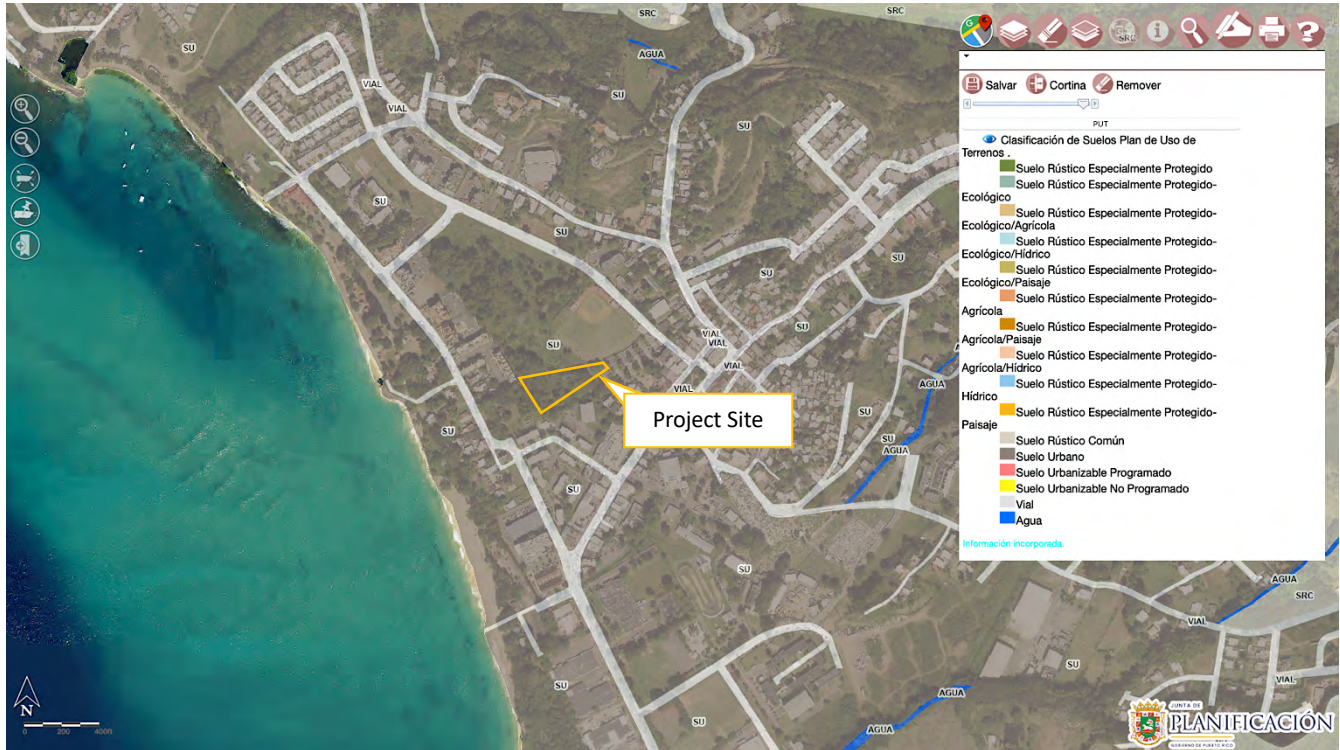
Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Google Earth®

Website: <https://earth.google.com/web/>

Author: Applied Engineering Group



Attachment 10A: Puerto Rico Planning Board's – Terrain Use Map (Plan de Uso de Terreno)

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Junta de Planificación (MIPR)

Website: <https://gis.jp.pr.gov/mipr/>

Author: Applied Engineering Group

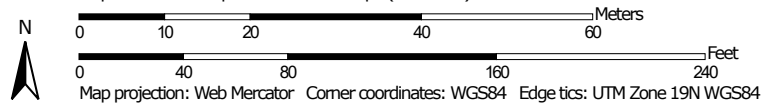
Attachment 10B USDA Web Soil Survey

Soil Map—Mayaguez Area, Puerto Rico Western Part



Soil Map may not be valid at this scale.

Map Scale: 1:883 if printed on A landscape (11" x 8.5") sheet.




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: Mayaguez Area, Puerto Rico Western Part

Survey Area Data: Version 19, Sep 13, 2023

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
Ig	Igualdad clay	1.8	95.9%
UI	Urban land	0.1	4.1%
Totals for Area of Interest		1.9	100.0%

National Flood Hazard Layer FIRMette



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, W, AS9
- 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 Water Surface Elevation
- 17.6 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

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 12/27/2023 at 8:26 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.

Attachment 11A: Floodplain Management FIRM

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: FEMA Flood Map Services Center

Website: <https://msc.fema.gov/portal/home>

Author: Applied Engineering Group

FEMA ABFE



6/25/2025, 1:57:05 PM

- Streamline (zoom in to make visible)
- Advisory Base Flood Elevation (zoom in to make visible)
- ▲ Limit of Moderate Wave Action (LIMWA)
- Flood Hazard Extent
- 1% Annual Chance Flood
- 0.2% Annual Chance Flood

- Zone/BFE Boundary
- Flood Hazard Area (zoom in to make visible)
- A
- AO
- AE
- Coastal A Zone
- VE
- 0.2% Annual Chance Flood Zone
- A-Floodway
- AE-Floodway
- Coastal A Zone and Floodway
- World Imagery

Low Resolution 15m Imagery
 High Resolution 60cm Imagery
 High Resolution 30cm Imagery
 Citations
 2.4m Resolution Metadata

0 0.07 0.15 0.3 mi
 0 0.13 0.25 0.5 km
 FEMA, Maxar

Attachment 11B: Floodplain Management ABFE

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: Mapa Niveles de Inundación Base Recomendados por: Junta Planificación

Website:

<https://fema.maps.arcgis.com/apps/webappviewer/index.html?id=31dfa15671944086b54b55bfc03344d7>

Author: Applied Engineering Group

Attachment 11C Eight (8) Step Process Documentation

**EXECUTIVE ORDERS 11988 AND
11990 – FLOODPLAIN MANAGEMENT & PROTECTION OF WETLANDS - 8-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**

Project: “Estacionamiento Urbano”, Municipality of Rincón, Puerto Rico

Project No. PR-CRP-000505

Decision Process for Executive Orders 11988 and 11990 as Provided by 24 CFR §55.20.

Step 1: Determine whether the action is in a 100-year and wetland.

The proposed project, PR-CRP-000505, Estacionamiento Urbano, consists of the construction of a parking lot that will include the preparation of the land to carry out the installation of asphalt pavement and concrete in all the required areas, creating sidewalks within the new parking lot and filling the subbases and bases. It includes the installation of bumper/wheel stop guards, the construction of approximately 66 parking units incorporating ADA compliant units and motorcycle parking units, and the creation of porous concrete pedestrian access ADA compliant entrances. In addition, it includes green initiatives such as the planting of native trees and the installation of solar lighting poles, construction of foundations for the support of the solar poles, the installation of signs for proper signage, construction of a storm drainage system, construction of an entrance to the parking lot, construction of a rest area (gazebo), installation of an emblem to observe the “Ojo de Agua” and installation of a perimeter fence. A security fence will be installed on the existing sidewalk in front of the “Ojo de Agua”. An existing tree (Ceiba) in the parking lot will be protected and demarcated. The proposed project, Estacionamiento Urbano, PR-CRP-000505, is located at Parque Street, Rincón, PR 00677; coordinates 18.33987, -67.25280.

The proposed project, with dimensions of 2.17 acres, is located in combined zones, 1.66 acres within a 500-year floodplain, and 0.51 acres outside the floodplain. The project site is located on FEMA’s Advisory Baseline Flood Elevations Map, revised 12/11/2018, <https://gis-r2-fema.hub.arcgis.com/>. The proposed project includes is a minor portion of 0.31 acres of emergent wetland as shown in the NWI Wetland Mapper 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 and the wetland along with concerns for loss of life or property; as applicable.

Step 2: Notify the public for early proposal review and involve the affected and interested people in decision-making.

A public notice was prepared and published on September 3rd, 2024, in the "Primera Hora" newspaper of Puerto Rico. The notice targeted local residents, including those in the floodplain and wetland. The notice was also sent to the following Federal, and State agencies: US Department of Housing and Urban Development, US Fish & Wildlife Service, Environmental Protection Agency, US Army Corps of Engineers, National Oceanic and Atmospheric Administration, Federal Emergency Management Agency, State Historic Preservation Office, Puerto Rico Planning Board, PR Department of Natural Resources & Environment and, Department of Economic Development and Commerce. 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, hence, no opposition to the proposed project was expressed. Attachment 2 includes a copy of the public notice.

Step 3: Identify and evaluate practicable alternatives.

The responsible entity has considered the following alternatives:

Alternative 1: Locate the project within the floodplain and wetland – The proposed action is according to zoning of the area. The project has been designed to minimize adverse impacts on the wetland and the floodplain. The project will enhance the well-being and safety of community residents and visitors, benefiting low- and moderate-income communities by providing additional parking spaces in the urban center of the municipality, improving site conditions and infrastructure, impacting positively public property, preventing further site deterioration, and by making the area more enjoyable for Rincón's residents and visitors. Additionally, it will have a positive economic impact by promoting tourism and benefit local commerce within the community. Since the People of Puerto Rico and the Municipality of Rincón own the project site, there will be no additional costs for land acquisition or ownership issues. Native trees will be incorporated into the design to complement the area's natural features and provide an aesthetically pleasing structure. Hence, the proposed project will enhance the floodplain and the wetland functions and values.

Alternative 2: Locate the Project Outside of the floodplain and the wetland - The responsible entity evaluated the alternative to locate this activity outside the floodplain and the wetland and this alternative is not suitable because the main

purpose of the project is to improve the conditions of the area to be used by the residents and visitors of the community. The main goal is to expand the existing parking lot to enhance the well-being and safety of residents and visitors in Rincón. This alternative would not address the need for additional parking spaces, or the benefits associated with improving the site, such as reducing adverse impacts on human health and public property, preventing site deterioration, and fostering economic growth through tourism in the urban center.

Alternative 3: No action taken. - If no action is taken, the proposed expansion will not proceed, and the new parking spaces will not be provided. The project goals, including increasing parking availability, improving resident and visitor safety, offering safer alternatives to low- and moderate-income communities, preventing further site deterioration, and generating economic benefits through tourism, will remain unmet.

Step 4: Identify Potential Direct and Indirect Impacts Associated with the Floodplain Development.

Alternative 1: Locate the Project Within the floodplain and the wetland. -The project at the proposed site will not negatively impact the floodplain and the wetland and will not have a significant impact on the actual runoff water behavior during weather events. The city of Rincón is a member of the National Flood Insurance Program. Potential adverse impacts from construction would be temporary and mitigated through construction staging plans developed in partnership with the Rincón 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. On the contrary, the proposed activity will help preserve the floodplain and the wetland functions and values like creating a pleasant urban revitalization, offer adequate and safe community access in accordance to building codes and regulations, preserve water quality, erosion control and flora & fauna habitat in the area. The proposed improvements will not have an effect on agricultural lands due to the nature of the activity. No recreational, educational, scientific, historic, and cultural values of the floodplain and the wetland will be adversely affected by the activity. The People of Puerto Rico and the Municipality of Rincón are the owners of the proposed project site. No additional cost due to land acquisition will be incurred nor will ownership issues needed to be solved.

Step 5: Mitigate Adverse Impacts

It is the responsible entity determination that there is no practicable alternative for locating the project outside the flood zone and wetland.

The highest priority of this review is to prevent the loss of life. No loss of life could be generated as part of the proposed actions. On the contrary, the proposed works would not only generate a positive impact to the floodplain and the

wetland in benefit of the people's life, but also would help to protect the financial investment of the contiguous business that actually serves the community. The proposed improvements will not have an effect on agricultural lands.

The site design chosen as an alternative at Step 3 minimize the floodplain and wetland impacts from occurring in the floodplain and the wetland considering provisions for draining. Best sediment and erosion control practices will be implemented during construction phases and the operation of the proposed activity to prevent sediment discharges and deposition. The design and construction consider that storm water discharges are directed accordingly in a way that cause the least possible obstruction to the flow of water, offer safety conditions, resist the effects of hydrodynamic and hydrostatic loads of flood waters and comply with any other provision of applicable law or regulation. Refer to Attachment 3 for proposed activity design drawings modified to integrate the recommendations of the United States Fish & Wild Services. The construction will have minimal effects on water resources. The increase in impermeable surfaces will not affect nearby wetlands or floodplain conditions. A stormwater pollution prevention plan (SWPPP) would be prepared, and its Best Management Practices (BMPs) would be implemented to avoid surface runoff, ponding, and sedimentation of receiving waterways during construction. Construction debris will be collated and disposed at a certified dump site or other authorized facility to manage wastes.

Step 6: Reevaluate the Alternatives.

Although the site is in a floodplain and minimum portion within an emergent wetland, the project has been adapted to minimize the floodplain and the wetland impact. No significant occupancy or modification of the floodplain and the wetland area will take place. The site design chosen to minimize the floodplain and wetland impacts from occurring in the floodplain and the wetland considered provisions for draining. To prevent sediment discharges and deposition, it will be employed best sediment and erosion control practices during construction phases and the operation of the proposed activity. The proposed improvements will provide longer useful life of the facilities so that it can continue to be used by citizens of Rincón and their visitors. The People of Puerto Rico and the Municipality of Rincón are the owners of the proposed project site. No additional cost due to land acquisition will be incurred nor will ownership issues need 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. Improve existing site's conditions, and infrastructure.
2. Increase the well-being and safety of community residents and visitors.

3. Have a positive impact on neighboring properties, as well as Rincón business core by helping to protect the financial investment of the contiguous business that actually serves the community.
4. Provide safer alternatives to low- and moderate-income communities surrounding the area.
5. Mitigate and minimize impacts on human health, public property, and the floodplain and the wetland values by using satisfactory design codes considering provisions for draining and best management practices during the construction activities.
6. Help to prevent further deterioration of the site and to improve traffic safety.
7. No historical environmental disparities will be increased due to the proposed activity.

If no action is taken, the proposed improvements will not be implemented, and the facilities will not be enhanced. The proposed use is in harmony with the surrounding developments in the area.

The municipality of Rincón 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 Rincón will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur no unnecessary risks are taken.

Step 7: Notify finding to the public and agencies.

A final notice published in the "Primera Hora" newspaper of Puerto Rico on May 16, 2025, targeted local residents, including those in the floodplain and the wetland. The final notice detailed the reasons why the proposed activity must be located in the floodplain and the wetland, 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 and wetland 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 by commentators, hence, no opposition to the project was expressed. Attachment 4 includes a copy of the public final notice and certification of comments received.

Step 8: Implement the proposed action.

The municipality of Rincón 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 Rincón will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur no unnecessary risks are taken.

Attachment 1

Maps



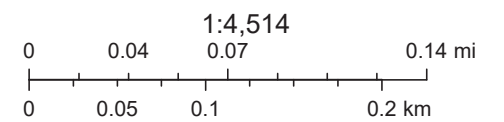
6/19/2024

 Parcelas

<https://sige.pr.gov/portal/apps/webappviewer/index.html?id=53ed4b9fa37840a88bb44d2a911512fc#>



Maxar



National Flood Hazard Layer FIRMMette



Legend Parque Street, Rincón, PR 00677

67°15'31"W 18°20'44"N

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

- 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

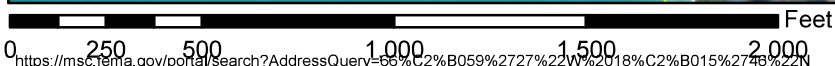
- Digital Data Available
- No Digital Data Available
- Unmapped

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 **5/17/2024 at 12:00 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.



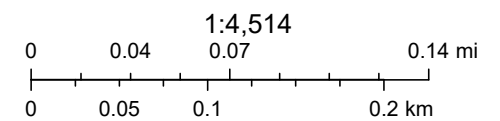
1:6,000

67°14'53"W 18°20'10"N

<https://msc.fema.gov/portal/search?AddressQuery=66%C2%B059%2727%22W%2018%C2%B015%2748%22N>



6/19/2024



PRPB; FEMA, Maxar



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

June 19, 2024

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Estuarine and Marine 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 FFRMS Floodplain



aviso público

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable designado por el Estándar de Gestión de Riesgo de Inundación Federal y humedal

**Estacionamiento Urbano
PR-CRP-000505**

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), número de subvención B-17-DM-72-0001, B-18-DP-72-0001 y B-19-DP-78-0002, está ubicado en un valle inundable designado por el Estándar de Gestión de Riesgo de Inundación Federal (FFRMS, por sus siglas en inglés) y humedal. Vivienda identificará y evaluará alternativas prácticas para realizar la acción propuesta dentro del valle inundable y humedal y los impactos potenciales en el valle inundable y humedal debido a la acción propuesta, según lo requerido por la Orden Ejecutiva 11988, enmendada por la Orden Ejecutiva 13690, y la Orden Ejecutiva 11990, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 Subparte C - Procedimientos para tomar determinaciones sobre el manejo de valles inundables y la protección de humedales. El proyecto propuesto, **PR-CRP-000505**, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en la calle Parque, Rincón, PR 00677, coordenadas 18.33987, -67.25280. La extensión del valle inundable del FFRMS y humedal se determinó utilizando Enfoque de Valor de Francobordo (FVA, por sus siglas en inglés). El proyecto consiste en la construcción de un estacionamiento que incluirá la preparación del terreno para realizar la instalación de pavimento asfáltico y hormigón en todas las zonas requeridas, creando aceras dentro del nuevo estacionamiento y rellenando las subbase y bases. Incluye la instalación de protectores de parachoques/topes de rueda, la construcción de aproximadamente 70 unidades de estacionamiento incorporando unidades en cumplimiento con ADA y unidades de estacionamiento para motocicleta, y la creación de acceso peatonales de concreto poroso en las entradas en cumplimiento con ADA. En adición incluye iniciativas verdes, como la plantación de árboles nativos y la instalación de postes de alumbrado solar, construcción de cimientos para el soporte de postes solares, la instalación de letreros para la señalización adecuada, construcción de un sistema de drenaje pluvial, construcción de una entrada al estacionamiento, construcción de una zona de descanso (gazebo), instalación de un emblema para observar el "Ojo de Agua" y la instalación de verja perimetral. Se instalará verja de seguridad en la acera existente frente al "Ojo de Agua". Se protegerá y delimitará un árbol (Ceiba) existente en el estacionamiento. El diseño del sitio propuesto reduce el impacto en el valle inundable y humedal emergente. El potencial impacto sobre el valle inundable y humedal emergente se limitará a las actividades de construcción. Los posibles impactos adversos de la construcción serían temporales y se mitigarían a través de planes de etapas de construcción para minimizar las perturbaciones durante todo el período de construcción y al final del proyecto. Ningún valor recreativo, educativo, científico, histórico y cultural del valle inundable y humedal emergente se verá potencialmente afectado negativamente por la actividad. La actividad propuesta con dimensiones de 2.17 acres está situada en zonas combinadas, 1.66 acres en un valle inundable de 500 años, zona de inundación X sombreada, y 0.51 acres fuera del valle inundable. La actividad propuesta 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 para Puerto Rico en **Puerto Rico Advisory Base Flood Elevations (ABFE's) | FEMA Region II Hub (arcgis.com)**. La actividad propuesta incluye una porción menor de 0.31 acres de humedal emergente. La porción del humedal emergente en el área del proyecto se encuentra en la página del Inventario Nacional de Humedales en <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en el valle inundable y humedal, 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 alternativas fuera del valle inundable y humedal, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos en el valle inundable y humedal. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información sobre los valles inundables y humedales 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 y humedal, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o continuo.

Los comentarios escritos deben ser recibidos por el Departamento de la Vivienda de Puerto Rico en la siguiente dirección antes **del 20 de septiembre de 2024**: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, y (787)274-2527 ext. 4320, Atención: William O. Rodríguez Rodríguez. Una descripción completa del proyecto puede ser revisada 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. Los comentarios también pueden enviarse por correo electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: **3 de septiembre de 2024**

Autorizado por la Oficina del Contralor Electoral OCE-SA-2023-00076



public notice

Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain and Wetland

**Estacionamiento Urbano
PR-CRP-000505**

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the City Revitalization Program, Community Development Block Grant - Disaster Recovery (CDBG-DR), Grant number B-17-DM-72-0001, B-18-DP-72-0001 & B-19-DP-78-0002, is located in a Federal Flood Risk Management Standard (FFRMS) floodplain and wetland. PRDOH will be identifying and evaluating practicable alternatives to locating the action within the floodplain and wetland and the potential impacts on the floodplain and wetland from the proposed action, as required by Executive Order 11988, as amended by Executive Order 13690, and Executive Order 11990, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, **PR-CRP-000505**, is within a municipality with structures damaged by Hurricanes Irma and María, and it's located at Parque Street, Rincón, PR 00677, coordinates 18.33987, -67.25280. The extent of the FFRMS floodplain and wetland was determined using the freeboard value approach (FVA). The project consists of the construction of a parking lot that will include the preparation of the land to carry out the installation of asphalt pavement and concrete in all the required areas, creating sidewalks within the new parking lot and filling the subbases and bases. It includes the installation of bumper/wheel stop guards, the construction of approximately 70 parking units incorporating ADA compliant units and motorcycle parking units, and the creation of porous concrete pedestrian access ADA compliant entrances. In addition, it includes green initiatives such as the planting of native trees and the installation of solar lighting poles, construction of foundations for the support of the solar poles, the installation of signs for proper signage, construction of a storm drainage system, construction of an entrance to the parking lot, construction of a rest area (gazebo), installation of an emblem to observe the "Ojo de Agua" and installation of a perimeter fence. A security fence will be installed on the existing sidewalk in front of the "Ojo de Agua". An existing tree (Ceiba) in the parking lot will be protected and demarcated. The proposed site design reduces impact to the floodplain and the emergent wetland. Potential impacts to the floodplain and the emergent wetland will be limited to construction activities. Potential adverse impacts from construction would be temporary and mitigated through construction staging plans to minimize disturbance throughout the construction period and at the end of the project. No recreational, educational, scientific, historic, and cultural values of the floodplain and wetland will be potentially adversely affected by the activity. The proposed activity with dimensions of 2.17 acres is situated in combined zones, 1.66 acres in a 500-year floodplain, flood zone X shaded and 0.51 acres outside the floodplain. 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 proposed activity includes a minor portion of 0.31 acres of emergent wetland. The minor portion of the emergent wetland in the project area can be found in the National Wetlands Inventory at <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and 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. Commenters are encouraged to offer alternative sites outside of the floodplain and wetland, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts on the floodplain and wetland. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about floodplains and wetlands 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 and wetland, it must inform those who may be put at greater or continued risk.



Written comments must be received by PRDOH at the following address on or before **September 20, 2024**: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, and (787)274-2527 ext. 4320, Attention: William O. Rodríguez Rodríguez. A full description of the project may also be reviewed 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. Comments may also be submitted via email at environmentcdbg@vivienda.pr.gov.

Date: **September 3, 2024**

Autorizado por la Oficina del Electoral Comptroller OCE-SA-2023-00076

RosaRamos, Sol

From: Michelle Puig <michelle.e.puig@gmail.com>
Sent: Tuesday, September 3, 2024 11:27 AM
To: Jose.A.CedenoMaldonado@hud.gov; donna.m.mahon@hud.gov; Caribbean_es@fws.gov; robert_tawes@fws.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMAR4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; Rivera_r1@jp.pr.gov; comentarios@jp.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov; environmentcdbg@vivienda.pr.gov
Cc: BousonoCardona, Carlos; RosaRamos, Sol; korsini@rincon.gov.pr; Dalbert Rivera
Subject: PR-CRP-000505: Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain and Wetland
Attachments: 3.9.24 Aviso.pdf

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Concerned agencies,

*Enclosed please find a **Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain and Wetland**, the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the 8-Step Decision Making Process to undertake for the project Estacionamiento Urbano (PR-CRP-000505). The Notice was published in the Primera Hora newspaper of Puerto Rico on September 3, 2024.*

Michelle E. Puig

From: [Kenneth M. Garcia-De Leon](#)
To: [environmentcdbg](#)
Subject: RE: Comentarios - Aviso Preliminar PR-CRP-000505
Date: Tuesday, September 24, 2024 2:43:18 PM
Attachments: [image002.png](#)
[image003.png](#)

Saludos:

Por correo postal no llegaron comentarios para mencionado proyecto.

Cordialmente,

Kenneth M. García De León

Especialista en Control de Documentos / Operaciones

Oficina Recuperación de Desastres

kgarcia@vivienda.pr.gov | [787.274.2527](tel:787.274.2527) Ext. 4013

Visítanos: recuperacion.pr.gov

Contactanos: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA
VIVIENDA



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From: environmentcdbg <environmentcdbg@vivienda.pr.gov>

Sent: Tuesday, September 24, 2024 2:40 PM

To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>

Subject: Comentarios - Aviso Preliminar PR-CRP-000505

Saludos Kenneth,

Con respecto a la publicación del Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un valle inundable designado por el Estándar de Gestión de Riesgo de Inundación Federal y humedal (Paso 2) para el proyecto **Estacionamiento Urbano (PR-CRP-000505)**, ¿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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VIVIENDA



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Validation Letter

September 24, 2024

To whom it may concern,

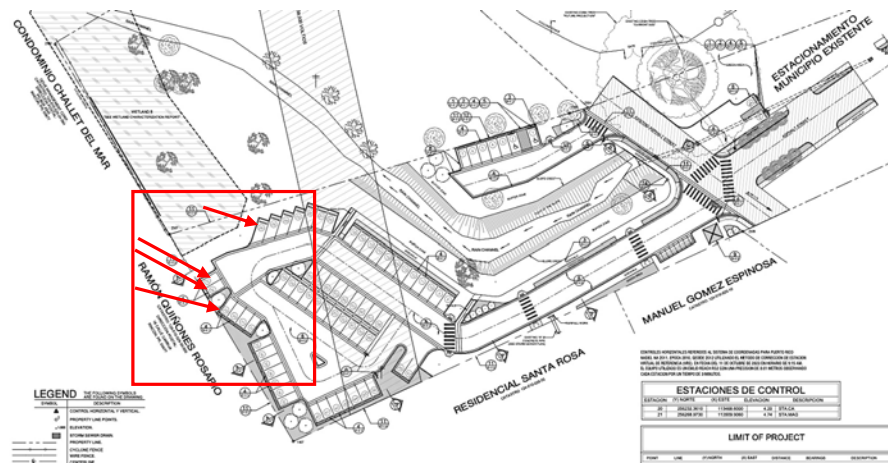
This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Estacionamiento Urbano (PR-CRP-000505)*, as part of the CDBG-DR City Revitalization Program. The Early Notice and Public Review of a Proposed Activity in a Federal Flood Risk Management Standard Designated Floodplain and Wetland was published in the *Primera Hora* newspaper of Puerto Rico on September 3, 2024, with a comment period that concluded on September 20, 2024.

Cordially,

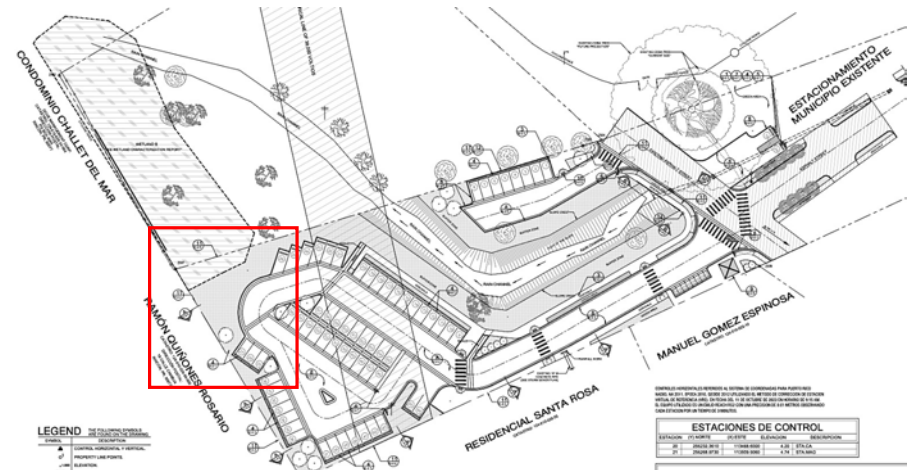
Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachment 3
100% Design Drawings

Propuesta anterior



Propuesta revisada (elimina cuatro estacionamientos)

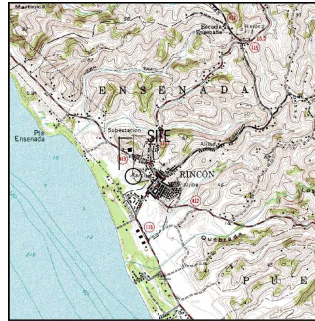


DESIGNER:



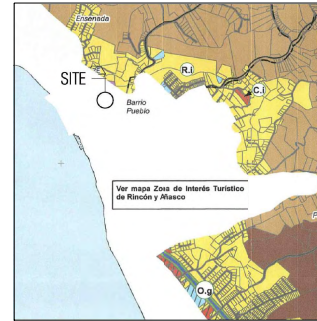
APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

10 St. Montecarlo Avenue #866 Río Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: 787 - 771-5071 / 787 - 771-5069 / Fax: 787 - 771 - 5070 AEG@aegroup-pr.com

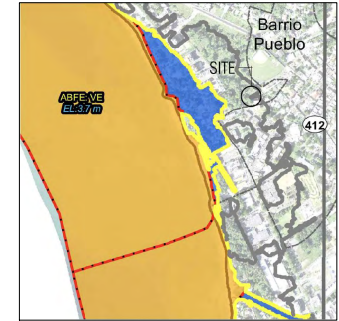


LOCATION SCALE: 1: 20,000

LAMBERT COORDINATES
X=113,402.1842
Y=256,239.9921
COORDINATES SYSTEM NAD-83



ZONING
SCALE: 1: 2,000



FEDERAL INSURANCE RATE MAP (F.I.R.M.)
SCALE: 1: 2,000

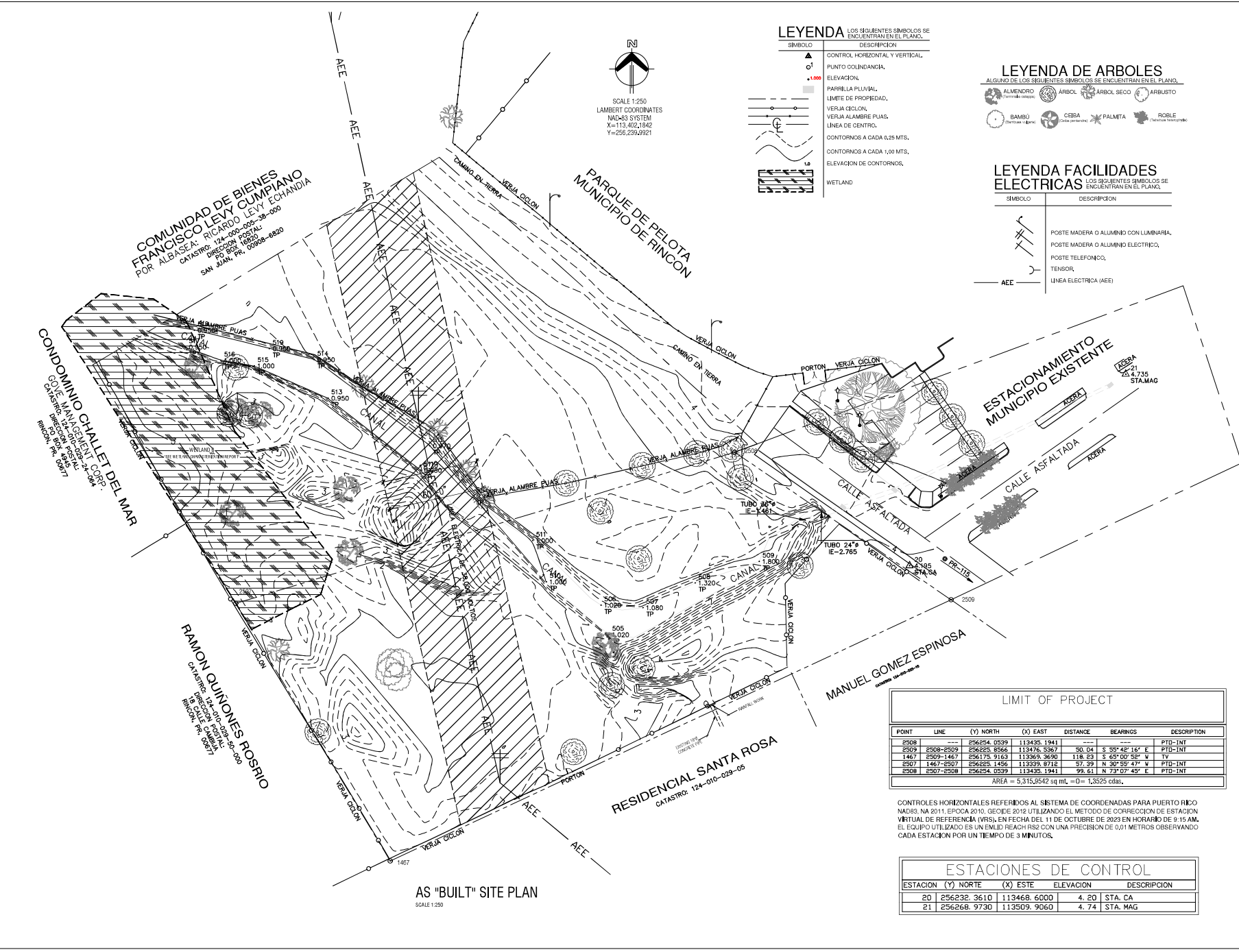
CONSTRUCTION DRAWINGS FOR ESTACIONAMIENTO CENTRO URBANO RINCÓN

LOCATED AT ENSENADA WARD STATE ROAD P.R. 413 KM. 0.7 FROM MUNICIPALITY OF
RINCÓN, PUERTO RICO. PR-CRP-000505

DRAWING INDEX

CONSTRUCTION PLANS INDEX OF SHEETS

DWG. NO.	TITLE OF SHEET	SHEET NO.
TI-1.0	TITLE SHEET & LOCATION MAPS	1
ASB-1.0	AS 'BUILT' SITE PLAN	2
DM-1.0	DEMOLITION SITE PLAN	3
SI-1.0	PROPOSED SITE PLAN	4
SI-1.1	PROPOSED GEOMETRY SITE PLAN	5
SI-2.0	TYPICAL SITE DETAILS	6
SI-2.1	TYPICAL SITE DETAILS	7
SI-2.2	TYPICAL SITE DETAILS	8
SI-2.3	TYPICAL SITE DETAILS	9
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SI-3.0	PROPOSED GRADING SITE PLAN	11
SI-4.0	LONGITUDINAL & TRANSVERSAL PROFILES	12
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SD-2.0	STORM SEWER PROFILES	14
SD-3.0	STORM SEWER TYPICAL DETAILS	15
E-1.0	PROPOSED LIGHTING SITE PLAN	16



N
 SCALE 1:250
 LAMBERT COORDINATES
 NAD-83 SYSTEM
 X=113,402.1842
 Y=256,239.921

LEYENDA LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
	CONTROL HORIZONTAL Y VERTICAL.
	PUNTO COLINEARIDAD.
	ELEVACION.
	PARRILLA PLUVIAL.
	LMITE DE PROPIEDAD.
	VERJA CICLON.
	VERJA ALAMBRE PUAS.
	LINEA DE CENTRO.
	CONTORNOS A CADA 0.25 MTS.
	CONTORNOS A CADA 1.00 MTS.
	ELEVACION DE CONTORNOS.
	WETLAND

LEYENDA DE ARBOLES
ALGUNO DE LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

	ALMENDRO
	ARBOL
	ARBOL SECO
	ARBUSTO
	BAMBU
	CEBA
	PALMITA
	ROBLE

LEYENDA FACILIDADES ELECTRICAS
LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
	POSTE MADERA O ALUMINIO CON LUMINARIA.
	POSTE MADERA O ALUMINIO ELECTRICO.
	POSTE TELEFONICO.
	SENSOR.
	LINEA ELECTRICA (AEE)

LIMIT OF PROJECT

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
2508	—	256254.0539	113435.1941	—	—	PTD-INT
2509	2508-2509	256225.8566	113476.3327	30.04	S 95°42'16" E	PTD-INT
1467	2509-1467	256175.9163	113369.3690	118.23	S 65°00'58" W	TV
2507	1467-2507	256225.1456	113339.9712	57.39	N 30°59'47" W	PTD-INT
2508	2507-2508	256254.0539	113435.1941	99.61	N 73°07'45" E	PTD-INT

AREA = 5,315,9542 sq. m. = 1,3325 cabas.

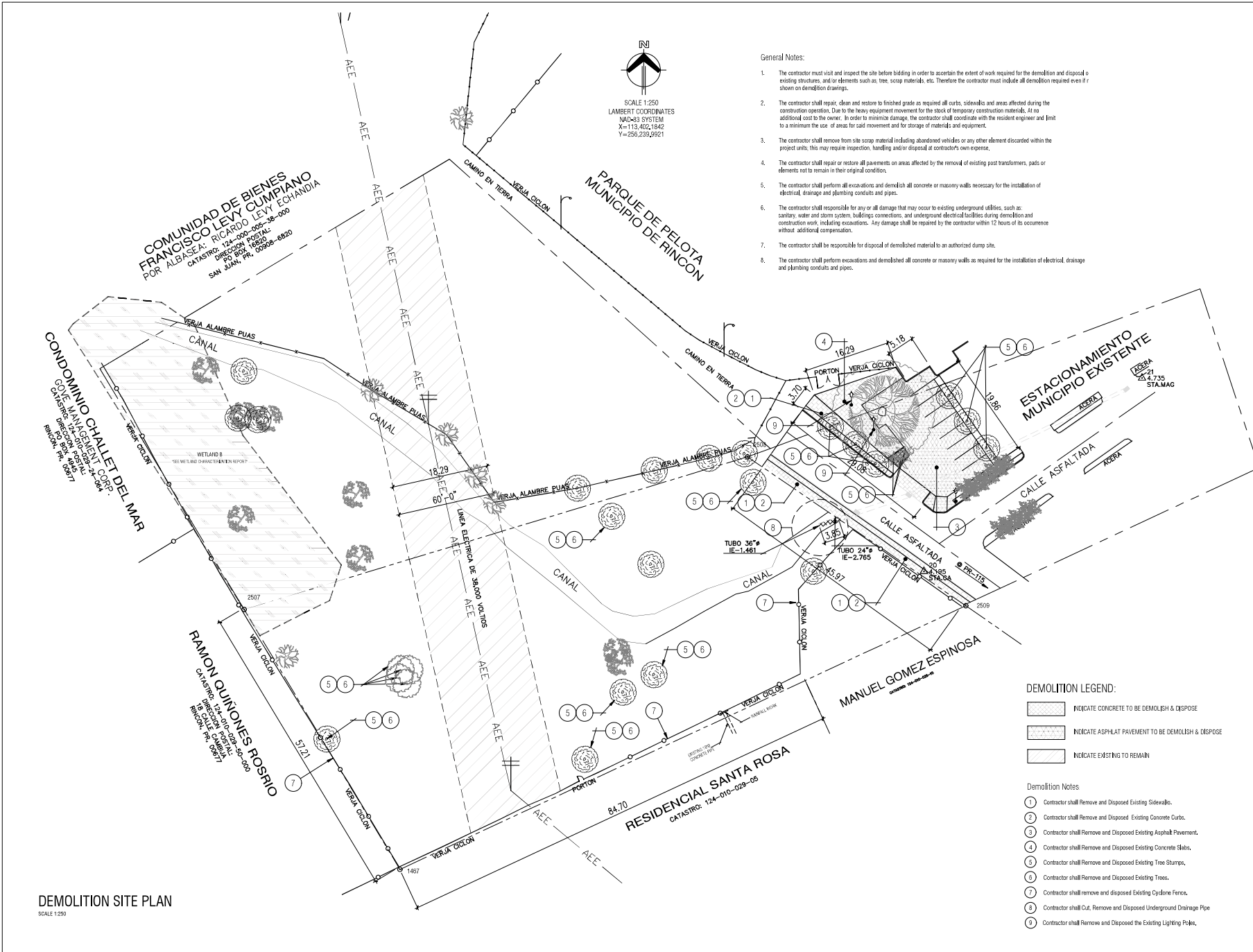
CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS PARA PUERTO RICO NAD83, NA 2011, EPOCA 2010, GEOIDE 2012 UTILIZANDO EL METODO DE CORRECCION DE ESTACION VIRTUAL DE REFERENCIA (VRS), EN FECHA DEL 11 DE OCTUBRE DE 2023 EN HORARIO DE 9:15 AM. EL EQUIPO UTILIZADO ES UN EMLID REACH RS2 CON UNA PRECISION DE 0.01 METROS OBSERVANDO CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES DE CONTROL

ESTACION	(Y) NORTE	(X) ESTE	ELEVACION	DESCRIPCION
20	256232.3610	113468.6000	4.20	STA. CA
21	256268.9730	113509.9060	4.74	STA. MAG

AS "BUILT" SITE PLAN
 SCALE 1:250

APPLIED ENGINEERING GROUP
 CONSULTANT
 DESIGN
 REVISIONS
 DATE
 BY
 CHECKED
 APPROVED
 PROJECT: PUBLIC PARKING LOT PROJECT
 LOCATED AT STATE ROAD P.R. 413, KM. 0.7 IN RINCON, THE ENCLAVE WARD, FROM MUNICIPALITY OF RINCON, PUERTO RICO.
 SHEET TITLE: AS "BUILT" SITE PLAN
 SHEET NO. 16 OF 16
 ASB-1.0



SCALE 1:250
 LAMBERT COORDINATES
 NAD83 SYSTEM
 X=113,402,1842
 Y=256,239,0921

- General Notes:
- The contractor must visit and inspect the site before bidding in order to ascertain the extent of work required for the demolition and disposal of existing structures, and/or elements such as, tree, scrap materials, etc. Therefore the contractor must include all demolition required even if it shown on demolition drawings.
 - The contractor shall repair, clean and restore to finished grade as required all curbs, sidewalks and areas affected during the construction operation. Due to the heavy equipment movement for the stock of temporary construction materials. At no additional cost to the owner. In order to minimize damage, the contractor shall coordinate with the resident engineer and limit to a minimum the use of areas for said movement and for storage of materials and equipment.
 - The contractor shall remove from site scrap material including abandoned vehicles or any other element discarded within the project units; this may require inspection, handling and/or disposal at contractor's own expense.
 - The contractor shall repair or restore all pavements on areas affected by the removal of existing post transformers, pads or elements not to remain in their original condition.
 - The contractor shall perform all excavations and demolish all concrete or masonry walls necessary for the installation of electrical, drainage and plumbing conduits and pipes.
 - The contractor shall be responsible for any or all damage that may occur to existing underground utilities, such as: sanitary, water and storm system, buildings connections, and underground electrical facilities during demolition and construction work, including excavations. Any damage shall be repaired by the contractor within 12 hours of its occurrence without additional compensation.
 - The contractor shall be responsible for disposal of demolished material to an authorized dump site.
 - The contractor shall perform excavations and demolish all concrete or masonry walls as required for the installation of electrical, drainage and plumbing conduits and pipes.

DEMOLITION LEGEND:

- INDICATE CONCRETE TO BE DEMOLISH & DISPOSE
- INDICATE ASPHALT PAVEMENT TO BE DEMOLISH & DISPOSE
- INDICATE EXISTING TO REMAIN

- Demolition Notes**
- Contractor shall Remove and Disposed Existing Sidewalks.
 - Contractor shall Remove and Disposed Existing Concrete Curbs.
 - Contractor shall Remove and Disposed Existing Asphalt Pavement.
 - Contractor shall Remove and Disposed Existing Concrete Slabs.
 - Contractor shall Remove and Disposed Existing Tree Stumps.
 - Contractor shall Remove and Disposed Existing Trees.
 - Contractor shall remove and disposed Existing Cyclone Fence.
 - Contractor shall O&M, Remove and Disposed Underground Drainage Pipe
 - Contractor shall Remove and Disposed the Existing Lighting Poles,

APPLIED ENGINEERING GROUP
 1325 MARQUETTE - SUITE 1000 - RINCON, PUERTO RICO 00982
 TEL: 787-833-7777 FAX: 787-833-7778
 WWW.AEGRP.COM

NO.	REVISIONS

NOTA: Este plano de demolición se basa en los planos de ingeniería de campo y en los datos suministrados por el propietario. El contratista se reserva el derecho de verificar en el terreno la existencia de estructuras, tuberías y servicios que no estén reflejados en los planos. El contratista se responsabiliza de verificar la existencia de estructuras, tuberías y servicios que no estén reflejados en los planos. El contratista se responsabiliza de verificar la existencia de estructuras, tuberías y servicios que no estén reflejados en los planos. El contratista se responsabiliza de verificar la existencia de estructuras, tuberías y servicios que no estén reflejados en los planos.

DEMOLITION SITE PLAN
 PUBLIC PARKING LOT PROJECT
 LOCATED AT STATE ROAD P.R. 433, KM. 0.7 IN RINCON IN THE BARRANCA WARD
 FROM MUNICIPALITY OF RINCON, PUERTO RICO.

DM-1.0

DEMOLITION SITE PLAN
 SCALE 1:250

COMUNIDAD DE BIENES
FRANCISCO LEVY CUMPIANO
PO BOX 8888 RINCÓN, P.R. 00982
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL

PARQUE DE PELOTA
MUNICIPIO DE RINCÓN

CONDOMINIO CHALET DEL MAR
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL

RAMÓN QUIJONES ROSARIO
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL
CARRILLO, INGENIERO CIVIL

RESIDENCIAL SANTA ROSA
CATASTRO: 124-010-029-05

MANUEL GOMEZ ESPINOSA
CATASTRO: 124-010-005-10

ESTACIONAMIENTO
MUNICIPIO EXISTENTE

LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
▲	CONTROL HORIZONTAL Y VERTICAL.
○	PROPERTY LINE POINTS.
1,000	ELEVATION.
—	STORM SEWER DRAIN.
—	PROPERTY LINE.
—	CYCLONE FENCE.
—	WIRE FENCE.
—	CENTERLINE.
—	CONTOUR LINE EVERY 0.25 MTS.
—	CONTOUR LINE EVERY 1.00 MTS.
—	CONTOUR ELEVATION.

CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS PARA PUERTO RICO NAD83, NA 2011, EPOCA 2010, GEODE 2012 UTILIZANDO EL METODO DE CORRECCION DE ESTACION VIRTUAL DE REFERENCIA (VRS), EN FECHA DEL 11 DE OCTUBRE DE 2023 EN HORARIO DE 9:15 AM. EL EQUIPO UTILIZADO ES UN EMULADOR ROSS CON UNA PRECISION DE 0.01 METROS OBSERVANDO CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES DE CONTROL

ESTACION	(Y) NORTE	(X) ESTE	ELEVACION	DESCRIPCION
20	256232,3610	113468,6000	4,20	STA_CA
21	256268,9730	113509,9060	4,74	STA_MAG

LIMIT OF PROJECT

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
2508	—	256254,2638	113495,3841	—	—	PTO-INT
2509	2508-2509	256252,8598	113478,5387	50.04	S 55° 42' 18" E	PTO-INT
1467	2509-1467	256175,9163	113369,3690	118.23	S 65° 00' 52" W	TV
2507	1467-2507	256225,1458	113339,8712	57.39	N 30° 55' 47" W	PTO-INT
2508	2507-2508	256254,2638	113495,3841	99.81	N 73° 37' 45" E	PTO-INT

AREA = 5,315,9542 sq mt. = 0 = 1,3525 cdas.



REVISIONS

NO.	DATE	DESCRIPTION

PROPOSED SITE PLAN
PUBLIC PARKING LOT PROJECT
LOCATED AT THE INTERSECTION OF BOULEVARD WARD
FROM MUNICIPALITY OF RINCÓN, PUERTO RICO.

PROJECT: PUBLIC PARKING LOT PROJECT
LOCATION: AT THE INTERSECTION OF BOULEVARD WARD
FROM MUNICIPALITY OF RINCÓN, PUERTO RICO.

COMUNIDAD DE BIENES FRANCISCO LEVY CUMPIANO
 POF ALBARRAN FRANCISCO LEVY CUMPIANO
 CATASTRO: 124-010-029-030
 DIRECCION: CAROLINA
 RIVIERA, P.R. 00977

PARQUE DE PELOTA MUNICIPIO DE RINCÓN

CONDominio CHALET DEL MAR
 CATASTRO: 124-010-029-030
 DIRECCION: CAROLINA
 RIVIERA, P.R. 00977

RAMÓN QUIJONES ROSARIO
 CATASTRO: 124-010-029-030
 DIRECCION: CAROLINA
 RIVIERA, P.R. 00977

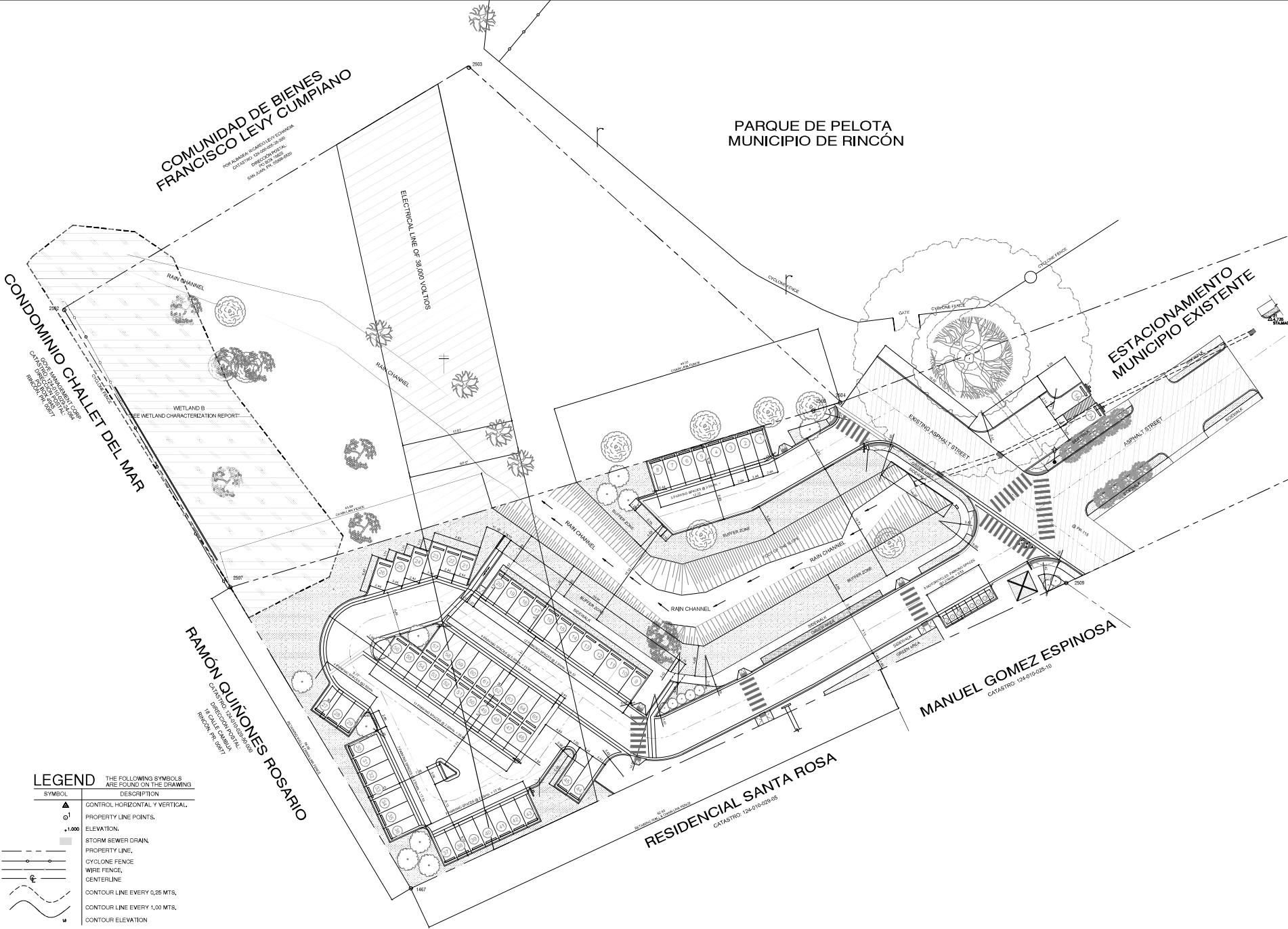
MANUEL GOMEZ ESPINOSA
 CATASTRO: 124-010-029-030

RESIDENCIAL SANTA ROSA
 CATASTRO: 124-010-029-030

ESTACIONAMIENTO MUNICIPIO EXISTENTE

LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
	CONTROL HORIZONTAL Y VERTICAL
	PROPERTY LINE POINTS, ELEVATION.
	STORM SEWER DRAIN
	PROPERTY LINE
	CYCLONE FENCE
	WIRE FENCE
	CENTERLINE
	CONTOUR LINE EVERY 0,25 MTS.
	CONTOUR LINE EVERY 1,00 MTS.
	CONTOUR ELEVATION



APPLIED ENGINEERING GROUP
 1021 Avenida...
 RIVIERA, P.R. 00977

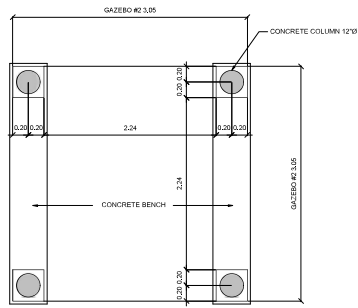
REVISIONS

NO.	DATE	DESCRIPTION

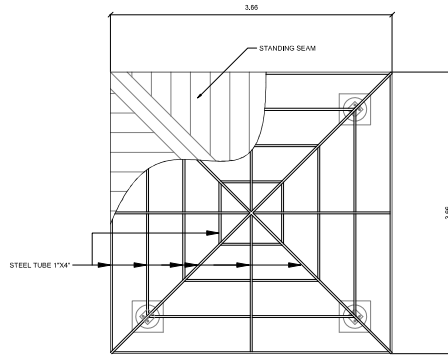
NOTA: Yo, Ing. JUAN ALBERTO...
 con este documento...
 para el Municipio de Rincón...

PROPOSED GEOMETRY SITE PLAN
 PUBLIC PARKING LOT PROJECT
 LOCATED AT THE INTERSECTION OF BUBBOLA WARD
 FROM MUNICIPALITY OF RINCÓN, PUERTO RICO.

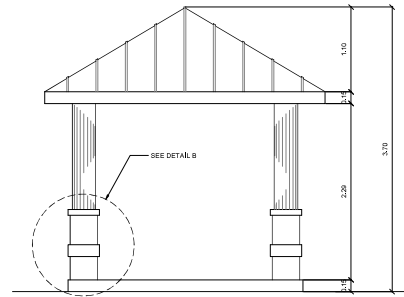
Sheet No. SF-1.1



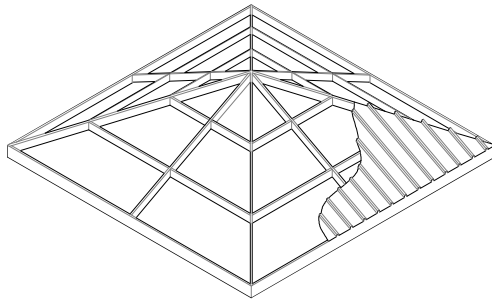
ARCHITECTURAL PLAN



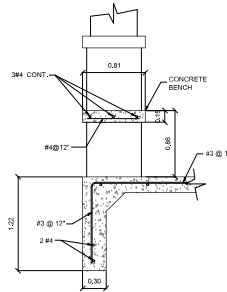
ROOF FRAME PLAN



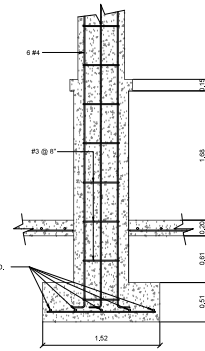
ELEVATION



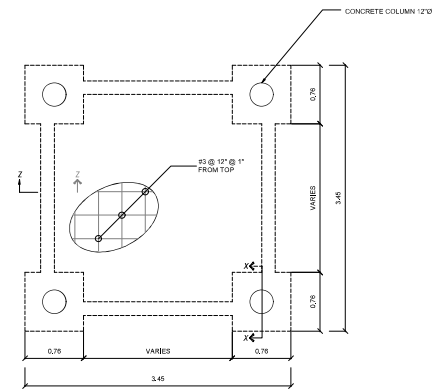
ISOMETRIC ROOF



SECTION Z-Z

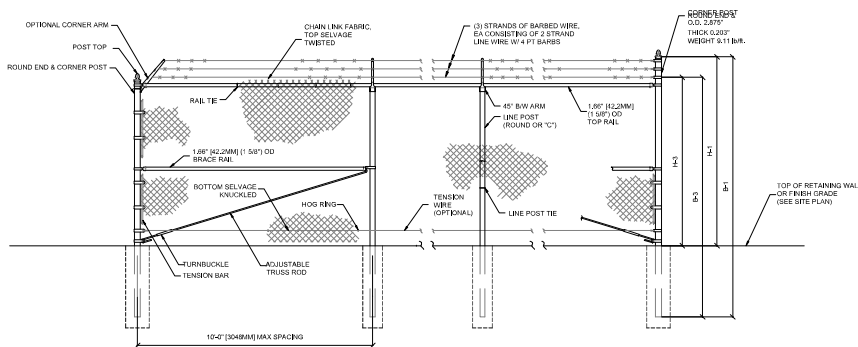


SECTION X-X
DETAIL B

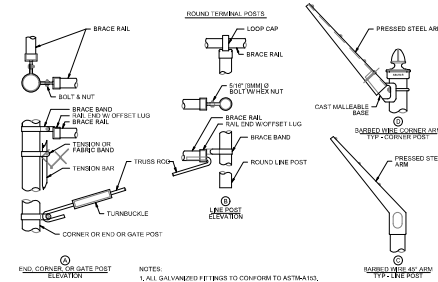


FOUNDATION

TYPICAL GAZEBO
SCALE: 1:30



TYPICAL HIGH FENCE WITH BARBED WIRE
SCALE: 1:30



NOTES:
1. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.

FENCE HEIGHT	UPRIGHT END & CORNER POSTS		LINE POSTS		CORNER POSTS WITH CORNER ARM	
	NOM HT INCLUDING BARBED WIRE	BAR LENGTH	H-1 HEIGHT ABOVE GRADE	H-2 HEIGHT ABOVE GRADE	H-3 HEIGHT ABOVE GRADE	H-4 HEIGHT ABOVE GRADE
9'-0"	12'-0"	7'-5-7/8"	10'-6"	7'-5-7/8"	11'-0"	8'-4-5/8"

DESIGN	DATE
REVISIONS	

NOTES:
1. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 2. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 3. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 4. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 5. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 6. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 7. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 8. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 9. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.
 10. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM A153.

COMUNIDAD DE BIENES
FRANCISCO LEVY CUMPIANO

POPE BLANCA, MUNICIPIO LEYDOROSA
CANTÓN LEYDOROSA
PROVINCIA GUAYAS
CALLE CALLES 1000
TEL: 099 960 1000

PARQUE DE PELOTA
MUNICIPIO DE RINCÓN

CONDOMINIO CHALET DEL MAR

CALLE CALLES 1000
TEL: 099 960 1000

RAMÓN QUIJONES ROSARIO

CALLE CALLES 1000
TEL: 099 960 1000

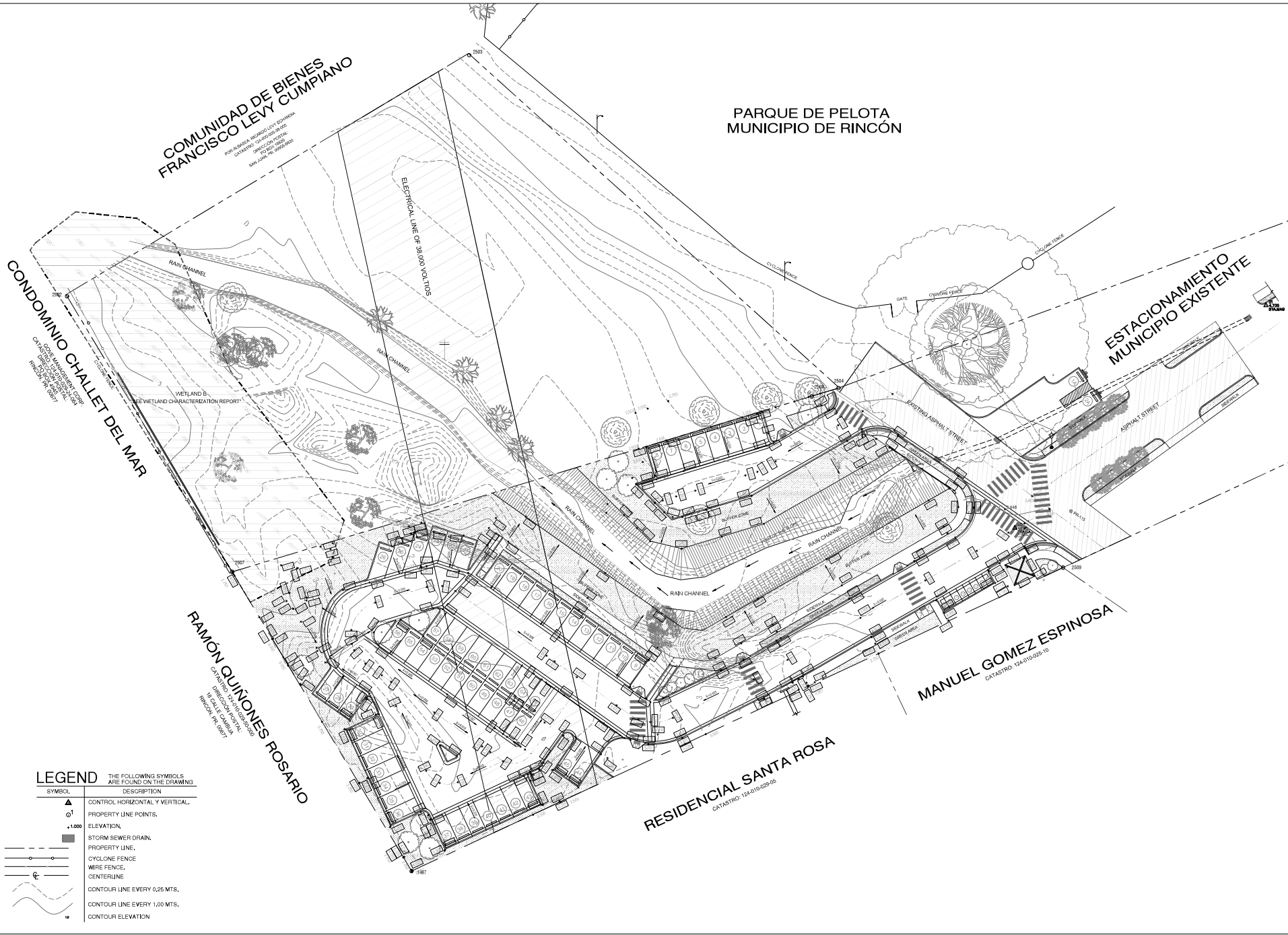
RESIDENCIAL SANTA ROSA

CANTÓN: 124-010-025-05

MANUEL GOMEZ ESPINOSA

CANTÓN: 124-010-025-10

ESTACIONAMIENTO
MUNICIPIO EXISTENTE



LEGEND THE FOLLOWING SYMBOLS ARE FOUND ON THE DRAWING

SYMBOL	DESCRIPTION
▲	CONTROL HORIZONTAL Y VERTICAL.
○	PROPERTY LINE POINTS.
1,000	ELEVATION.
—	STORM SEWER DRAIN.
—	PROPERTY LINE.
—	CYCLONE FENCE
—	WIRE FENCE.
—	CENTERLINE.
—	CONTOUR LINE EVERY 0,25 MTS.
—	CONTOUR LINE EVERY 1,00 MTS.
—	CONTOUR ELEVATION

APPLIED ENGINEERING GROUP
INGENIEROS CIVILES Y ELECTRICISTAS
CALLE CALLES 1000
TEL: 099 960 1000

REVISIONS

NO.	DATE	DESCRIPTION

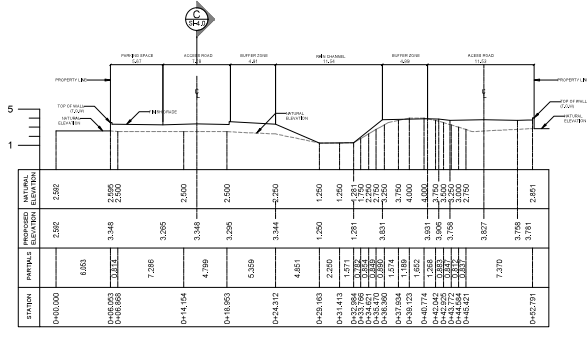
NOTA: El Ing. JUAN ALBERTO LEVY, Sr. 124-010-025-05, certifica que soy el profesional responsable de este proyecto de ingeniería. Este certificado es válido para el presente proyecto y no puede ser utilizado para otros proyectos. El presente certificado no garantiza ni asegura la exactitud de la información contenida en el presente proyecto. El presente certificado no garantiza ni asegura la exactitud de la información contenida en el presente proyecto. El presente certificado no garantiza ni asegura la exactitud de la información contenida en el presente proyecto.

PROPOSED GRADING SITE PLAN

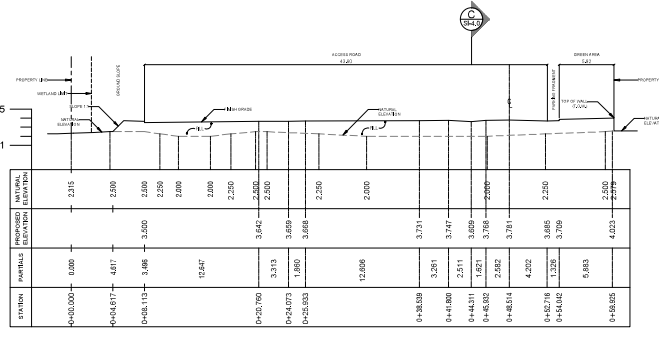
PROJECT: PUBLIC PARKING LOT PROJECT
LOCATED AT THE MUNICIPALITY OF RINCÓN, GUAYAS WARD

DATE: 2024-08-15
SCALE: 1:1000
SHEET NO. 14 OF 16

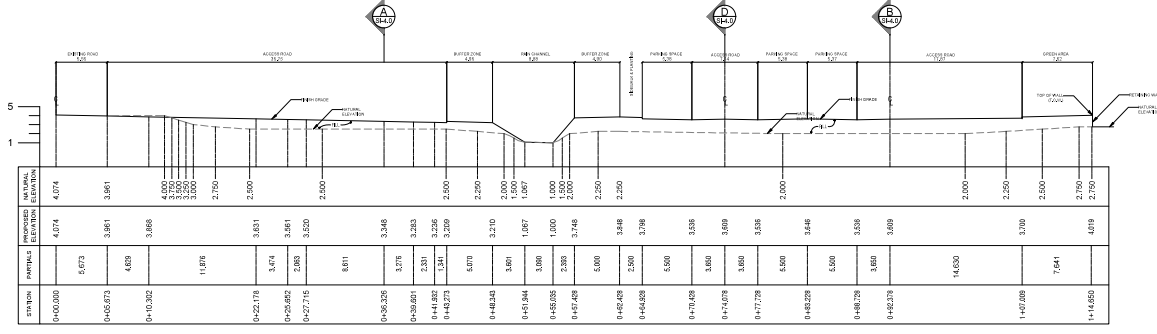
SI-3.0



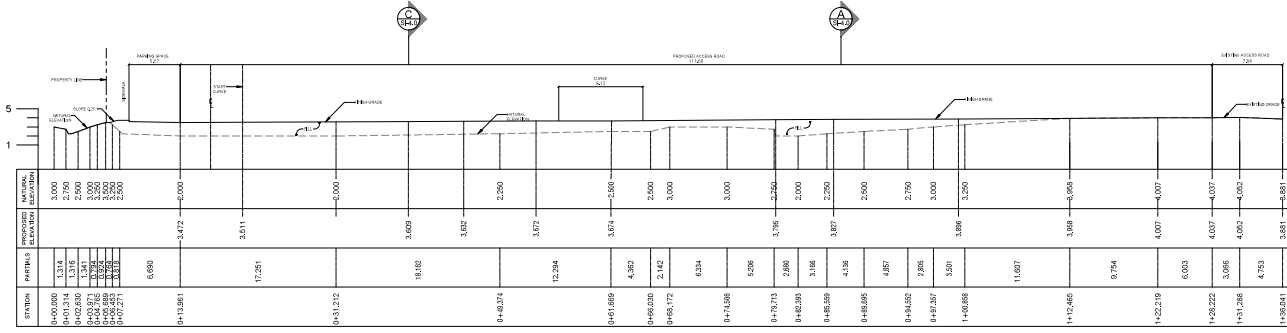
LONGITUDINAL PROFILE
SCALE: 1:250

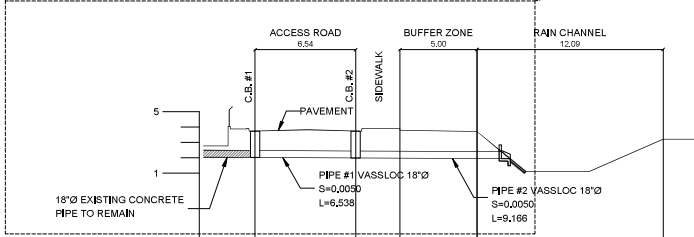
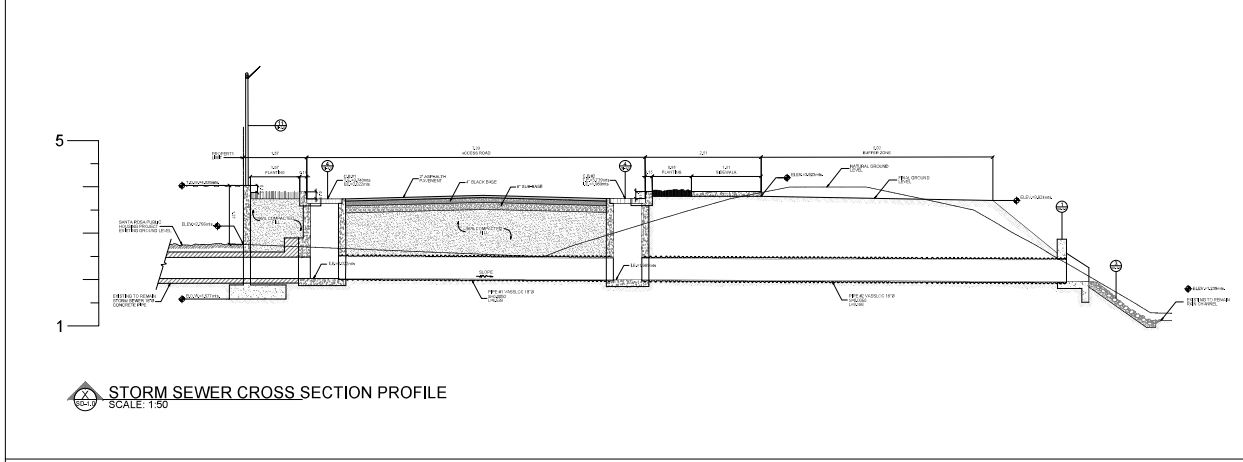


LONGITUDINAL PROFILE
SCALE: 1:250



LONGITUDINAL PROFILE
SCALE: 1:250





STATION	PARTIALS	TOP ELEVATION	INVERT ELEVATION
0+00.000	0.000	3.740	2.022
0+06.538	6.538	3.739	1.989
0+09.419	2.881	3.881	
0+14.419	5.000	3.824	
0+14.419	5.000	3.824	

REVISIONS

NO.	DATE	DESCRIPTION

NOTA: No. 10, Ley 1302, Ley 1303, Ley 1311, Ley 1312, Ley 1313, Ley 1314, Ley 1315, Ley 1316, Ley 1317, Ley 1318, Ley 1319, Ley 1320, Ley 1321, Ley 1322, Ley 1323, Ley 1324, Ley 1325, Ley 1326, Ley 1327, Ley 1328, Ley 1329, Ley 1330, Ley 1331, Ley 1332, Ley 1333, Ley 1334, Ley 1335, Ley 1336, Ley 1337, Ley 1338, Ley 1339, Ley 1340, Ley 1341, Ley 1342, Ley 1343, Ley 1344, Ley 1345, Ley 1346, Ley 1347, Ley 1348, Ley 1349, Ley 1350, Ley 1351, Ley 1352, Ley 1353, Ley 1354, Ley 1355, Ley 1356, Ley 1357, Ley 1358, Ley 1359, Ley 1360, Ley 1361, Ley 1362, Ley 1363, Ley 1364, Ley 1365, Ley 1366, Ley 1367, Ley 1368, Ley 1369, Ley 1370, Ley 1371, Ley 1372, Ley 1373, Ley 1374, Ley 1375, Ley 1376, Ley 1377, Ley 1378, Ley 1379, Ley 1380, Ley 1381, Ley 1382, Ley 1383, Ley 1384, Ley 1385, Ley 1386, Ley 1387, Ley 1388, Ley 1389, Ley 1390, Ley 1391, Ley 1392, Ley 1393, Ley 1394, Ley 1395, Ley 1396, Ley 1397, Ley 1398, Ley 1399, Ley 1400, Ley 1401, Ley 1402, Ley 1403, Ley 1404, Ley 1405, Ley 1406, Ley 1407, Ley 1408, Ley 1409, Ley 1410, Ley 1411, Ley 1412, Ley 1413, Ley 1414, Ley 1415, Ley 1416, Ley 1417, Ley 1418, Ley 1419, Ley 1420, Ley 1421, Ley 1422, Ley 1423, Ley 1424, Ley 1425, Ley 1426, Ley 1427, Ley 1428, Ley 1429, Ley 1430, Ley 1431, Ley 1432, Ley 1433, Ley 1434, Ley 1435, Ley 1436, Ley 1437, Ley 1438, Ley 1439, Ley 1440, Ley 1441, Ley 1442, Ley 1443, Ley 1444, Ley 1445, Ley 1446, Ley 1447, Ley 1448, Ley 1449, Ley 1450, Ley 1451, Ley 1452, Ley 1453, Ley 1454, Ley 1455, Ley 1456, Ley 1457, Ley 1458, Ley 1459, Ley 1460, Ley 1461, Ley 1462, Ley 1463, Ley 1464, Ley 1465, Ley 1466, Ley 1467, Ley 1468, Ley 1469, Ley 1470, Ley 1471, Ley 1472, Ley 1473, Ley 1474, Ley 1475, Ley 1476, Ley 1477, Ley 1478, Ley 1479, Ley 1480, Ley 1481, Ley 1482, Ley 1483, Ley 1484, Ley 1485, Ley 1486, Ley 1487, Ley 1488, Ley 1489, Ley 1490, Ley 1491, Ley 1492, Ley 1493, Ley 1494, Ley 1495, Ley 1496, Ley 1497, Ley 1498, Ley 1499, Ley 1500.

PROJECT TITLE: PROPOSED STORM SEWER SITE PLAN
PROJECT: PUBLIC PARKING LOT PROJECT
 LOCATED AT THE INTERSECTION OF BUBBOLA WARD
 FROM MUNICIPALITY OF PINCKNEY TOWNSHIP, CO.

SCALE 1:250
 LAMBERT COORDINATES
 NAD-83 SYSTEM
 X=113,402,1842
 Y=256,235,9921

COMUNIDAD DE BIENES
 FRANCISCO LEVY CUMPIANO

PARQUE DE PELOTA
 MUNICIPIO DE RINCÓN

CONDominio CHALET DEL MAR

RAMÓN QUIJONES ROSARIO

RESIDENCIAL SANTA ROSA
 CANTONED: 124-0190265-06

MANUEL GOMEZ ESPINOSA
 CANTONED: 124-0190265-10

ESTACIONAMIENTO
 MUNICIPIO EXISTENTE

PROPOSED LIGHTING SITE PLAN
 SCALE 1:250

GENERAL NOTES:

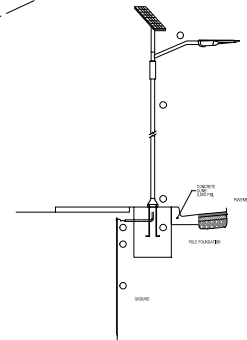
- 1- FOR POLE IDENTIFIERS SEE LIGHTING STANDARD - LSA1 IN THIS SHEET.
- 2- CONTRACTOR TO VERIFY THE INSTALLATION OF POLE PRIMARY LINES. ALL PRIMARY LINES TO BE ABOVE 10-FOOT ASL, AND WITHIN THE INSTALLATION OF POLE LINES. ALL POLE LINES TO BE ABOVE 10-FOOT ASL. TO THE ATTENTION OF ARCHITECT: DRAINAGE DESIGN PROCEDURES, WHICH CONTRACTOR SHALL PROCEED AFTER WRITTEN ALLOWANCE WITH THE INSTALLATION IS ISSUED.

ABBREVIATIONS:

- | | |
|-----------------------------------|------------------------------|
| APF - ABOVE FINISHED FLOOR | J - JUNCTION BOX |
| AFG - ABOVE FINISHED GRADE | A - ABOVE |
| EL - ELEVATION | F - FUTURE |
| TP - TELEPHONE TERMINAL PANEL | E - EMERGENCY |
| RG - RING GALVANIZED STEEL | N - NORTH |
| ENT - ELECTRICAL METALWORK TUBING | EW - ELECTRICAL WORK |
| DXT - DUCT | PP - POWER PANEL |
| ST - STEP-DOWN TRANSFORMER | RP - LIGHTING RESEMPLE PANEL |
| IRC - IRON RING RIBBING | |

LEGEND:

- Lighting Pole with One Fixture per Pole



LIGHTING STANDARD - LSA1

LEGEND - LIGHTING STANDARD - LSA1

- TO BE SINGLE CAST ALUMINUM HOUSING WITH HEAT DIRECTION ALONG THE ENTIRE LENGTH OF THE FIXTURE WHEN PHOTO CONTROL, BUT NO SOLAR ENERGY, LIMIT TO BE SOLAR PATH SUN COLLECTING (SUN-WIND-INDICATOR).
- ALUMINUM POLE TAPERED 10-FOOT DIAMETER FOR ABOUT 120 MPH PLUS 1.2 DUST FACTOR.
- CAST ALUMINUM COVER.
- CONCRETE.
- 1/2" DIA. 1/2" GREEN GROUND CONDUCTOR FOR POLE GROUND.
- 3/4" DIAMETER COPPER CLAD STEEL GROUND ROD.
- FEEDER TO OTHER POLES OR METER BASE TO BE 3/4" DIA. RW AND 1/4" DIA. TRUNK GREEN GROUND CONDUCTOR 1/4" DIA. DIAMETER PVC SCHEDULE 40 CONCRETE ENCASED CONDUIT.

APPLIED ENGINEERING GROUP
 1025 W. ACACIA AVE. SUITE 100
 TAMPA, FL 33606
 TEL: 813.281.1111
 FAX: 813.281.1112
 WWW.AEGRP.COM

NO.	DATE	REVISIONS

DESIGN CONSULTANT

PROPOSED LIGHTING SITE PLAN
 PUBLIC PARKING LOT PROJECT
 1025 W. ACACIA AVE. SUITE 100
 TAMPA, FL 33606
 LOCATED AT THE INTERSECTION OF BIENENDA HARD
 FROM MAIN PART OF RINCÓN CEMENTO INC.

SHEET TITLE
 PROJECT
 DATE
 DRAWN BY
 CHECKED BY
 SCALE
 SHEET NO. 11

Attachment 4

Step 7 Final Notice and Public Review of a Proposed
Activity in the Floodplain and Wetland



VIVIENDA

GOBIERNO DE PUERTO RICO

AVISO PÚBLICO

Aviso Final y Explicación Pública de una
Actividad Propuesta en un valle inundable y humedal

Estacionamiento Urbano
PR-CRP-000505

Para: Todas las agencias interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) completó una evaluación según estipulado en la Orden Ejecutiva 11988 y la Orden Ejecutiva 11990, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 en la 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 y B-18-DP-72-0001. El proyecto propuesto, **PR-CRP-000505**, está localizado en la calle Parque, Rincón, PR 00677; coordenadas 18.33987, -67.25280 y está ubicado dentro de un valle inundable y humedal. El proyecto consiste en la construcción de un estacionamiento que incluirá la preparación del terreno para realizar la instalación de pavimento asfáltico y hormigón en todas las áreas requeridas, creando aceras dentro del nuevo estacionamiento y rellenando las subbases y bases. Este incluye la instalación de protectores de parachoques/topes de rueda, la construcción de aproximadamente 66 unidades de estacionamiento incorporando unidades en cumplimiento con la Ley para estadounidenses con Disparidades (ADA, por sus siglas en inglés) y unidades de estacionamiento para motocicletas, y la creación de accesos peatonales de concreto poroso en las entradas en cumplimiento con la ADA. Además, incluye iniciativas verdes, como la plantación de árboles nativos y la instalación de postes de iluminación solar, construcción de cimientos para el soporte de los postes solares, la instalación de letreros para la señalización adecuada, la construcción de un sistema de drenaje pluvial, la construcción de una entrada al estacionamiento, la construcción de una zona de descanso (gazebo), la instalación de un emblema para observar el Ojo de Agua y la instalación de verja perimetral. Se instalará verja de seguridad en la acera existente frente al Ojo de Agua, y se protegerá y delimitará un árbol (Ceiba) existente en el estacionamiento. La actividad propuesta, con dimensiones de 2.17 acres, está situada en zonas combinadas, 1.66 acres en un valle inundable de 500 años, zona de inundación X sombreada y 0.51 acres fuera del valle inundable, y 0.31 acres en un humedal emergente.

Vivienda consideró las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y preservar las funciones naturales y beneficiosas, y los valores intrínsecos del valle inundable y el humedal existente: (1) ubicar el proyecto dentro del valle inundable/humedal, (2) ubicar el proyecto fuera del valle inundable/humedal, y (3) no tomar acción. Se consideraron ubicaciones alternas fuera del humedal y el valle inundable, pero no se eligieron debido a que no permitirían mejorar las condiciones de un área que será utilizado por los residentes y visitantes. Se consideró no realizar la acción propuesta, pero no se seleccionó, ya que no mejoraría las facilidades existentes ni aumentaría la seguridad de la comunidad. Se ha determinado que la acción debe llevarse a cabo en el valle inundable y humedal, ya que mejorará las condiciones e infraestructura del sitio existente, aumentará el bienestar de los residentes y visitantes, tendrá un impacto positivo en las propiedades vecinas, así como en el núcleo comercial de Rincón. Ayudará a proteger la inversión financiera de los negocios colindantes que sirven a la comunidad, brindará alternativas más seguras a las comunidades de ingresos bajos y moderados que rodean el área, mitigará y minimizará los impactos sobre la salud humana, la propiedad pública y los valores del valle inundable y humedal, ayudará a prevenir un mayor deterioro del sitio, y mejorará la seguridad vial. Para mitigar cualquier efecto adverso, el diseño del sitio considera provisiones para drenaje, se preparará un plan de prevención de contaminación de aguas pluviales y se implementarán las mejores prácticas de manejo para evitar escorrentía superficial, encharcamientos y sedimentación. La actividad propuesta no afecta ni contribuye a funciones naturales y beneficiosas del valle inundable y el humedal, tales como el almacenamiento y descarga de aguas de inundación, la descarga y recarga de acuíferos, el control de la erosión, el control de la calidad del agua o el hábitat de la flora y fauna. No se incrementarán las disparidades ambientales históricas debido a la actividad propuesta. El proyecto cumplirá con las regulaciones estatales y locales de protección de valles inundables y humedales.

Vivienda reevaluó las alternativas para construir en el valle inundable y humedal y determinó que no cuenta con alternativas prácticas al desarrollo del valle inundable y humedal. La documentación ambiental que documenta el cumplimiento con la Orden Ejecutiva 11988 y Orden Ejecutiva 11990 está disponible para inspección, revisión y reproducción del público, de ser solicitado, en el horario y lugar indicado en el último párrafo de este aviso, el cual trata sobre recibo de comentarios.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el valle inundable y humedal y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus preocupaciones 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 públicos sobre valles inundables y humedales 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 determina participar en acciones ubicadas en el valle inundable y humedal, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Comentarios por escrito deben ser recibidos por Vivienda en la siguiente dirección en o antes del 26 de mayo de 2025: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, y (787)274-2527 ext. 4320, Atención: Ciary Y. Pérez Peña, Secretaria. 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. Los comentarios también pueden enviarse por correo electrónico a comentariosambiental@vivienda.pr.gov.

Fecha: 16 de mayo de 2025.



HOUSING

GOVERNMENT OF PUERTO RICO

PUBLIC NOTICE

Final Notice and Public Explanation of a
Proposed Activity in a Floodplain and Wetland

Estacionamiento Urbano
PR-CRP-000505

To: All Interested Agencies, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by Executive Order 11988 and Executive Order 11990, in accordance with HUD regulations at 24 CFR 55.20 in Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the City Revitalization Program, Community Development Block Grant - Disaster Recovery (CDBG-DR), Grant Number B-17-DM-72-0001 and B-18-DP-72-0001. The proposed project, **PR-CRP-000505**, is located at Parque Street, Rincón, PR 00677; coordinates 18.33987, -67.25280 and is located within the floodplain and wetland. The project consists in the construction of a parking lot that will include the preparation of the land to carry out the installation of asphalt pavement and concrete in all the required areas, creating sidewalks within the new parking lot and filling the subbases and bases. It includes the installation of bumper/wheel stop guards, the construction of approximately 66 parking units, incorporating Americans with Disabilities Act (ADA) compliant units and motorcycle parking units, and the creation of porous concrete pedestrian access ADA compliant entrances. In addition, it includes green initiatives such as the planting of native trees and the installation of solar lighting poles, construction of foundations for the support of the solar poles, the installation of signs for proper signage, construction of a storm drainage system, construction of an entrance to the parking lot, construction of a rest area (gazebo), installation of an emblem to observe the "Ojo de Agua" and installation of a perimeter fence. A security fence will be installed on the existing sidewalk in front of the "Ojo de Agua", and an existing tree (Ceiba) in the parking lot will be protected and demarcated. The proposed activity with dimensions of 2.17 acres is situated in combined zones, 1.66 acres are in a 500-year floodplain, X-shaded flood zone and 0.51 acres are outside floodplain, and 0.31 are in an emergent wetland.

PRDOH has considered the following alternatives and mitigation measures to minimize adverse impacts and to restore and preserve natural and beneficial functions and intrinsic values of the existing floodplain and wetland: (1) locate the project within the floodplain/wetland, (2) locate the project outside of the floodplain/wetland, and (3) take no action. Alternative locations outside of the wetland and floodplain were considered but were not chosen since it would not allow to improve the conditions of the area that will be used by residents and visitors. Taking no action was considered, but not selected because it would not improve existing facilities or increase community safety. It was determined that the action must take place in the floodplain and wetland, since it will improve the existing site's conditions and infrastructure, increase the well-being residents and visitors, and have a positive impact on neighboring properties, as well as Rincón's business core. It will help protect the financial investment of the contiguous businesses that serve the community, provide safer alternatives to low- and moderate-income communities surrounding the area, mitigate and minimize impacts on human health, public property and floodplain and wetland values, help prevent further deterioration of the site, and improve traffic safety. To mitigate any adverse effect, the site design considers provisions for draining, a stormwater pollution prevention plan would be prepared, best management practices would be implemented to avoid surface runoff, ponding, and sedimentation. The proposed activity does not affect or contribute to natural and beneficial functions of the floodplain and wetland such as, storage and discharge of flood waters, discharge and recharge of aquifers, erosion control, water quality control or flora and fauna habitat. No historical environmental disparities will be increased due to the proposed activity. The project will comply with state and local floodplain and wetland protection regulations.

PRDOH has reevaluated the alternatives to building in the floodplain and wetland and has determined that it has no practicable alternative to floodplain and wetland development. Environmental files that document compliance with Executive Order 11988 and Executive Order 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 and 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 floodplains and wetlands 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 and wetland, it must inform those who may be put at greater or continued risk.

Written comments must be received by the PRDOH at the following address on or before May 26, 2025: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, and (787)274-2527 ext. 4320, Attention: Ciary Y. Pérez Peña, Secretary. A full description of the project may also be reviewed 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. Comments may also be submitted via email at comentariosambiental@vivienda.pr.gov.

Date: May 16, 2025.

RosaRamos, Sol

From: Michelle Puig <michelle.e.puig@gmail.com>
Sent: Friday, May 16, 2025 10:10 AM
To: Brian.J.Schlosnagle@hud.gov; Caribbean_es@fws.gov; Lourdes_Mena@fws.gov; vivian.gerena@usace.army.mil; nelson.r.colon@usace.army.mil; cesaa-cco@usace.army.mil; Rivera_r1@jp.pr.gov; comentariosjp@jp.pr.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; waldemar.quiles; comentariosambiental@vivienda.pr.gov
Cc: RosaRamos, Sol; BousonoCardona, Carlos
Subject: PR-CRP-000505 Final Notice and Public Explanation of a Proposed Activity in a Floodplain and Wetland
Attachments: Aviso publico CRP 505- Rincón.pdf

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Concerned agencies,

*Enclosed please find a **Final Notice and Public Explanation of a Proposed Activity in a 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 for the project Estacionamiento Urbano (PR-CRP-000505). The Final Notice was published in the Primera Hora newspaper of Puerto Rico on May 16, 2025.*

Cordially,
Michelle E. Puig
michelle.e.puig@gmail.com

From: [Kenneth M. Garcia-De Leon](#)
To: [CDBG - Comentarios Ambiental](#)
Subject: RE: Comentarios - Aviso Final - PR-CRP-000505
Date: Wednesday, May 28, 2025 10:28:48 AM
Attachments: [image001.png](#)
[image002.png](#)

Saludos:

Por correo postal no llegaron comentarios para mencionado proyecto.

Cordialmente,

KENNETH M. GARCÍA DE LEÓN
ESPECIALISTA EN CONTROL DE DOCUMENTOS | OPERACIONES
Oficina de Recuperación de Desastres

kgarcia@vivienda.pr.gov | 787-274-2527 Ext. 4013

Visítanos: recuperacion.pr.gov

Contáctanos: infocdbg@vivienda.pr.gov



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From: CDBG - Comentarios Ambiental <comentariosambiental@vivienda.pr.gov>
Sent: Wednesday, May 28, 2025 10:20 AM

To: Kenneth M. Garcia-De Leon <kgarcia@vivienda.pr.gov>

Subject: Comentarios - Aviso Final - PR-CRP-000505

Saludos Kenneth,

Con respecto a la publicación del Aviso Final y Explicación Pública de una Actividad Propuesta en un valle inundable y humedal (Paso 2) para el proyecto **Estacionamiento Urbano (PR-CRP-000505)**, ¿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

comentariosambiental@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov

Contact us: infocdbg@vivienda.pr.gov



DEPARTAMENTO DE LA

VIVIENDA

GOBIERNO DE PUERTO RICO

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Attachment 12 SHPO Consultation Package



OFICINA ESTATAL DE

CONSERVACIÓN HISTÓRICA

GOBIERNO DE PUERTO RICO

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Friday, June 27, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-06-12-25-01 PR-CRP-000505 (Rincón), Estacionamiento Urbano

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. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

After a review of all the documentation, the PRSHPO concurs with your finding that the proposed project will have no adverse effect upon historic properties.

Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. 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/OJR





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

June 12, 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
Section 106 NHPA Effect Determination Submittal for PR-CRP-000505,
Estacionamiento Urbano, Rincón, Puerto Rico – No Adverse Effect

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, PRDOH contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support their objectives for the CDBG-DR funds.

On behalf of PRDOH, HORNE is submitting documentation for the proposed Estacionamiento Urbano project. The Municipality Rincón proposes expanding existing parking infrastructure by adding 70 new parking spaces, including spaces designated for handicapped parking as per ADA requirements. The project will also include fencing, installation of new solar lighting system,

stormwater drainage system, green spaces, and a rest area with seating and informational signage. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 60% design drawings.

Based on the documentation provided, the Program requests a concurrence with a determination that "**No Adverse Effect**" is appropriate for this undertaking.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,

A handwritten signature in cursive script that reads 'Lauren B. Poche'.

Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager

LBP/KPS


Attachments

PR-CRP-000505

ESTACIONAMIENTO URBANO PROJECT

RINCÓN, PUERTO RICO

SECTION 106 EFFECT DETERMINATION FORM

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM		
CITY REVITALIZATION PROGRAM (CITY-REV)		
Section 106 NHPA Effect Determination		
Subrecipient: Municipality of Rincón		
Case ID: PR-CRP-000505	City: Rincón	
Project Name: Estacionamiento Urbano		


Project Location: Bo. Ensenada, Carr 413 Km. Hm 0.7 Int, PR, Puerto Rico, 00000	
Project Coordinates: 18.339565, -67.252595	
TPID (Número de Catastro): 124-000-005-38-000 and 124-010-029-07-000	
Type of Undertaking:	
<input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
Construction Date: N/A	Property Size (acres): 2.099

SOI-Qualified Architect/Architectural Historian: Heidi J. Dilan, Ph.D.
Date Reviewed: November 20, 2024 (revised May 16, 2025)
SOI-Qualified Archaeologist: Federico L. Freytes Rodríguez, M.A.
Date Reviewed: August 28, 2024 (revised May 16, 2025)

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. 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. It has been determined by the SOI-qualified professionals that the project undertaking does not conform to Stipulation II.A (Project Review – Programmatic Allowances) of the Section 106 Programmatic Agreement (PA) among FEMA, SHPO and COR3, as amended (May 3, 2023).

Project Description (Undertaking)

The project is located in the Municipality of Rincón, on Progreso Street Interior, 0.03 miles (mi) northwest of the Rincón Traditional Urban Center (TUC) and nearby historic structures (See Figure 1). The proposed parking lot aims to provide more space for visitors and the local community by expanding the existing parking infrastructure. This expansion will support the economic and cultural development of the central town square.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Rincón	
Case ID: PR-CRP-000505	City: Rincón
Project Name: Estacionamiento Urbano	

The project consists of various construction and landscaping activities outlined below (Figures 1-3):

1. Parking Lot Construction

A. Parking Capacity:

The new development will expand the existing parking facilities by adding 70 new parking spaces, including spaces designated for handicapped parking as per ADA requirements. The parking spaces will be clearly marked, including directional traffic flow arrows and handicapped spaces (See Figure 3).

B. Concrete Pavement:

New concrete will be installed across the lot, including wheel stops for each space made from reinforced concrete. Pavement markings will follow the latest building codes, and road striping will meet PR-DTOP standards (See Figure 3).

C. Vehicle Access:

The lot will be accessible via Calle Progreso, with vehicular exits located on the northeast side of the project area (See Figure 3).

D. Fencing:

High fence with barbed wire will be installed along the project site perimeter. The fence will measure approximately 8 ft above the grade, and will require 3.5 ft ground disturbance for post installation.


2. Lighting and Renewable Energy

A. Solar-Powered Lighting:

To support sustainability, solar-powered lighting systems will be installed. The design of the lighting structures will incorporate the latest solar technologies to ensure energy efficiency and low environmental impact. Lamp installations will require a maximum ground disturbance depth of 2 feet. (See Figure 3).

B. Water Connection:

A tamper-proof water connection will be installed for maintenance and cleaning purposes. The maximum ground disturbance depth expected for this work is 1 ft. (See Figure 3).

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Rincón	
Case ID: PR-CRP-000505	City: Rincón
Project Name: Estacionamiento Urbano	

3. Site Preparation

A. Topsoil Removal, Grading and Removal Activities:

The site preparation will involve topsoil removal and the addition of a subbase fill to create a stable foundation for construction. The grading work will ensure proper drainage and leveling of the parking lot. In addition, the proposed scope of work involves removing existing vegetation, sidewalks, asphalt pavement and existing concrete areas that are currently obstructing the use of the site (See Figure 1 and 2). These removal activities will involve ground-disturbing activities, with depths varying up to a maximum of 3 feet below ground level.

B. Storm Drainage System:

A stormwater drainage system will be implemented to manage runoff and prevent flooding during rainy periods. Ground disturbance depth of approximately 6 ft is expected (See Figure 3).


4. Landscaping

A. Native Vegetation:

A landscape architect will design green spaces within the parking lot, including tree planting and the use of native plant species. These plants will require minimal maintenance and water, contributing to the environmental sustainability of the project. Tree root ball planting will require a maximum ground disturbance depth of 3 feet. (See Figure 3).

B. Rest Area and Emblem of Ojo de Agua:

A designated rest area with seating and informational signage about the historic emblem of Ojo de Agua will be incorporated. Signage installation will require a maximum ground disturbance depth of 2 feet. (See Figure 3).

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Rincón	City: Rincón
Case ID: PR-CRP-000505	
Project Name: Estacionamiento Urbano	

The activities detailed above are visually represented in the following figures:

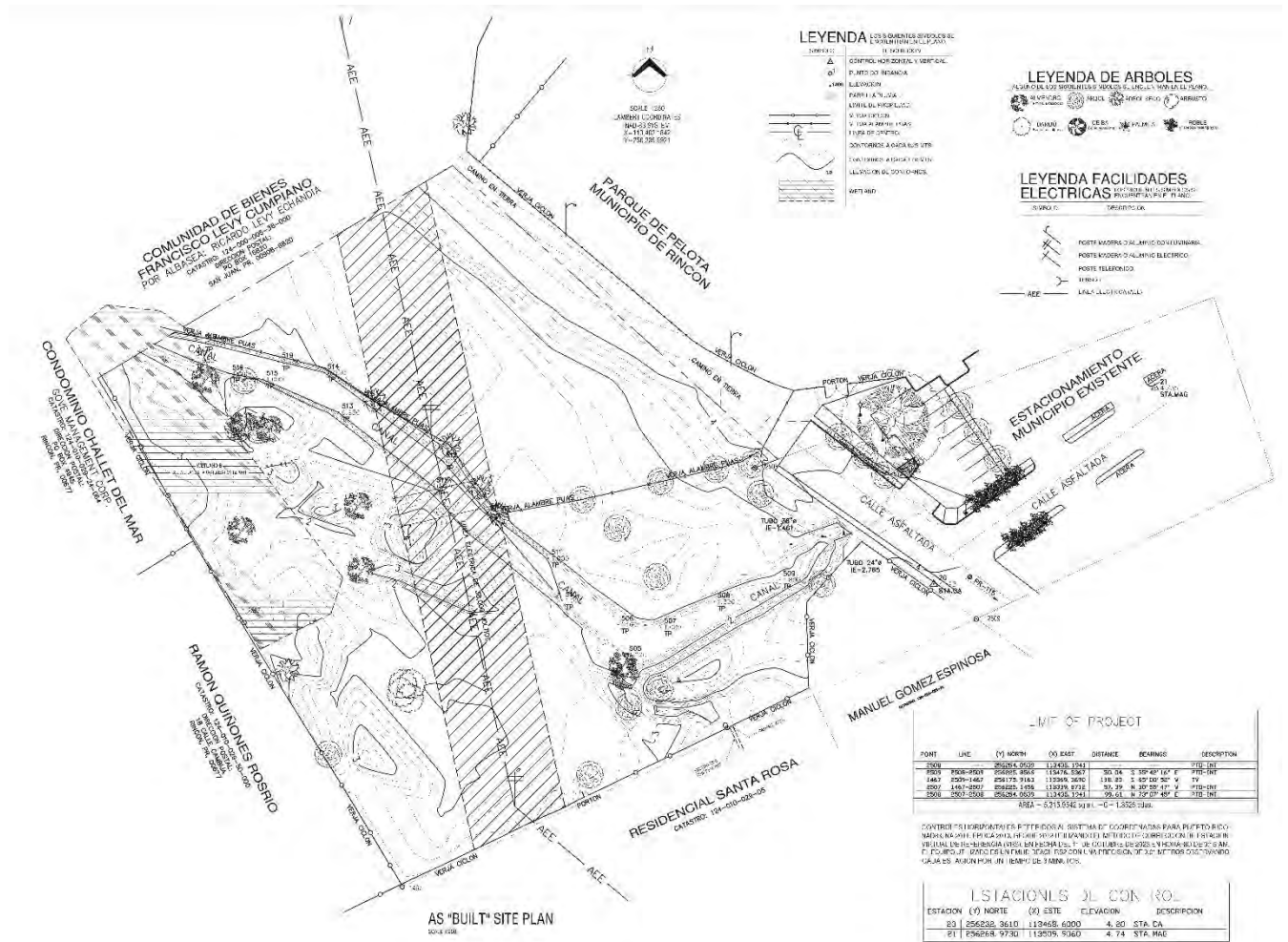



Figure 1

Description: Existing Conditions Plan showing the current site layout and components.

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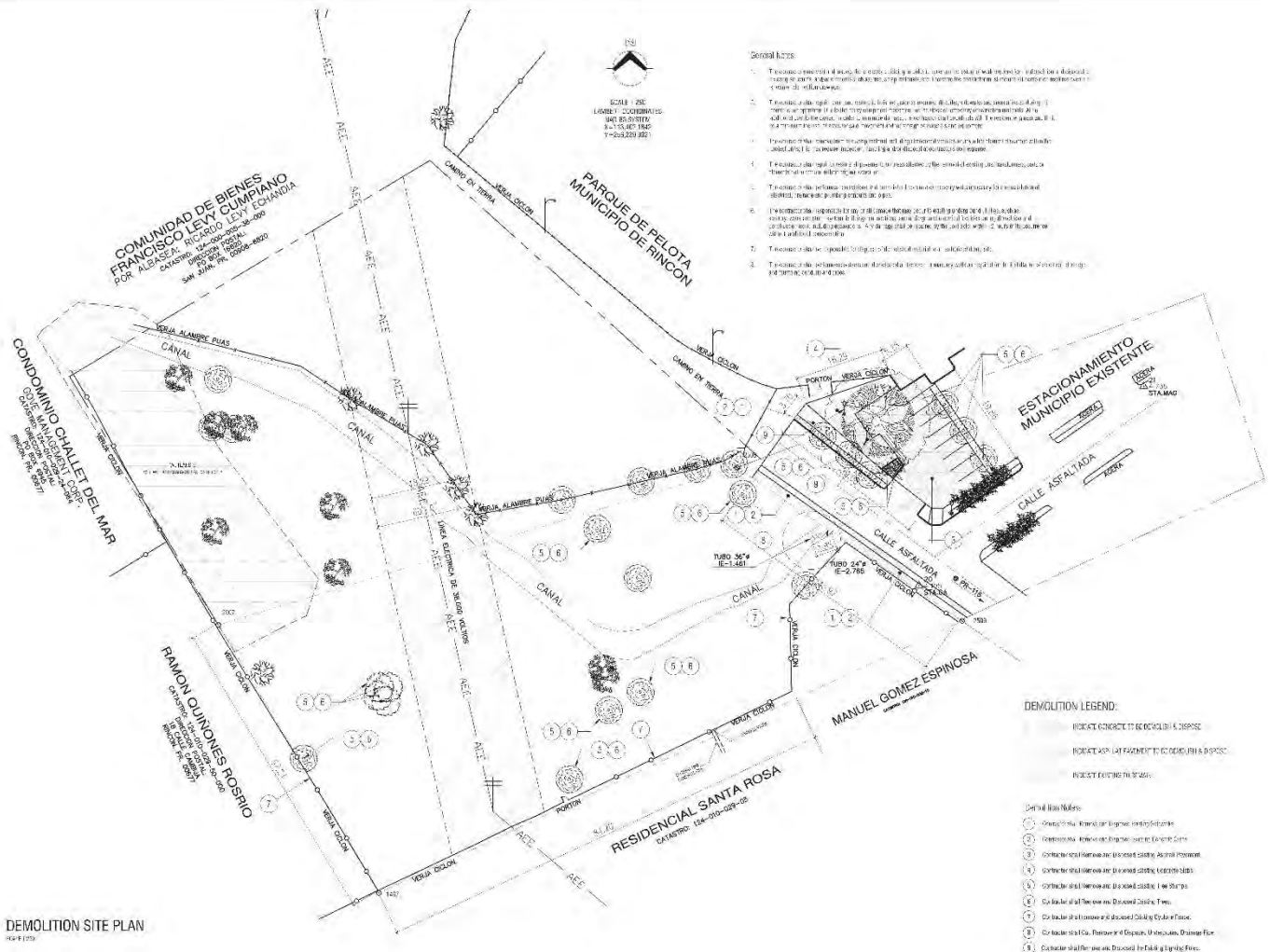



Figure 2

Description: Demolition Plan of Proposed Project: Ojo de Agua Public Parking Lot Project where are detailed the proposed removal activities for site preparation.

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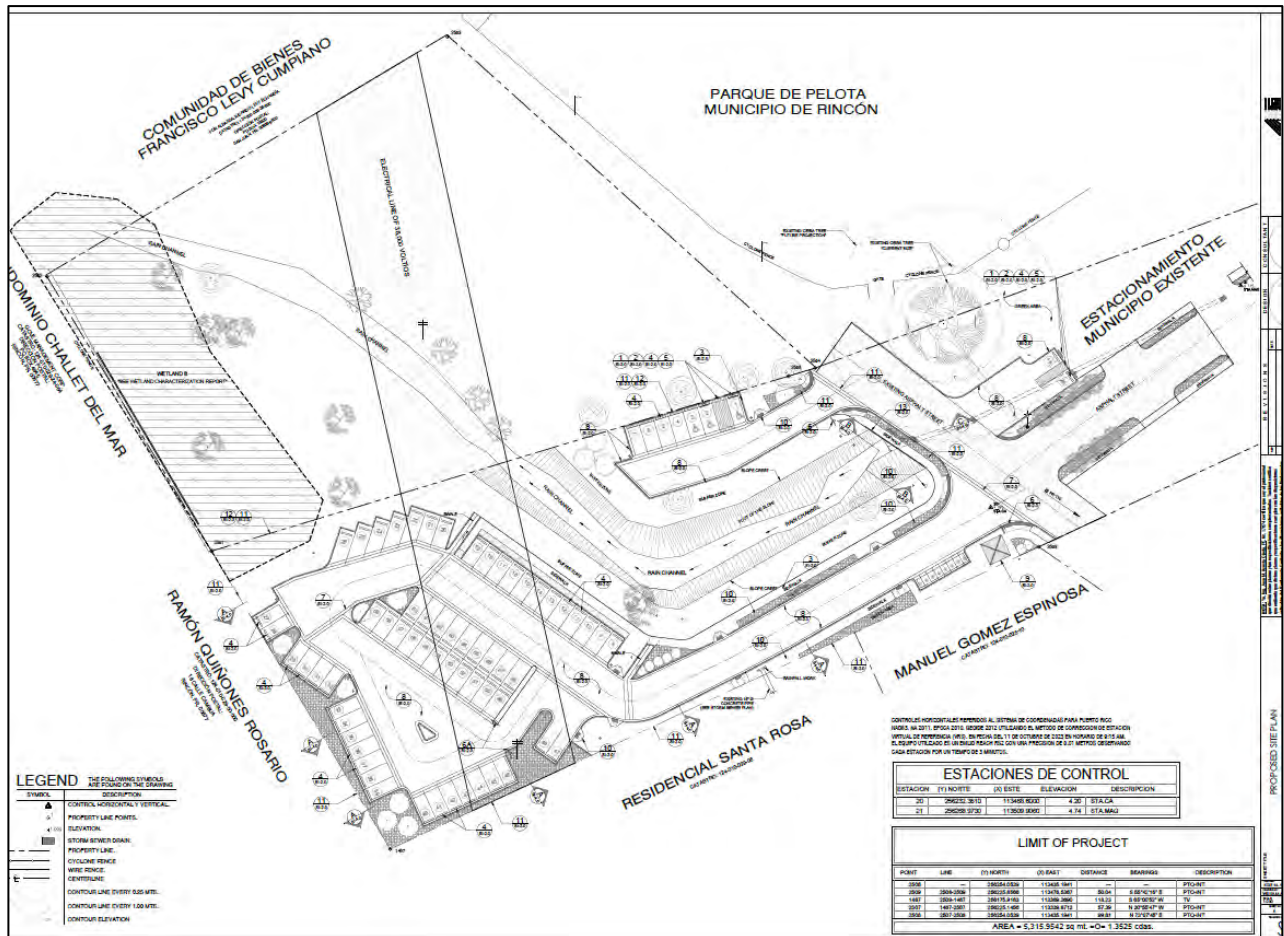



Figure 3

Description: Proposed Site Plan of proposed project: Ojo de Agua Public Parking Lot Project.

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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 an area of 585 feet in length and 250 feet in width, or 8,494.35 square meters. A majority of the proposed project will be located on parcel with cadaster number 124-000-005-38-000, while the remaining project area will include the existing parking lot located to the east-northeast on the lot with cadaster number 124-010-029-07-000. The site integrates natural and built elements through preserved vegetation, stormwater management systems, and varied terrain. In addition, this parcel is outside the boundaries of the Traditional Urban Center of Rincón, specifically 323 feet to the west from the nearest TUC boundaries. The direct APE is bounded by Parque Rafael Rivera Romero to the North, Cambija Street to the South, Residential Properties located on Calle Progreso to the East, and Condominio Chalet del Mar to the West.

The Visual APE encompasses an area measuring 939 feet in length by 381 feet in width, surrounding the Direct APE, and is defined as the viewshed of the proposed project. This viewshed includes Parque Rafael Rivera Romero to the north, residential properties in Bo. Pueblo to the south, residential properties on Progreso Street and Ojo de Agua Street, as well as Residencial Santa Rosa to the east, and Condominio Chalet del Mar and unoccupied land to the west. The viewshed also includes the facades of the surrounding buildings.

Identification of Historic Properties - Archaeology

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 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 no historic or prehistoric archaeological sites were identified within the ¼ mile study radius of the proposed project.

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Pre-contact Context

Various prehistoric cultural resources have been identified in Rincón. The area has been studied since early in the 20th century by Samuel Lothrop Adolfo de Hostos, Ovidio Dávila, Miguel Rodríguez, among others. Their investigations revealed the presence of pre-contact remains and petroglyphs that dated from approximately 2000 years ago to the first decades of the contact period. Although no sites were reported within the ¼ mile study radius, 2 sites were identified near the coast, northwest of the project parcel. SHPO site RC0100001; R-1 was a pre-Columbian midden/mounds/petroglyph located 0.36 mi northwest of the project area. SHPO site RC0100002; R-2, also known as Fussá II, is a petroglyph that was removed from its original location, being part of site R-1. It is located 0,39 mi northwest of the project area.

At the arrival of the Spanish, the territory of Rincón was divided between the Taíno caciques (chiefs) Aymamón and Mabodamaca. (SHPO Archaeological Sites of Rincón, PDF).

Historic Context

Fernando Miyares González tells us in his work *Noticias particulares de la Isla y plaza de San Juan Bautista de Puerto Rico* (1775) that Rincón was founded by Governor Miguel de Muesas on July 27, 1771. By 1778, Iñigo Abad y Lasierra wrote that the town was called Santa Rosa del Rincón and that it was founded in 1772. During his visit, he observed that the town had 11 houses and the church (which he describes as “very poor”). The neighborhood is home to 1,130 people, spread out over the hills between Rincón and Añasco. The inhabitants of the area were dedicated to raising cattle and planting fruits, rice, and tobacco. Little is known of the use that was given to the project parcel from the founding of the town until the 19th century, Manuel Ubeda y Delgado wrote in 1878 that the lands near the town were cultivated with sugarcane and coconut groves. The project area would have been an ideal place for agricultural use being mostly flat, and having a water source within its perimeter. Early in the 20th century William H. Armstrong visited Rincón and took a picture of the urban center in which the approximate area of the project site is shown covered in vegetation, mainly coconut palms and grasses (Aníbal Sepúlveda 2004).

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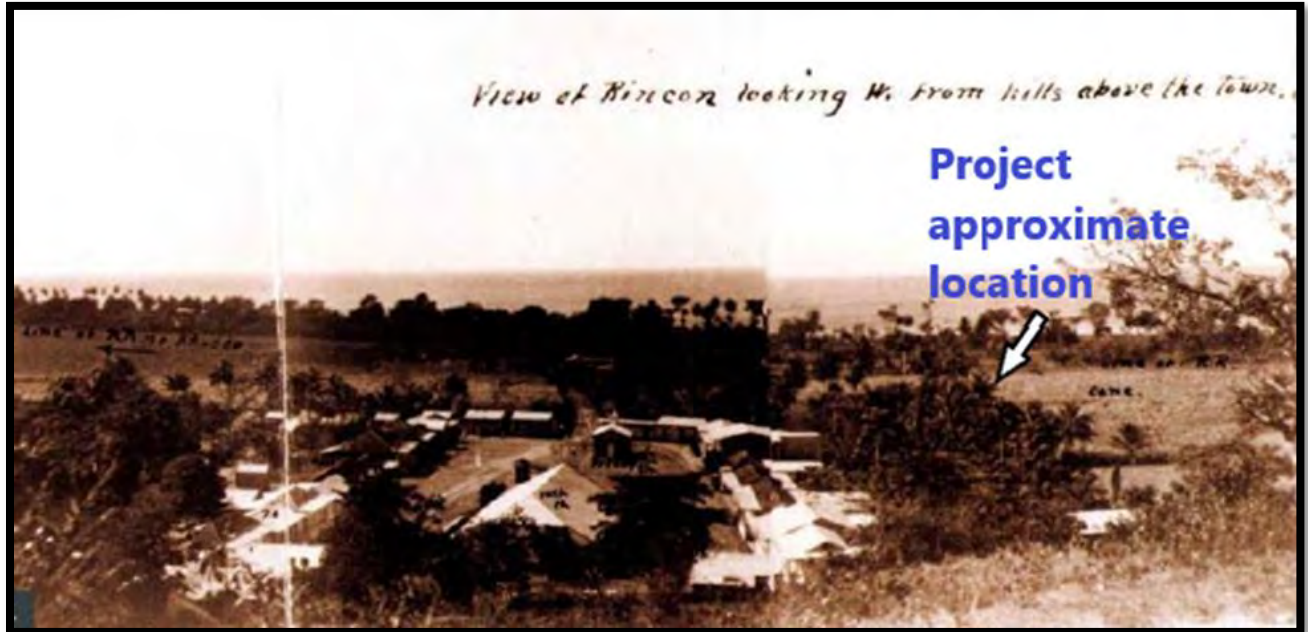



Figure 4. 1910 photograph by William H. Armstrong showing Rincón urban center and the approximate location of the proposed project covered in coconut palm trees. (Source: Aníbal Sepúlveda 2004).

During the 1930's through the 1970's the lot was kept free of trees. Only grasses or sugarcane and some areas with coconut palms could be seen in aerial photographs and USGS topographic maps (and discussed in the following section). At some point between 1970's and 1998 a canal was dug through the center of the project area. The canal began at the edge of Progreso Street, flowing southwest for approximately 140 ft, then turning almost 90 degrees where it continued flowing northwest and away from the project lot. By 1998 the neighboring parking lot (of which the proposed project is an extension of) and Calle Progreso were built. between 1998 and 2004 a small children's playground was built in the southeastern portion project parcel next to Progreso Street. Some structures were built in an unknown date and are located in the southwest section of the APE. The first aerial imagery that shows these structures is form 2018. Currently, the project parcel is not being used and is covered in dense vegetation.

Historical Maps

The following map shows a portion of the western coast of Puerto Rico. The original chart was drawn by Camilo Alabern in 1850 and shows the location of the town of Rincón and the

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project general area. The map also depicts nearby towns, roads, rivers, and topographic features (figures 5-6).

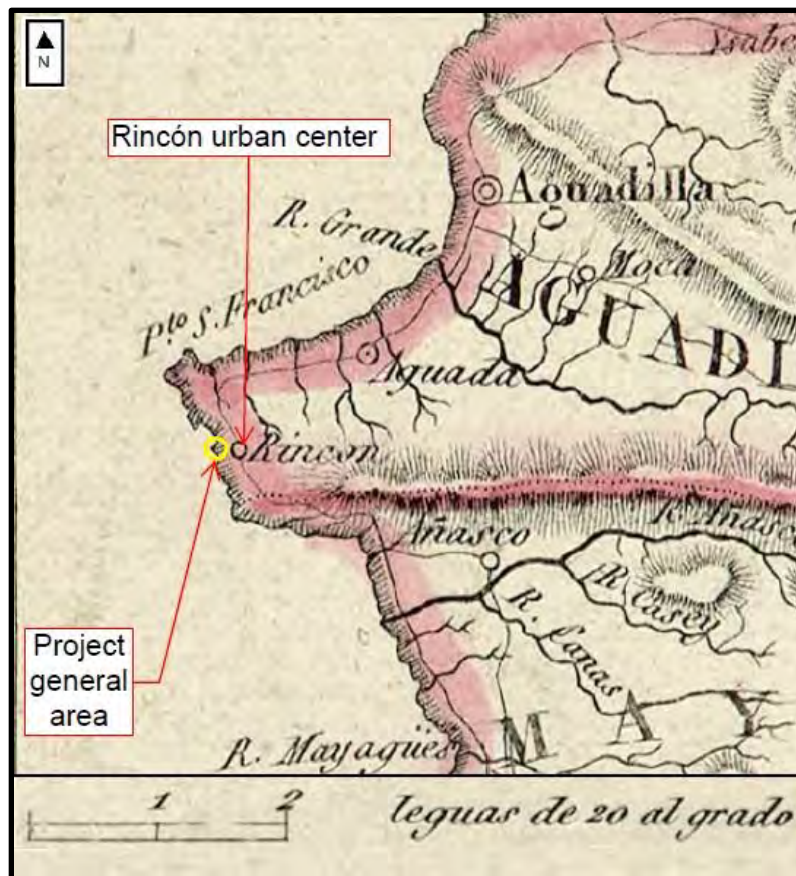



Figure 5. Section of 1850 map of Puerto Rico by Camilo Alabern showing location of Rincón and the project's general area.

Source: <https://www.geoisla.com/2020/01/mapa-de-las-antillas-espanolas-1850/>

The next image is a plan of the Rincón urban center in 1869 (figure 6). The “Ojo de Agua” stream can be seen northwest of the public plaza, flowing from northeast to southwest, past the eastern part of the location of the lot to be developed. No structures or any type of development can be observed within project's general area.

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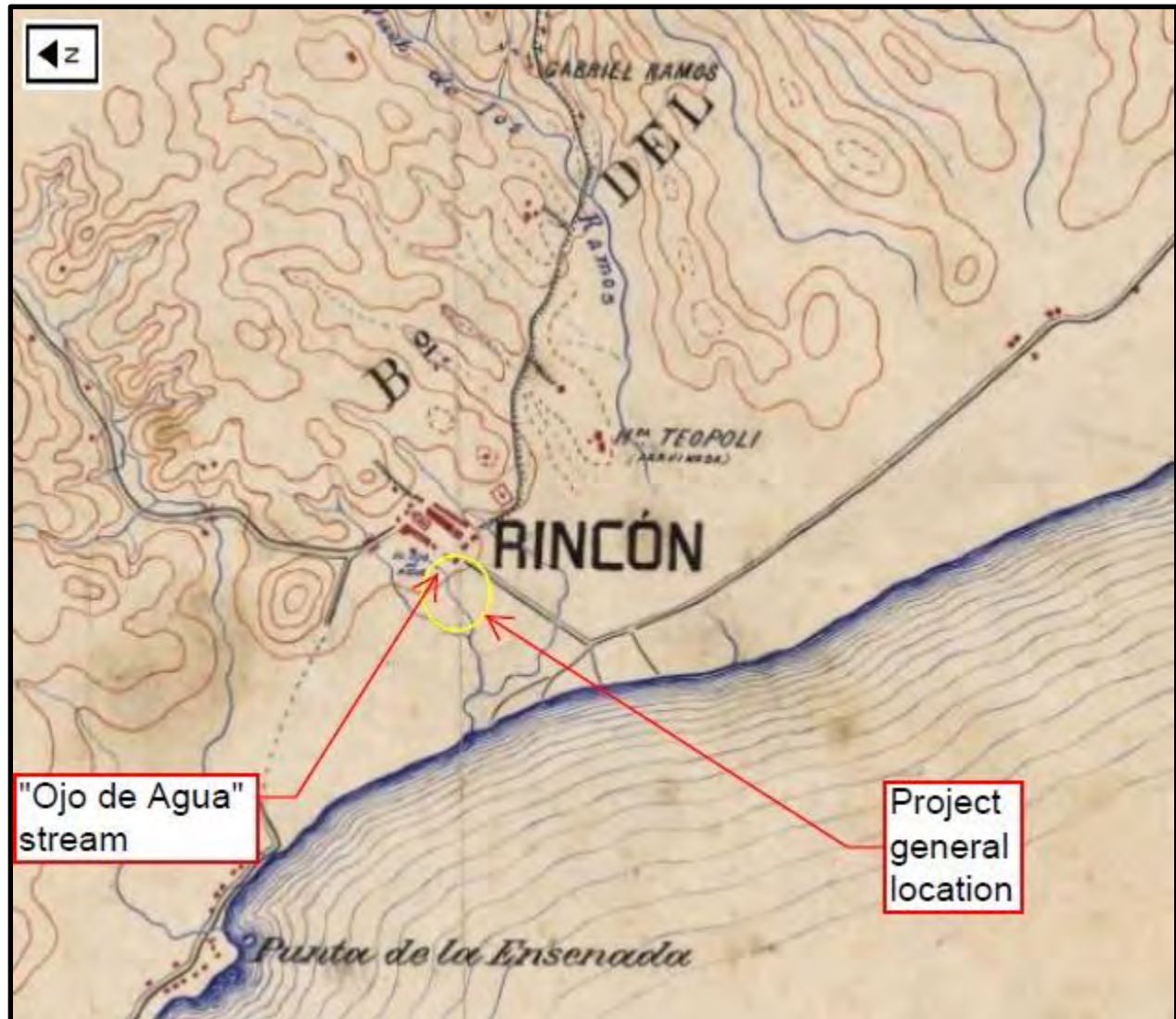



Figure 6. 1892 map of road between Rincón and San Sebastián drawn by Félix de Ardanaz y Crespo. The chart depicts buildings within the Rincón urban center. The “Ojo de Agua” stream passes through the general project area.

Source: <https://archivonacional.com/?t=191JGg0jC>.

Also included are historic photographs from 1937 to 2018 and United States Geological Survey (USGS) Topographic maps, Rincón Quadrant, from 1941 to 1969 (figures 7-14). Images were edited by the author to identify features pertinent to the study. The next image (figure 7) is an aerial photograph from 1937 which shows the project area with a red polygon. The Rincón TUC is shown with a yellow line to assist in orienting the reader. The

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project parcel is mostly covered in grasses and some trees or palms. Image was obtained in the Department of Transportation and Public Works (DTOP) archives in 2024.

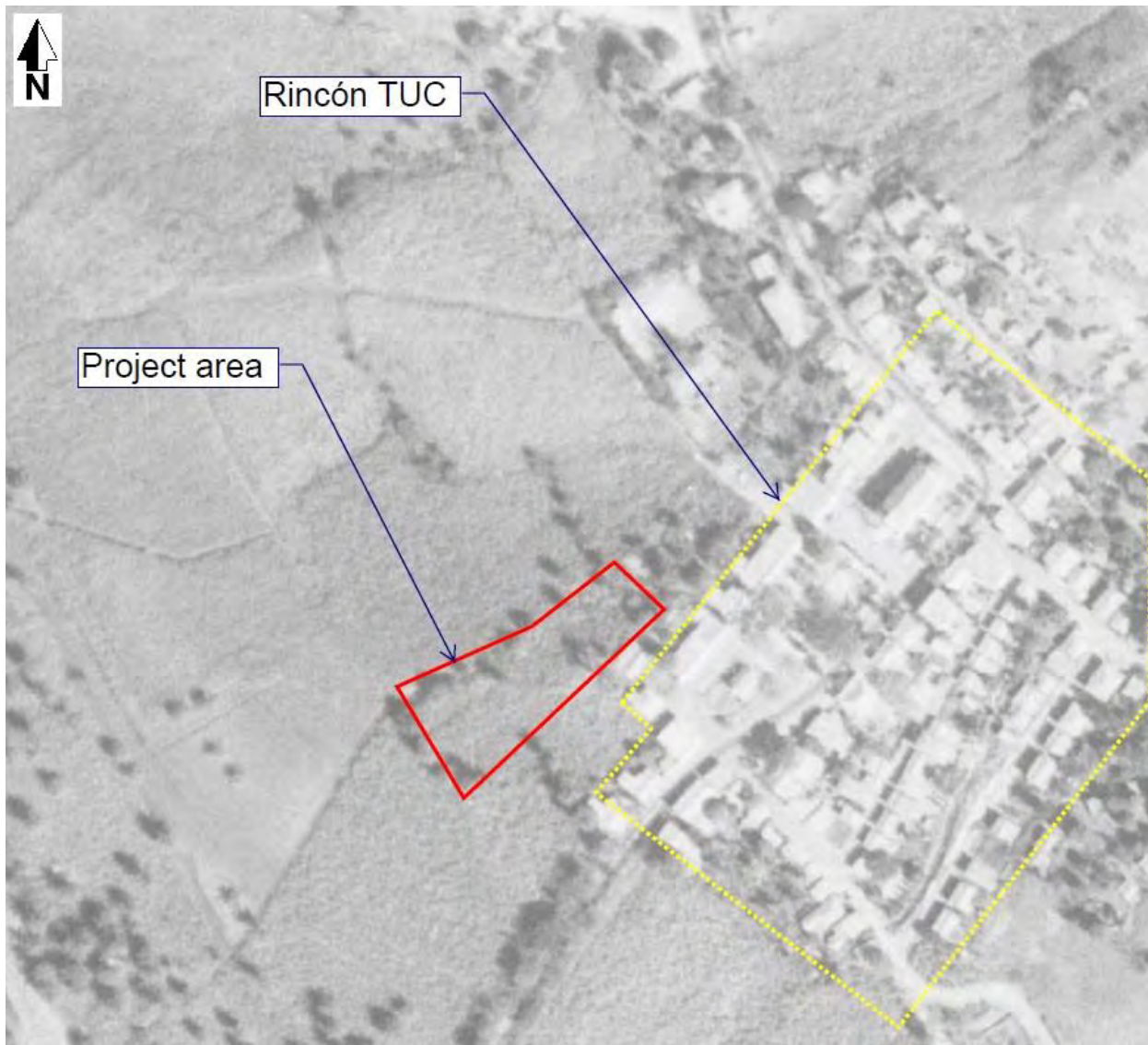



Figure 7. 1936 aerial picture from the Autoridad de Carreteras de PR archives showing the Project area (red polygon), and the Rincón TUC (yellow line). Historic aerial photography graphic scale not available. Source: DTOP archives, 2024.

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The next chart is a USGS Rincón topographic map from 1941 which shows the project area west of the Rincón TUC (figure 8). No structures or features can be observed within the project lot. A railroad track is located west of the project parcel.

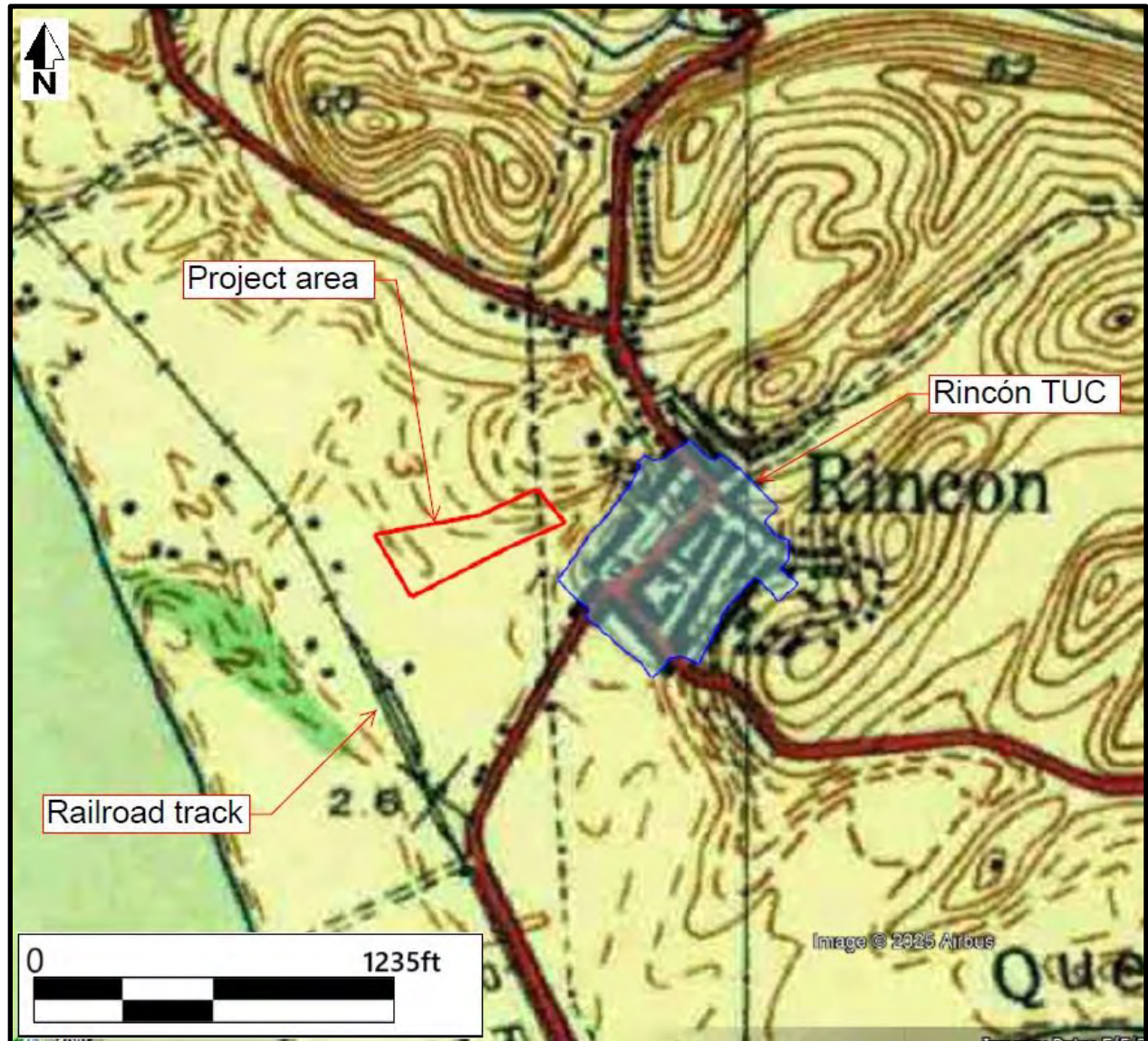



Figure 8. 1941 USGS Topographic Map showing Rincón TUC and Project area perimeter (red polygon). No structures or features can be observed within the project lot. Railroad track located west of the project site.

Source: <https://ngmdb.usgs.gov/topoview/viewer/#13/18.4431/-66.0730>

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The following USGS Rincón topographic map from 1955 (edited in 1958) depicts the western section of the project area being part of a larger coconut palm orchard growing along the Rincón coast (figure 9). No structures or other features can be observed within the project lot.

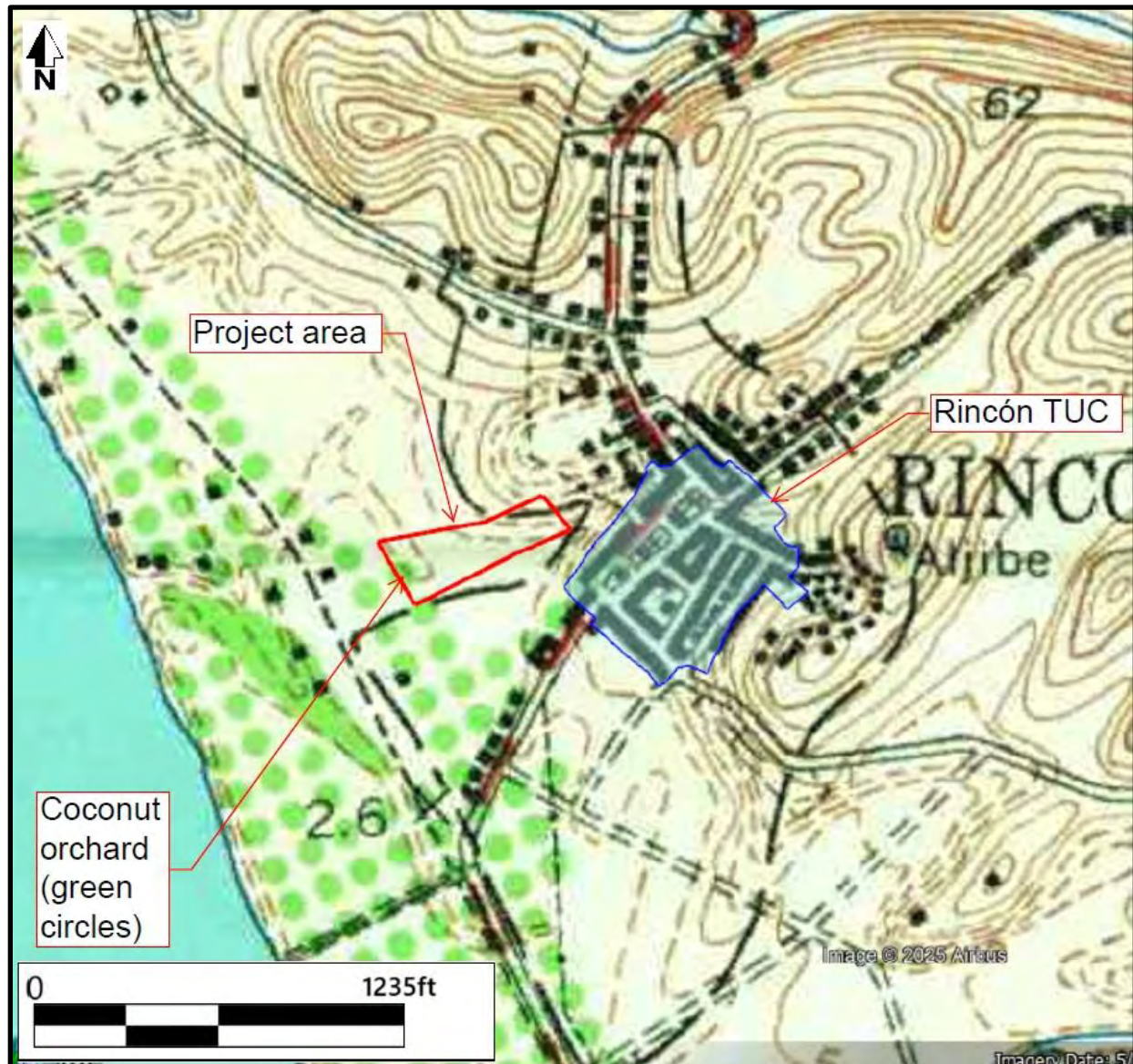



Figure 9. 1955 (ed. 1958) Rincón USGS Topographic Map showing coconut groves along the coast. A portion of these groves is located within the western section of the project parcel.


Source: <https://ngmdb.usgs.gov/topoview/viewer/#13/18.4431/-66.0730>.

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A 1963 aerial photo of the Rincón area shows the project parcel bordered to the west by a large coconut palm orchard (figure 10). No structures or other type of development can be observed within the project area. A new baseball park can also be seen north of the lot.



Figure 10. 1963 aerial photo showing project area (red polygon). A coconut orchard can be observed along the coast and the western border of the project lot, and a baseball park is located to the north. Source: DTOP Archives, 2024.

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A 1966 (edited 1969) USGS Rincón topographic map shows new development south, near the project parcel (figure 11). No development is observed within the project area.

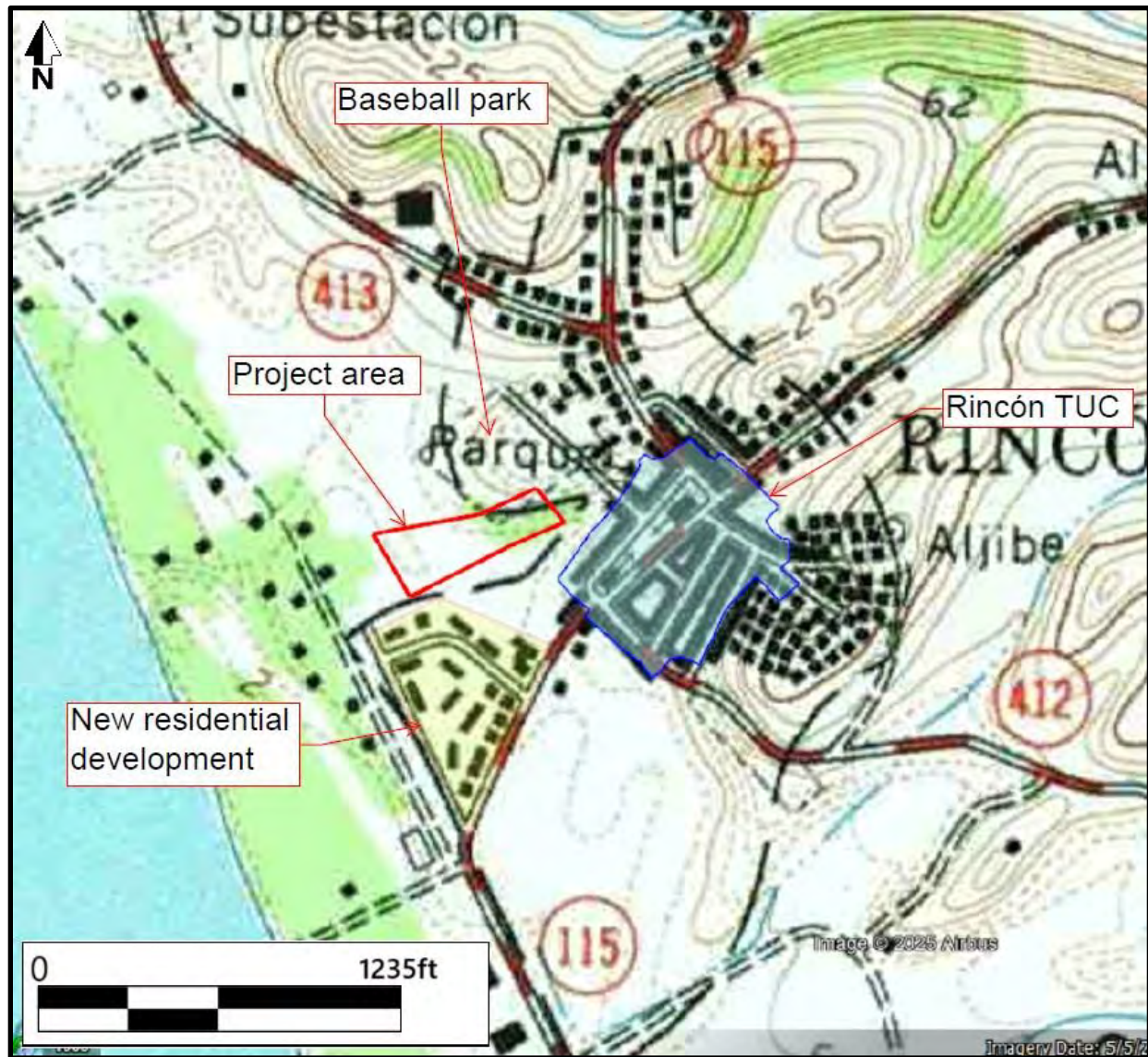




Figure 11. 1966 (edited 1969) Rincón USGS Topographic Map showing new development (light yellow polygon) south of the project area (red polygon).
 Source: <https://ngmdb.usgs.gov/topoview/viewer/#13/18.4431/-66.0730>.

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The next aerial photo from 1993 was obtained through Google Earth Pro in 2024 (figure 12). The image shows the project area covered in vegetation. Urban development can be observed to the south of the lot, specifically the Santa Rosa public residential development.



Figure 12. 1993 Google Earth Pro aerial imagery showing project area covered in vegetation. New urban development surrounds the project lot to the south and west.

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The following satellite image (figure 13) was obtained through the CRIM digital archives in 2024. The image was originally taken in 1998 and shows the municipal parking, Ojo de Agua Street, Progreso Street for the first time. Also visible is the canal within the project area, and a dirt road in the southwest corner of the lot. Most of the vegetation within the western half of the project lot was also removed.

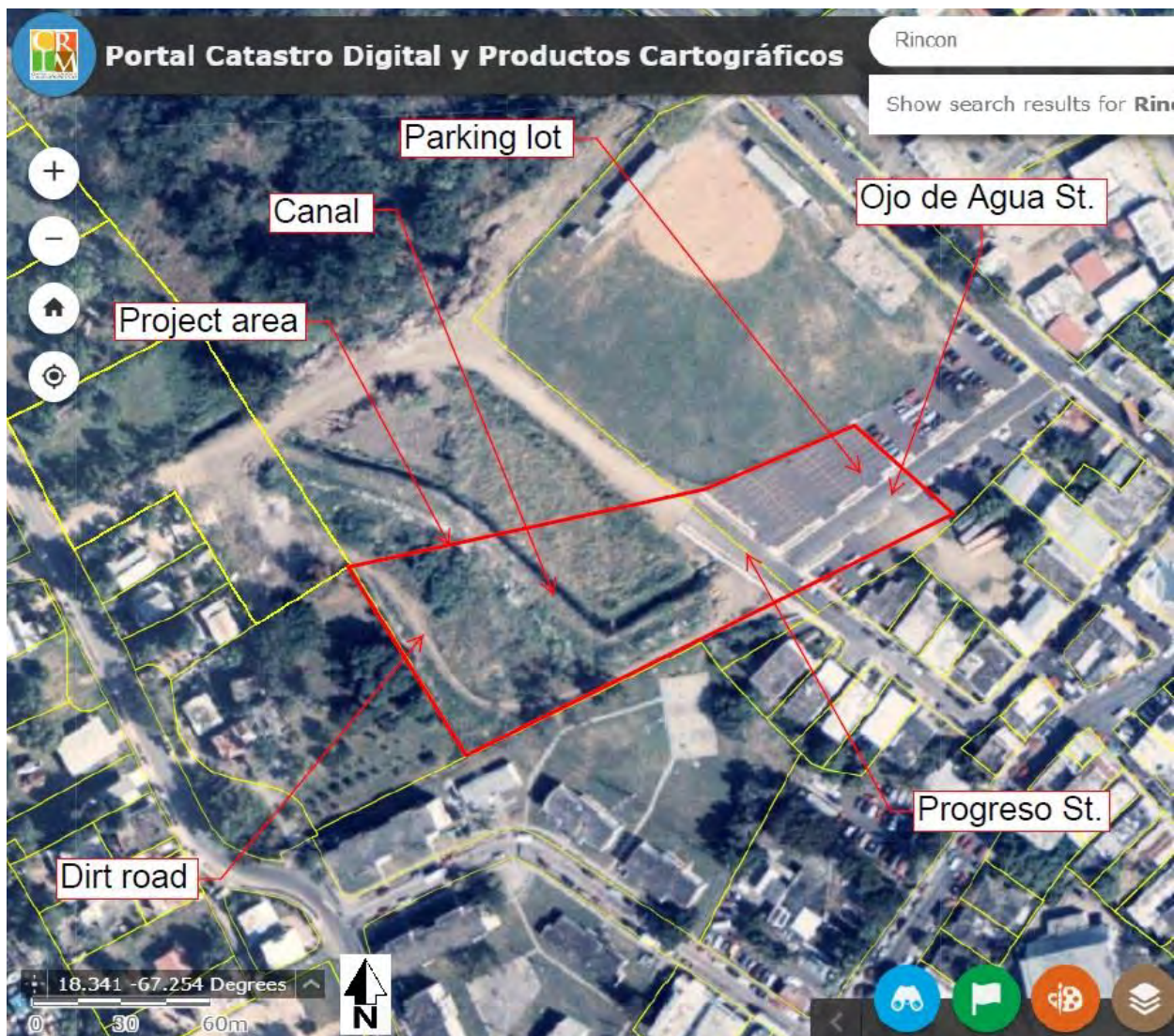



Figure 13. 1998 satellite imagery showing canal, dirt road, Progreso and Ojo de Agua streets and parking lot within the Project area (red polygon).

Source: <https://catastro.crimpr.net/cdprpc/>

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The following aerial photo from 2004 was acquired through Google Earth Pro and shows changes within and near the project area (figure 14). A new children's playground facilities are seen on the southern portion of the project lot for the first time.

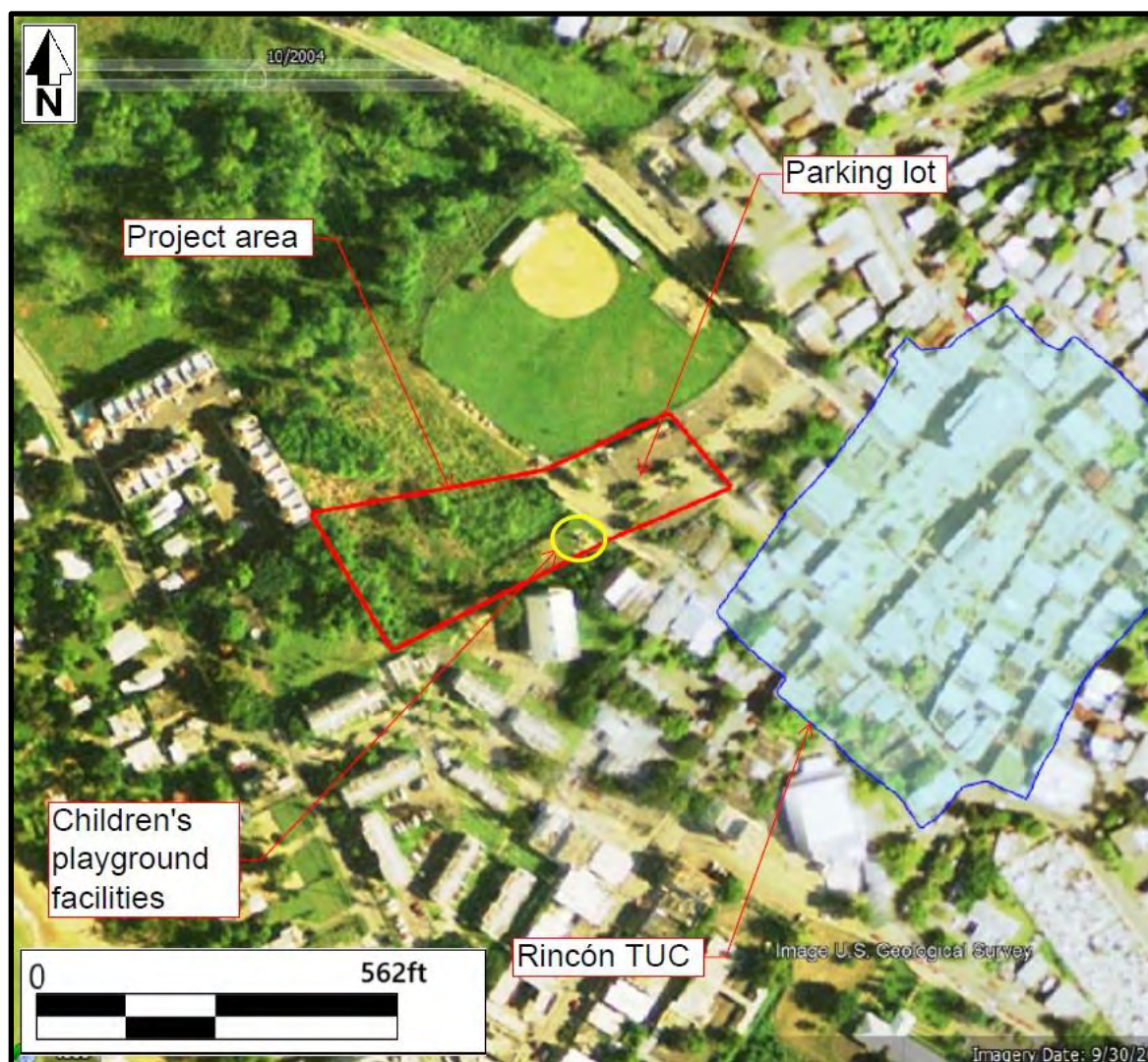




Figure 14. 2004 Google Earth Pro aerial imagery showing new children's playground facilities in the eastern corner of the project parcel.

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A 2018 Google Earth Pro aerial photograph shows some undetermined structures in the southwestern portion of the project parcel. The children's playground can still be seen in the southern section, and a portion of the existing parking lot in in the east of the lot (figure 15). The remaining area within the property is covered in dense vegetation.



Figure 15. 2018 Google Earth Pro aerial imagery showing undetermined structures in the southwestern portion of the project parcel. The children's playground can still be seen in the southern portion of the lot.

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Determination of sensitivity


No historic or prehistoric sites were identified within a ¼ mile radius around the project parcel in the State Historic Preservation Office (SHPO) and Instituto de Cultura Puertorriqueña (ICP) archives. 15 cultural resources studies were identified in both the SHPO and ICP archives. Above ground historic structures documented in the SHPO and ICP archives and found within the study radius are discussed in the Architecture section of this report. Identified archaeological sites and positive cultural resources study perimeters are shown in figures 16-17.

Archaeological sites


No prehistoric or historic sites were identified in the SHPO and ICP archives within the ¼ mi study radius. 2 above-ground historic sites (RN-8 and RN-10) were identified within the study radius and will be discussed in the architecture section.

Cultural resources surveys

- A) ICP/CAT-RN-90-01-06.** Phase IA-IB archaeological survey, *Terrenos a desarrollarse*, prepared by Daniel Molina Feal in 1990. Negative results. A Section of the survey was performed within the perimeter of the project.
- B) ICP/CAT-RN-04-05-02.** Phase 1-A, *Remodelación de Estacionamiento Municipal Ojo de Agua*, prepared by Harry Alemán Crespo in 2004. Negative results. The survey was located 0.01 mi east of the project perimeter.
- C) ICP/CAT-RN-04-05-01.** Phase 1-A, *Investigación Documental y Reconocimiento Preliminar del Proyecto Rehabilitación del Centro Urbano de Rincón*, prepared by Marisol J. Meléndez Maíz, 2004, positive results. Located 0.01 miles to the southeast of the perimeter. Endorsement letter by ICP dated July 6, 2004.
- D) ICP/CAT-RN-10-07-07.** Phase 1A-1B, *Rincón Health Center Inc.*, prepared by Fernando Alvarado Muñoz, 2010, negative results. Located 0.03 miles south.
- E) ICP/CAT-RN-14-08-02.** Phase 1A-1B, *Teatro de Rincón. Calle Progreso*, prepared by Adalberto Maurás Casillas, 2014, negative results. Located 0.03 miles east.
- F) ICP/CAT-RN-11-08-01.** Phase 1A, *Hotel Ojo de Agua*, prepared by Norma Medina Carrillo, negative results. Located 0.06 miles northeast.
- G) ICP/CAT-RN-92-02-02.** Phase 1A-1B, *Centro de Salud Familiar*, prepared by Juan González Colón, negative results. Located 0.17 miles south-southeast.

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- H) **ICP/CAT-RN-96-02-06.** Phase 1A-1B, *Mejoras y Reconstrucción De La PR-115 Añasco – Rincón*, prepared by María A. Cashion Lugo, negative results. Located 0.17 miles south.
- I) **ICP/CAT-RN-05-05-05.** Phase 1A-1B, *Plaza del Mercado - Ventana al Mar*, prepared by Marisol Martínez Garayalde, negative results. Located 0.13 miles to the southwest.
- J) **ICP/CAT-RN-10-07-07.** Phase 1A-1B, *Rincón Health Center Inc.*, prepared by Fernando Alvarado Muñoz in 2010. Negative results. Located 0.03 mi southeast.
- K) **ICP/CAT-RN-14-08-02.** Phase 1A-1B, *Teatro de Rincón. Calle Progreso*, prepared by Adalberto Maurás Casillas, 2014, negative results. Located 0.03 mi east-northeast.
- L) **ICP/CAT-RN-11-08-01.** Phase 1A, *Hotel Ojo de Agua*, prepared by Norma Medina Carrillo in 2011. Negative results. Located 0.06 mi east-northeast.
- M) **ICP/CAT-RN-92-02-02.** Phase 1A-1B, *Centro de Salud Familiar*, prepared by Juan González Colón in 1992. Negative results. Located 0.17 mi southeast.
- N) **ICP/CAT-RN-96-02-06.** Phase 1A-1B, *Mejoras y Reconstrucción De La PR-115 Añasco – Rincón*, prepared by María A. Cashion Lugo in 1996. Negative results. Located 0.17 mi south.
- O) **ICP/CAT-RN-05-05-05.** Phase 1A-1B, *Plaza del Mercado - Ventana al Mar*, prepared by Marisol Martínez Garayalde in 2005. Negative results. Located 0.13 mi southwest.

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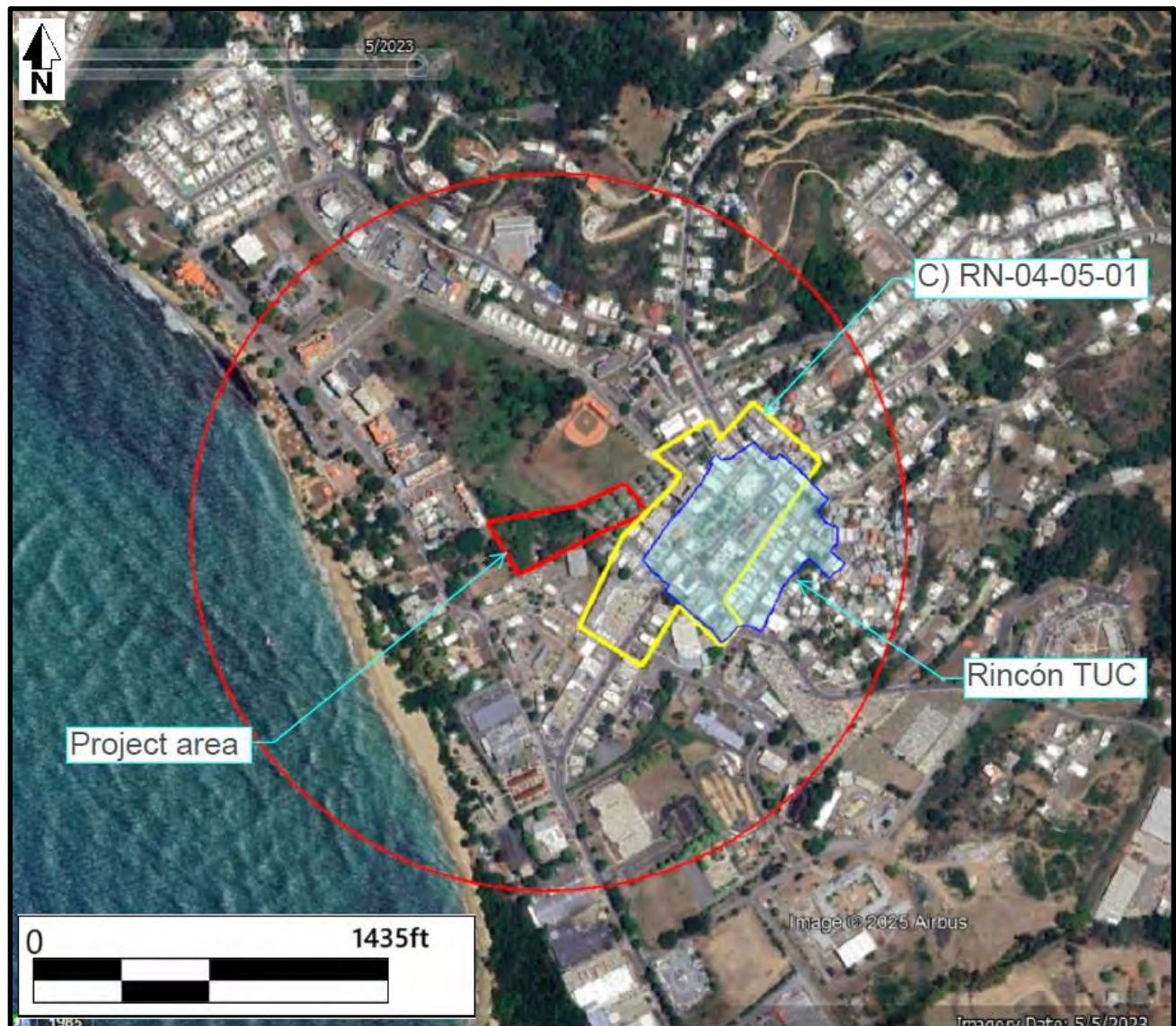



Figure 16. Aerial imagery showing sites and positive cultural resources survey (yellow polygon) identified in the ICP and SHPO archives. Project area is depicted with red polygon. Image source: Google Earth Pro.

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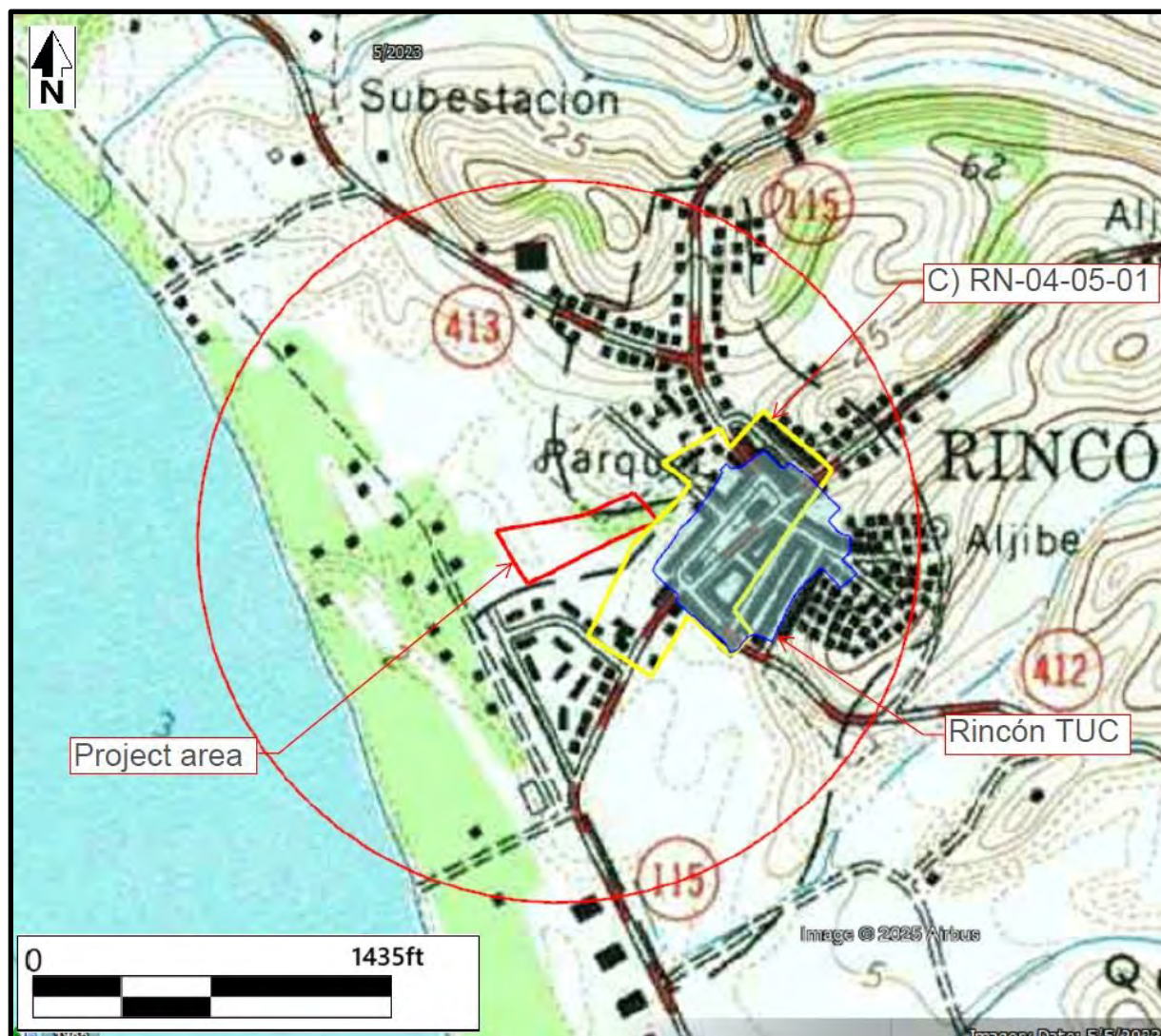



Figure 17. 1966 (ed.1969) USGS Topographic map showing sites and positive cultural resources studies (yellow polygon) identified in the ICP and SHPO archives. Project area is depicted with red polygon. Source: Google Earth Pro.

Site visit and surface reconnaissance

The site visit was performed by archaeologist Paul Dill on July 24th, 2024. Photographs taken during the visit (refer to pictures 1-31) are included in the photography section of this report.


The perimeter consists of an irregular rectangular-shaped area that includes the western portion of the existing municipal public parking lot located west of the Rincón TUC. The terrain

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is mostly flat with a slight inclination downward from east to west. A small stream formed by a local spring is located towards the center of the eastern part of the lot. Note that the name for the area is "Ojo de Agua", Spanish for water spring. A canal flows from east to west, but it takes a turn to the northwest halfway through the lot. This canal was dug between 1970 and 1998, according to the historic study included in this report. The perimeter of the western portion of the parcel is surrounded by a cyclone fence to the south, east and west, while the northern area is delimited by a barbwire fence. Inside the perimeter of the proposed project, near the southern fence to the public housing project, makeshift structures were observed, mostly for the raising of farm animals such as chickens, rabbits and other small animals. Inside the lot, no structures were found, and no traces of any activity other than livestock and farming were observed. High voltage power lines and their right of way passes near the middle of the lot but more to the west, from the north-northeast to the south-southwest.

Soil is consistent throughout the lot and consists mostly of a dark grayish brown sandy clay with a Munsell color of 10YR3/3 and 10Y/R3/2. Near the canal of the small creek that passes through the lot, there are swampy conditions typical of areas associated to water bodies. The vegetation of the lot consists mostly of tall grass and acacia trees with different varieties of palm trees at the western section of the lot, among other plants such as vines and small shrubs. The surrounding areas are: to the south, the public housing complex (photos 1-8); to the east, the municipal public parking lot and baseball field (photos 9-14); to the west, a privately owned lot (photos 17-19); and to the north, a livestock farm. A "walk-up" style residential complex known as Chalet del Mar Condominium is observed to the northwest (see photos 15-16 and 20). The Eastern portion of the project area includes the western half of the Rincón municipal parking and the Progreso and Ojo de Agua streets. A small park is located in the southwest section of the parking lot, while a large Ceiba tree and some benches can be observed in the northwest portion of the same parking area.

No historical or archaeological features were identified on the surface within the project area.

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Identification of Historic Properties - Architecture

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 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 the boundaries of the Traditional Urban Center of Rincón (See Figure 32) but inside the 0.25-mile research zone. In addition, the investigation has identified 5 NRHP-eligible properties, no NRHP-listed properties, and no locally designated properties identified in the 0.25-mile radius based on the required research at SHPO and ICP.

Within a 0.25-mile radius from the project APE, the following historically significant properties are identified:

- A. Santa Rosa de Lima Church (**Eligible**) 0.12 miles Northeast
Coordinates: 18.3401, -67.2502

- B. Plaza Pública Rincón (**Eligible**) 0.09 miles Northeast
Coordinates: 18.3397, -67.2506


- C. Rincón Traditional Urban Center (**Eligible**) 0.05 miles East

- D. Old Santa Rosa Pharmacy (**Eligible**) 0.12 miles East
Coordinates: 18.3398, -67.2500

- E. American Period Building (**Eligible**) 0.10 miles Northwest
Coordinates: 18.3407, -67.2543

Historic Context (architecture):

Rincón, located on the western coast of Puerto Rico, is renowned for its rich history, vibrant culture, and natural beauty. Officially founded in 1771, the town's history dates back to the Taíno era, when the region was inhabited by Indigenous peoples. With its strategic coastal location, Rincón became a vital center for fishing, trade, and agricultural activities during the Spanish colonial period. Over the years, the town has evolved into a renowned surfing destination, attracting visitors from around the world. Historically, Rincón's economy was shaped by agriculture, with coffee, sugar, and fruits as its main products. However, the mid-

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20th century saw a shift towards tourism as the town capitalized on its stunning beaches and waves.

The urban center of Rincón reflects its historical development, marked by a mix of traditional and modern architecture. The town plaza, a central gathering place for the community, is surrounded by significant landmarks, including the Parroquia Santa Rosa de Lima, a Catholic church that has been a spiritual and cultural cornerstone since the town's establishment.

Topographic maps and historical records illustrate the town's urban expansion, particularly from the mid-20th century, when tourism growth spurred the development of residential and commercial sectors. Despite this growth, Rincón has maintained its small-town charm, balancing modernization with preservation of its natural environment. The community has adapted to its changing economic landscape while remaining deeply connected to its cultural and historical roots. Today, Rincón stands as a unique blend of history, nature, and contemporary life, attracting both locals and visitors seeking its serene and vibrant ambiance.

References:

1. Puerto Rico Encyclopedia. (n.d.). *Rincón*. Fundación Puertorriqueña de las Humanidades. Retrieved from <https://enciclopediapr.org>
2. Discover Puerto Rico. (n.d.). *Rincón: The Surfing Capital of the Caribbean*. Retrieved from <https://www.discoverpuertorico.com>

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Determination


The following historic properties have been identified within the APE:

- Direct Effects:
 - No historic properties are present within the Direct APE.
 - No pre-contact or historic sites are present within the Direct APE.

- Indirect Effects: Architecture.
 - Even though there are no buildings officially listed on the National Register of Historic Places (NRHP) within the 0.25-mile research zone, the following NRHP-eligible properties are located within this area: the Santa Rosa de Lima Church, the Plaza Pública de Rincón, the Traditional Urban Center of Rincón, the Old Santa Rosa Pharmacy, and an American Period building.

Based on the results of the historic property identification efforts, the Program has determined that the proposed project has the potential to not adversely affect the Rincón Traditional Urban Center, which is eligible for listing under the National Register of Historic Places (NRHP), along with four other NRHP-eligible properties located within the 0.25-mile research zone. Although these historic resources are in proximity to the project area, the proposed site is partially developed, has been altered over time, and lies outside the boundaries of the Traditional Urban Center, rendering it a non-contributing element. The project will not introduce visual, atmospheric, or noise elements that would diminish the integrity or character of the eligible properties, and its scale and nature are compatible with the existing urban context. As such, the potential effects of the undertaking do not meet the threshold of an adverse effect under Section 106 of the National Historic Preservation Act.

Regarding archaeology, the general area is deemed as sensitive to the possible presence of archaeological remains. There are two important prehistoric sites located 0.39- and 0.36-miles Northwest of the project area (RN-1 and RN-2). However, a cultural resource survey completed by Daniel Molina Feal in 1990 which includes the project area was negative to the presence of archaeological remains, with all of the shovel test pits completed within the current project area having negative results. Added to that, the surface reconnaissance did identify that most of the area has been impacted in the past by urban development. Therefore, existing information points out that although the general area has high sensitivity, within the project area there is a low probability of affecting a cultural resource. The proposed project should have No Adverse Effect over any historic properties, as per the best available data.

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Recommendation

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):
- 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:	
<input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



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Project (Parcel) Location – Area of Potential Effect Map (Aerial)

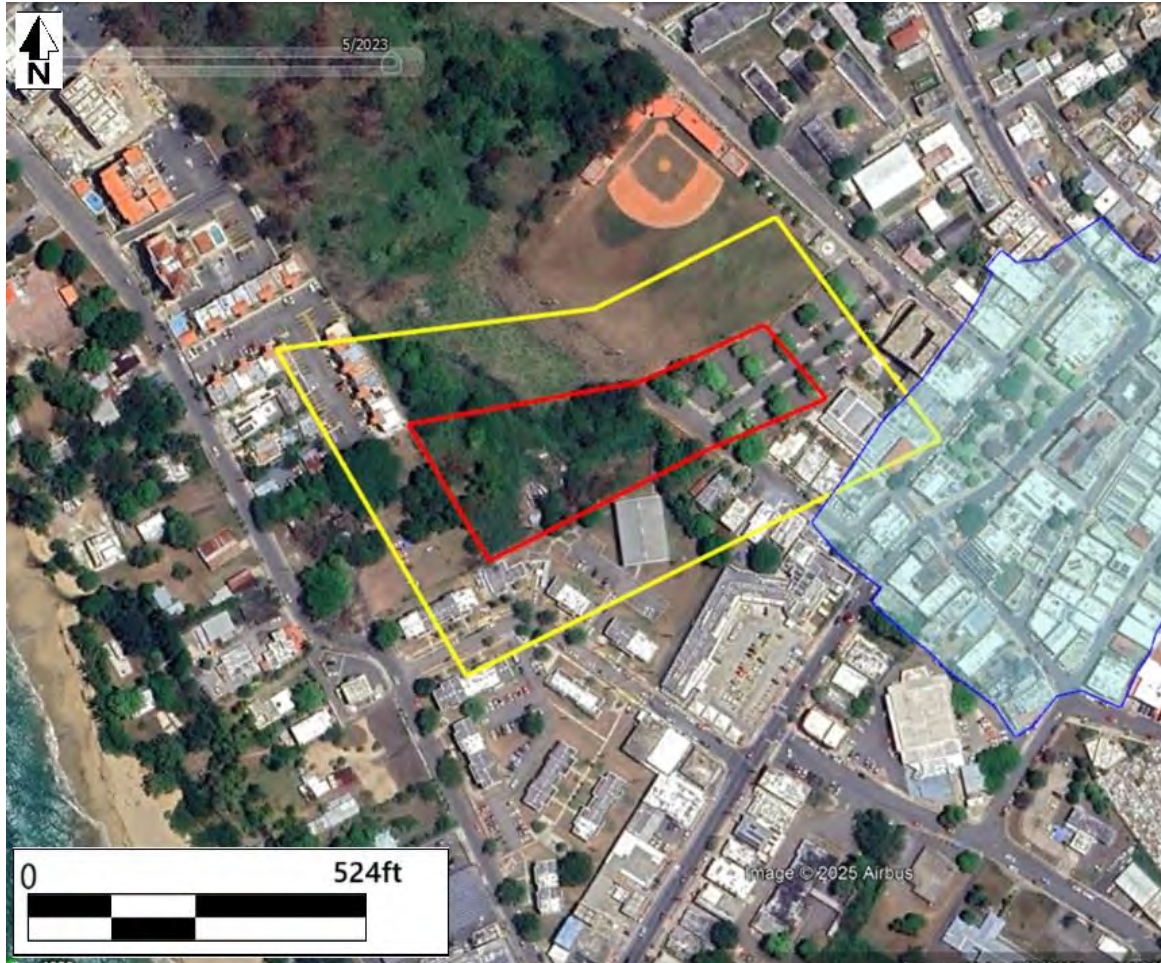


Figure 29

Aerial imagery showing location of the direct APE with red polygon, Indirect APE with yellow polygon, and the Traditional Urban Center of Rincon Boundaries with blue.

Image source: Google Earth Pro

**PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
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GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

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Project (Parcel) Location - Aerial Map



Traditional Urban Center of Rincon Boundaries with green.

Image source: Google Earth Pro

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Project (Parcel) Location - USGS Topographic Map



USGS topographic map showing location of direct APE with red polygon.

Image source: <https://ngmdb.usgs.gov/topoview/viewer/#15/18.3364/-67.2530>

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Project (Parcel) Location – Soils Map



Figure 34

Soil type legend:

Ig – Igualdad Clay.

UI – Urban land.

Image and information source:

<https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

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DEPARTMENT OF HOUSING

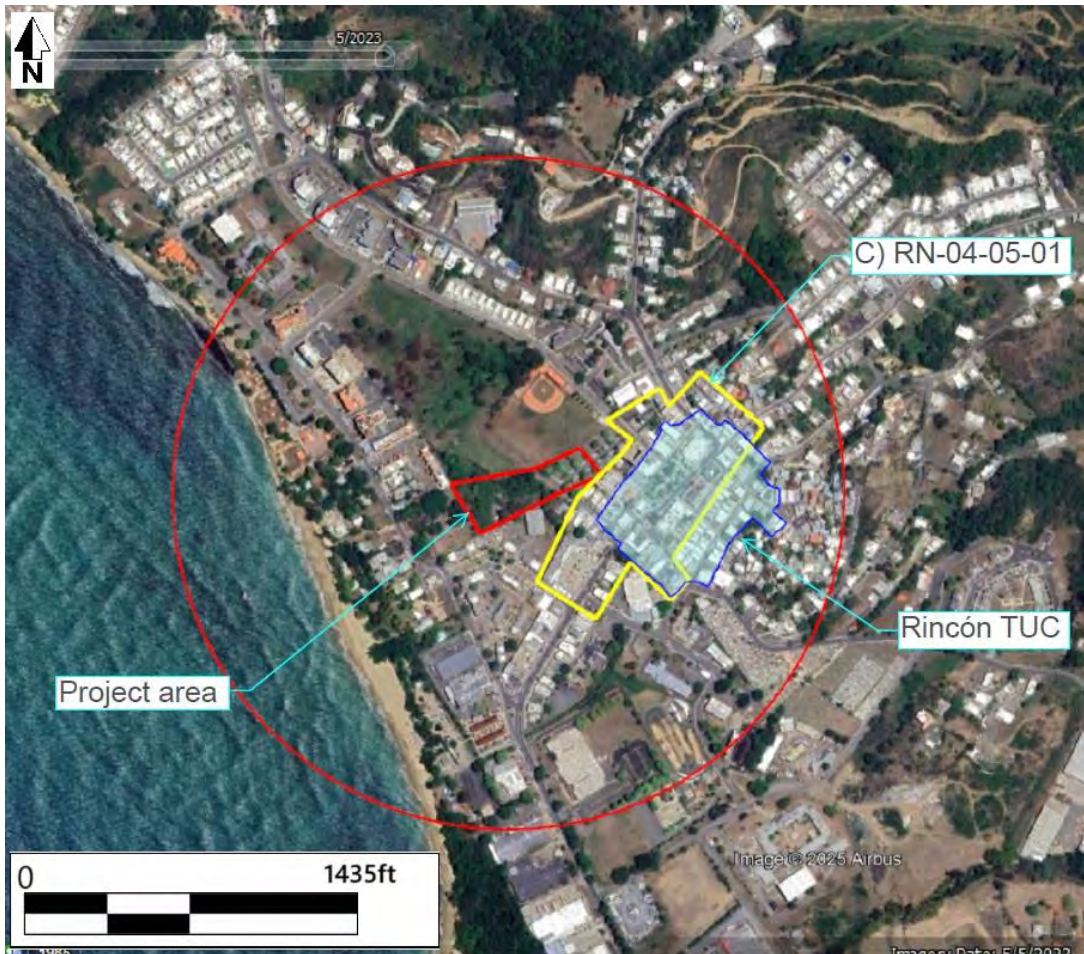
Subrecipient: Municipality of Rincón

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Project Name: Estacionamiento Urbano

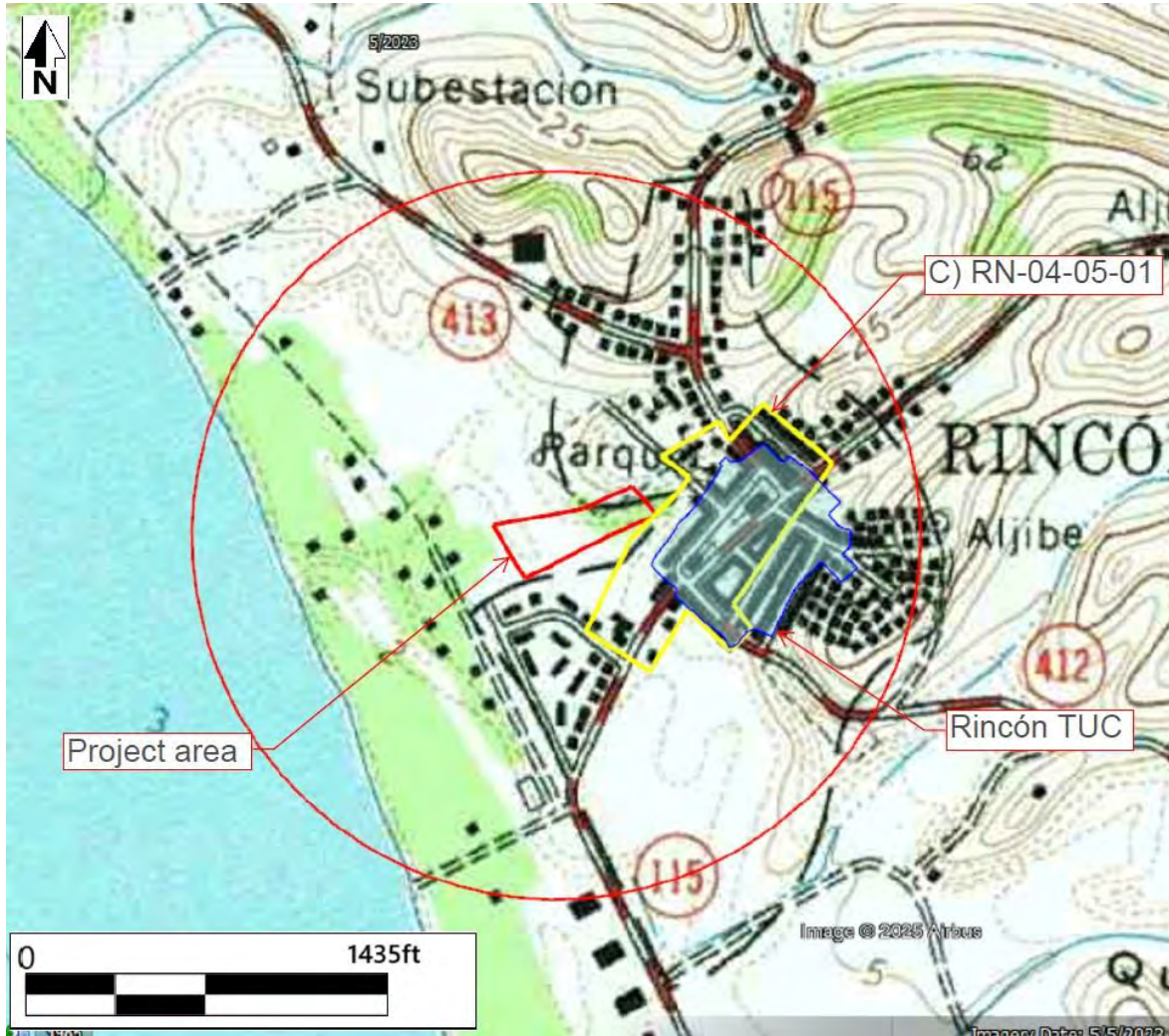
Project (Parcel) Location with Previous Investigations - Aerial Map



Source: Google Earth Pro

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**Project (Parcel) Location with Previously Recorded Cultural Resources
USGS Topographic Map**



Original map source:
<https://ngmdb.usgs.gov/topoview/viewer/#15/18.3364/-67.2530>

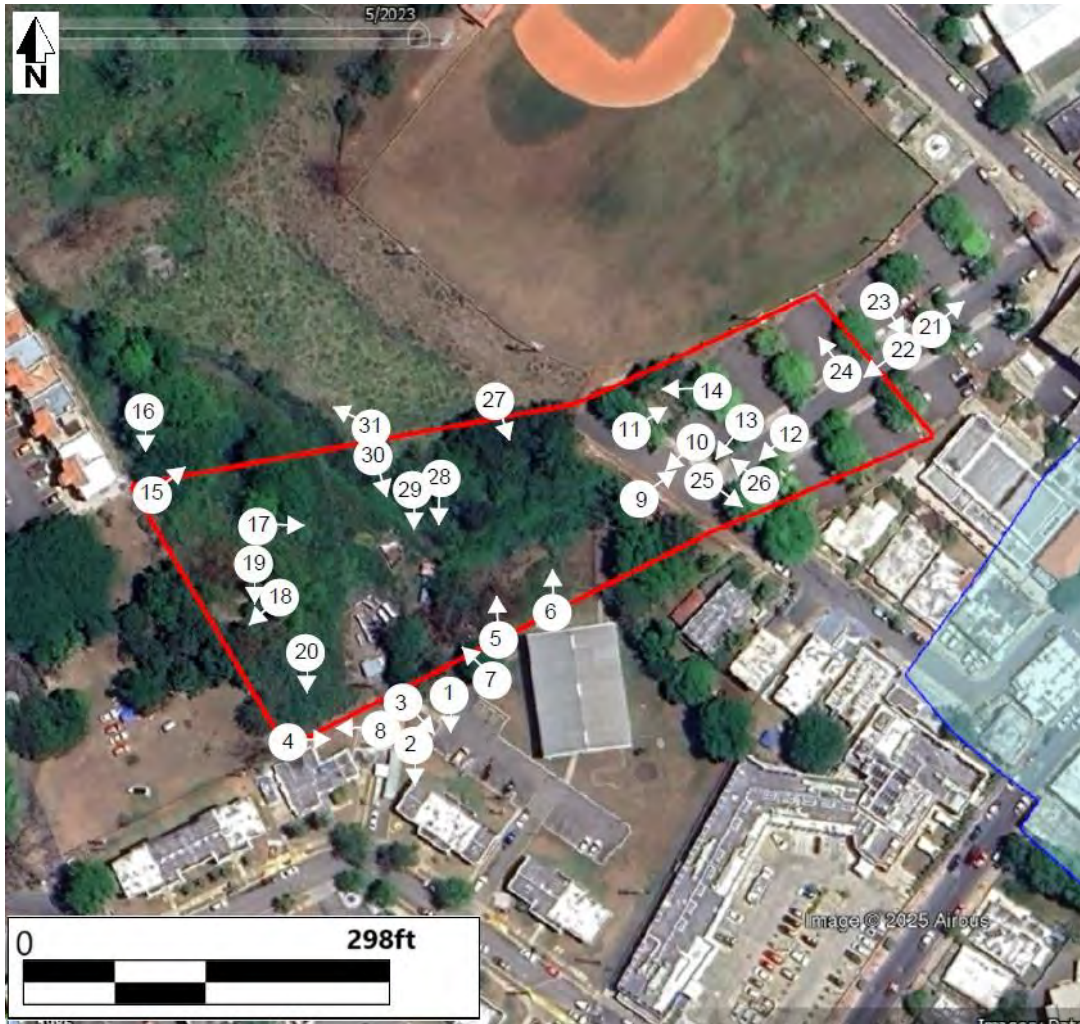
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Photograph Key



White circles with arrows show direction and number of each photograph taken within or near the project area (red polygon).

Image Source: Google Earth Pro


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Photo #: 1	Description (South): View from north to south of the lot towards Residencial Santa Rosa.
Date: 7/24/24	



Photo #: 2	Description (South): View from north to south of the lot towards Residencial Santa Rosa.
Date: 7/24/24	


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Photo #: 3	Description (East): View to the Residencial Santa Rosa from the southern limit of the lot (cyclone fence) facing east-southeast.
Date: 7/24/24	



Photo #: 4	Description (East): View of the southern limits of the lot (cyclone fence), west to east vantage point.
Date: 7/24/24	


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Photo #: 5	Description (North): View of the southwestern limit of the lot, south to north point of view. Yellow concrete drainage system at the center-left of the photo (between cyclone fence and metal post).
Date: /24/24	



Photo #: 6	Description (North): Concrete drainage system located at the limit of the Residential Santa Rosa and the lot to be developed, near the basketball court. South to north vantage point.
Date: 7/24/24	


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Photo #: 7	Description (Northwest): View towards the southern limit of the lot, south-southeast to north-northwest vantage point, middle section of the limit. Area of makeshift structures described at the site visit paragraph above.
Date: 7/24/24	



Photo #: 8	Description (West): View towards the southern limit of the lot, facing northwest. Area of makeshift structures described at the site visit paragraph above.
Date: 7/24/24	


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Photo #: 9	Description (Northeast): View towards the existing municipal public parking lot, Ojo de Agua St. and Progreso St., facing west from the eastern limit of the lot.
Date: 7/24/24	



Photo #: 10	Description (Southeast): View towards Progreso St., northwest to southeast vantage point, cyclone fence is the limit of the eastern part of the lot to be developed.
Date: 7/24/24	


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Photo #: 11	Description (Northwest): View towards the baseball field and the end of Progreso St, the northeastern limit of the lot to be developed is behind the white car, south to north vantage point. Side walk and castor bean (<i>ricinus communis</i>) bushes are part of the lot.
Date: 7/24/24	



Photo #: 12	Description (Southwest): View of the southeastern limit of the lot to be developed, Progreso St, cyclone fence is the limit of the lot. Picture taken from Ojo de Agua St. corner facing southwest.
Date: 7/24/24	


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Photo #: 13	Description (Southwest): View towards the eastern limit of the lot to be developed. Cyclone fence and castor bean (<i>ricinus communis</i>) bushes are part of the lot. Facing southwest.
Date: 7/24/24	



Photo #: 14	Description (West): View towards the northeastern limit of the lot to be developed. Northeastern corner of the lot behind the white car in line with the cyclone fence. Northern end of Progreso St. facing west.
Date: 7/24/24	


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Photo #:15	Description (Northwest): View towards the northwestern limit of the lot to be developed, at the end of the Chalet del Mar Condominium cyclone fence. Facing northwest.
Date: 7/24/24	



Photo #:16	Description (South): View towards the northwestern limit of the lot to be developed, at the end of the Chalet del Mar Condominium cyclone fence. North to south vantage point.
Date: 7/24/24	


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Photo #:17	Description (East): View towards the lot to be developed from the western limit, west to east vantage point, near the middle of the western limit.
Date: 7/24/24	



Photo #:18	Description (Southwest): View towards the western limit, east to west vantage point, near the middle of the western limit. Cyclone fence observed is the limit of the lot to be developed.
Date: 7/24/24	


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Photo #: 19	Description (South): View of the western limit of the lot, looking towards the south. Cyclone fence is the property limit.
Date: 7/24/24	



Photo #: 20	Description (South): View towards the southwestern end of the lot to be developed, north to south advantage point. Among the leaves of the acacia trees and tall grass. Residencial Santa Rosa can be seen through the vegetation.
Date: 7/24/24	


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Photo #: 21	Description (Northeast): View of parking lot's main entrance and corner of Ojo de Agua Street and Parque Street.
Date: 7/24/24	



Photo #: 22	Description (West-southwest): View of Ojo de Agua Street and western section of the Rincón municipal parking lot.
Date: 7/24/24	


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Photo #: 23	Description (South): Rear view of the Rincón Municipal Theater and a section of the municipal parking lot. Both properties are divided by a metal fence.
Date: 7/24/24	



Photo #: 24	Description (Northwest): View of baseball park located north of the project parcel, seen from the municipal parking. Lots are divided by a concrete and metal fence.
Date: 7/24/24	


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Photo #:25	Description (Southeast): View of park located on the southwest corner of the municipal parking lot (within the project perimeter). The recreation space has a concrete floor and benches, a trash bin, a lamp post and a bollard (all made of metal).
Date: 7/24/24	

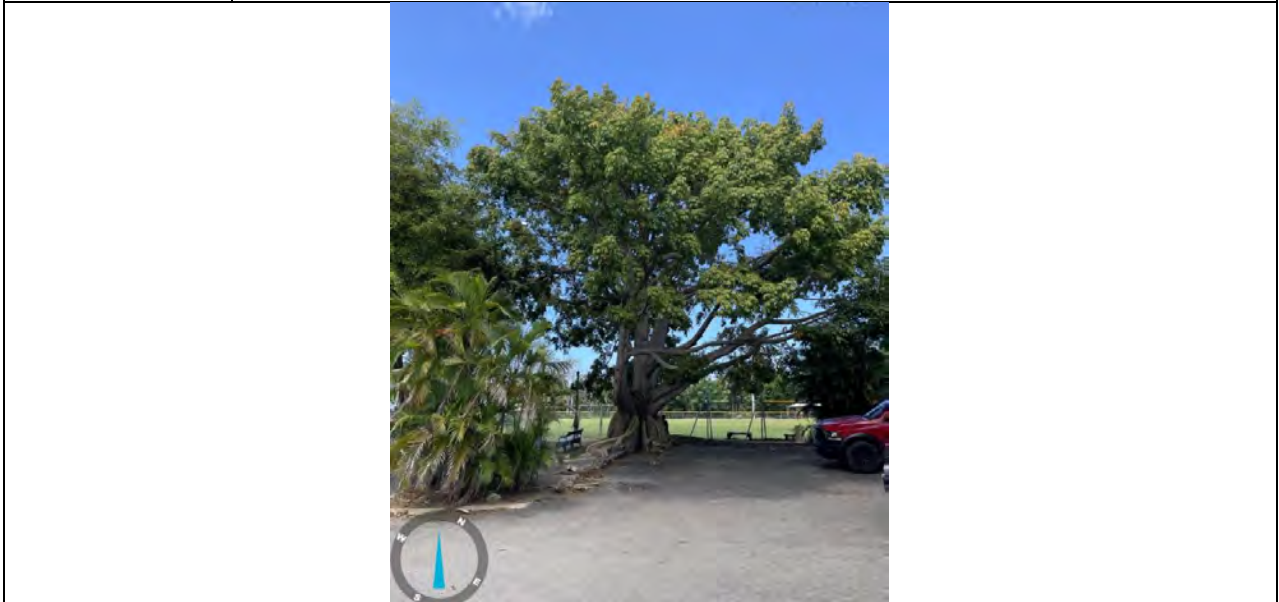


Photo #:26	Description (Northwest): Ceiba tree located in the northwest section of the municipal parking lot. Some benches can be observed under the trees' canopy.
Date: 7/24/24	



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Photo #: 27	Description (South): View of the northern perimeter of the central portion of the project lot, seen from the neighboring lot. Parcel is covered in trees and grasses.
Date: 7/24/24	



Photo #: 28	Description (South): View of the project area's northern northern perimeter from the neighboring lot. The Ojo de Agua canal can be seen through the vegetation flowing from east to northwest.
Date: 7/24/24	

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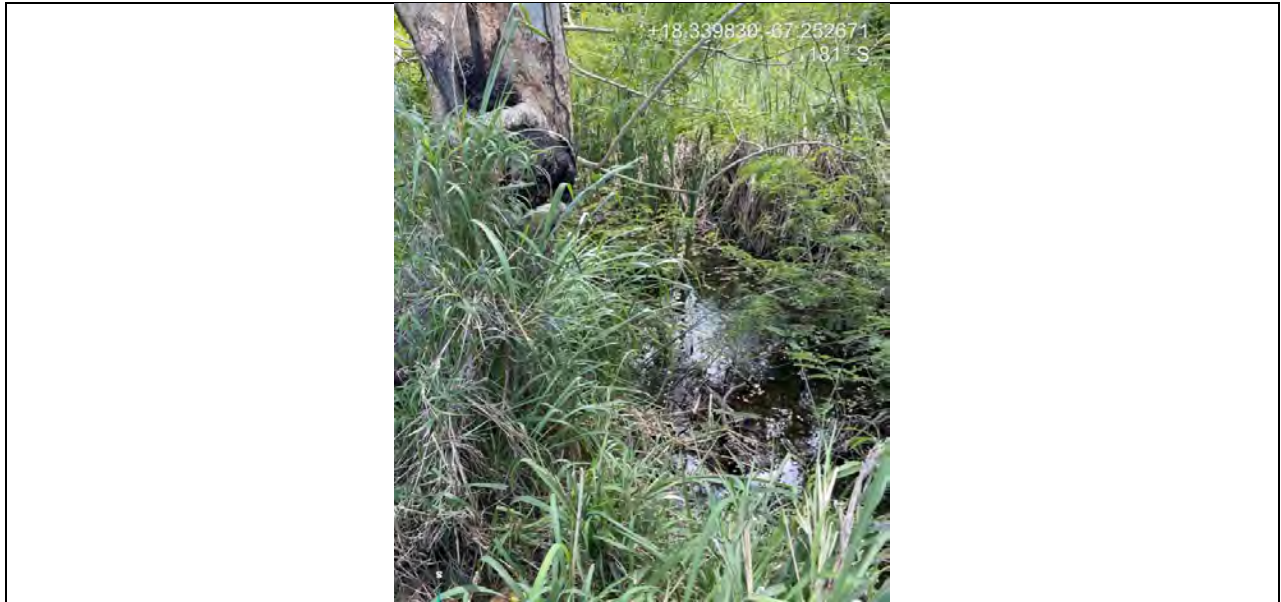


Photo #:29	Description (South): Closer view of the Ojo de Agua canal from a similar position to Photo #28.
Date: 7/24/24	



Photo #:30	Description (West-southwest): View of canal as it flows through the northern portion of the project area towards the neighboring lot to the north.
Date: 7/24/24	


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Photo #:31	Description (West-northwest): View of the canal flowing through the neighboring lot in a northwest direction.
Date: 7/24/24	

PR-CRP-000505

ESTACIONAMIENTO URBANO PROJECT

RINCÓN, PUERTO RICO

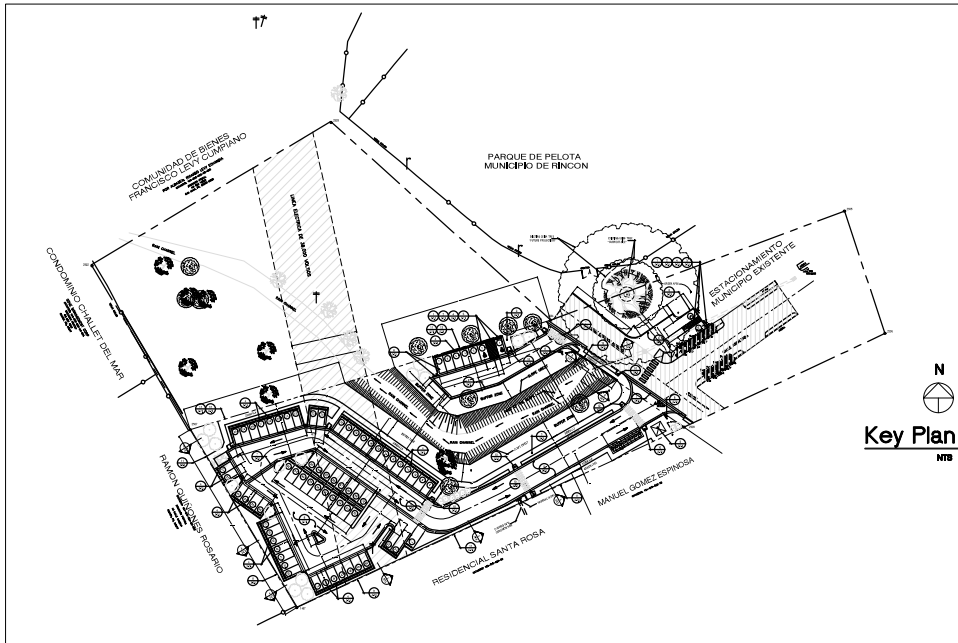
60% DESIGN DRAWINGS

CITY REVITALIZATION PROJECT

ESTACIONAMIENTO URBANO, PR-CRP-000505

Rincón, Puerto Rico, 00677

MUNICIPIO AUTONOMO DE RINCON
 HON. CARLOS D. LOPEZ BONILLA



SHEET

T-1 TITLE

EXISTING CONDITIONS

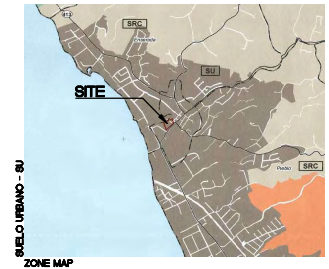
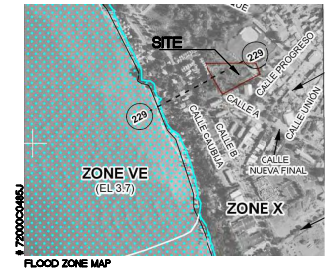
- ST-1 SURVEY AND TOPOGRAPHIC WORK
- ST-2 SURVEY AND TOPOGRAPHIC WORK - VIEW 1
- ST-3 SURVEY AND TOPOGRAPHIC WORK - VIEW 2
- ST-4 SURVEY AND TOPOGRAPHIC WORK - VIEW 3
- ST-5 SURVEY AND TOPOGRAPHIC WORK - VIEW 4
- ST-6 SURVEY AND TOPOGRAPHIC WORK - VIEW 5

DEMOLITION PLAN

- DP-1 DEMOLITION SITE PLAN
- DP-2 DEMOLITION NOTES

SITE

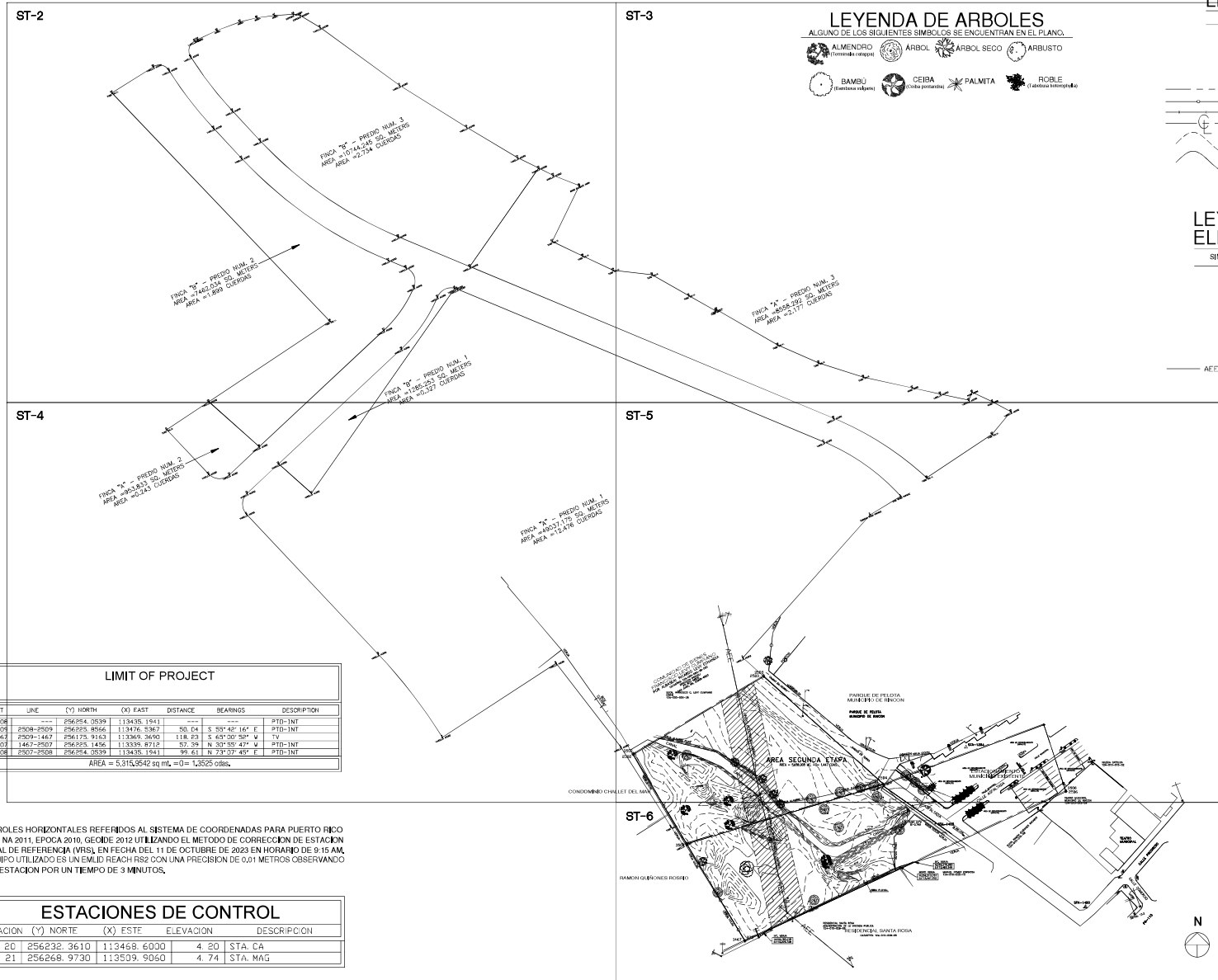
- SI-1 PROPOSED SITE PLAN
- SI-2 TYPICAL SITE DETAILS
- SI-3 PROPOSED GRADING SITE PLAN
- SI-4 GENERAL NOTES
- SI-5 LONGITUDINAL AND TRANSVERSAL PROFILES
- SI-6 PROPOSED STORM SEWER SITE PLAN
- SI-7 STORM SEWER PROFILES
- SI-8 STORM SEWER TYPICAL DETAILS
- SI-9 PROPOSED LIGHTING SITE PLAN



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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
NTS

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LEYENDA DE ARBOLES

ALGUNO DE LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

- ALMENDRO (Terminalia catappa)
- ARBOL (Cecropia peltata)
- ARBOL SECO
- ARBUSTO
- BAMBÚ (Bambusa vulgaris)
- CEIBA (Ceiba pentandra)
- PALMITA
- ROBLE (Licania hirsutiflora)

LEYENDA

LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
▲	CONTROL HORIZONTAL Y VERTICAL.
○	PUNTO COLINDANCIA.
1,000	ELEVACION.
■	PARRILLA PLUVIAL.
---	LMITE DE PROPIEDAD.
~	VERJA CICLON.
—	VERJA ALAMBRE PUAS.
—	LINEA DE CENTRO.
○	CONTORNOS A CADA 0.25 MTS.
○	CONTORNOS A CADA 1.00 MTS.
○	ELEVACION DE CONTORNOS.

LEYENDA FACILIDADES ELECTRICAS

LOS SIGUIENTES SIMBOLOS SE ENCUENTRAN EN EL PLANO.

SIMBOLO	DESCRIPCION
—	POSTE MADERA O ALUMINIO CON LUMINARIA.
—	POSTE MADERA O ALUMINIO ELECTRICO.
—	POSTE TELEFONICO.
—	TENSOR.
—	LINEA ELECTRICA (AEE)

LIMIT OF PROJECT

POINT	LINE	(Y) NORTH	(X) EAST	DISTANCE	BEARINGS	DESCRIPTION
2508	---	256254.3539	113435.1943	---	---	P10-INT
2509	2508-2509	256255.8564	113436.5967	50.04	S 59° 43' 16" E	P10-INT
1462	2509-1462	256175.9143	113369.3650	118.93	S 45° 00' 50" W	TV
2507	1462-2507	256335.1456	113339.8719	57.39	E 30° 15' 43" W	P10-INT
2508	2507-2508	256254.3539	113435.1943	99.61	N 73° 07' 45" E	P10-INT

AREA = 5,815,8542 sq. mts. = 0 = 1,3525 cuerdas.

CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS PARA PUERTO RICO NAD83, NA 2011, EPOCA 2010, GEODE 2012 UTILIZANDO EL METODO DE CORRECCION DE ESTACION VIRTUAL DE REFERENCIA WRS1, EN FECHA DEL 11 DE OCTUBRE DE 2023 EN HORARIO DE 9:15 AM. EL EQUIPO UTILIZADO ES UN EMULID REACH R52 CON UNA PRECISION DE 0,01 METROS OBSERVANDO CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES DE CONTROL

ESTACION	(Y) NORTE	(X) ESTE	ELEVACION	DESCRIPCION
20	256232.3610	113458.6000	4.20	STA. CA
21	256268.9730	113509.9050	4.74	STA. MAG

APPLIED ENGINEERING GROUP
ARCHITECTS & ENGINEERS
10-01, Maricao Road, Avenue 1866 Rio Piedras, PR 00924
Tel: (787) 762-2727 Fax: (787) 762-2728 Email: info@ae.com

ISSUE FOR REVIEW	DATE
ISSUE FOR REVIEW	11/02/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
ISSUE FOR REVIEW	11/06/2023
REVISION	01/16
REVISION	01/16
REVISION	01/17

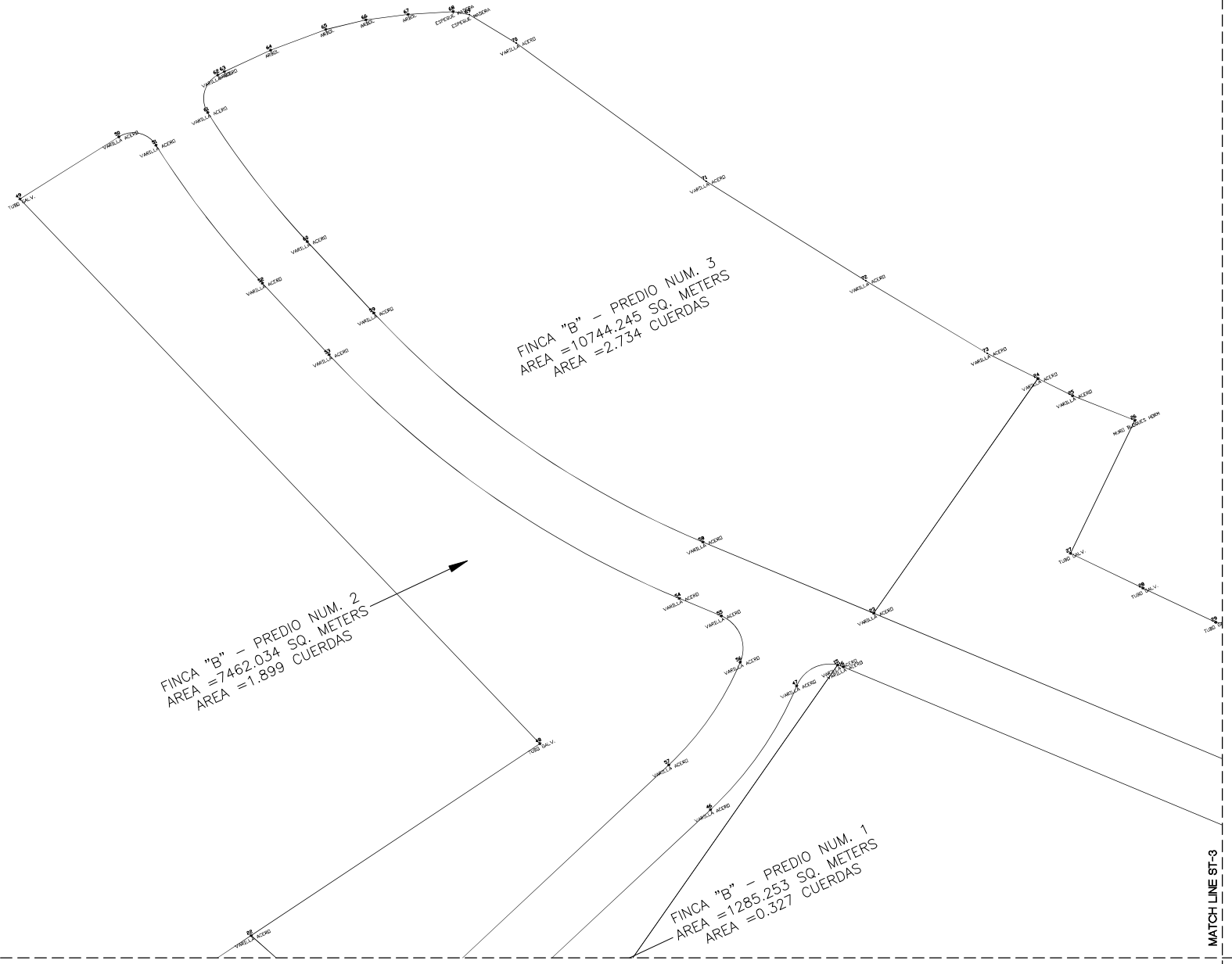
EXISTING CONDITION
SITE PLAN VIEW

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
MUNICIPIO DE RINCON
PR 00877

AS-BUILD PLAN
EXIST. COND.

MARCH 2024
ST-1

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
 SURVEY AND TOPOGRAPHIC WORK
 SCALE: 1/32' = 1'-0"



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NO.	DATE	REVISION
1	02/28/2024	ISSUE FOR REVIEW
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3	03/06/2024	ISSUE FOR REVIEW
4	03/06/2024	ISSUE FOR REVIEW
5	03/06/2024	REVISION
6	03/06/2024	REVISION
7	03/06/2024	REVISION
8	03/06/2024	REVISION
9	03/06/2024	REVISION
10	03/06/2024	REVISION
11	03/06/2024	REVISION
12	03/06/2024	REVISION
13	03/06/2024	REVISION
14	03/06/2024	REVISION
15	03/06/2024	REVISION
16	03/06/2024	REVISION
17	03/06/2024	REVISION

EXISTING CONDITION
 SITE PLAN VIEW
 VIEW 1

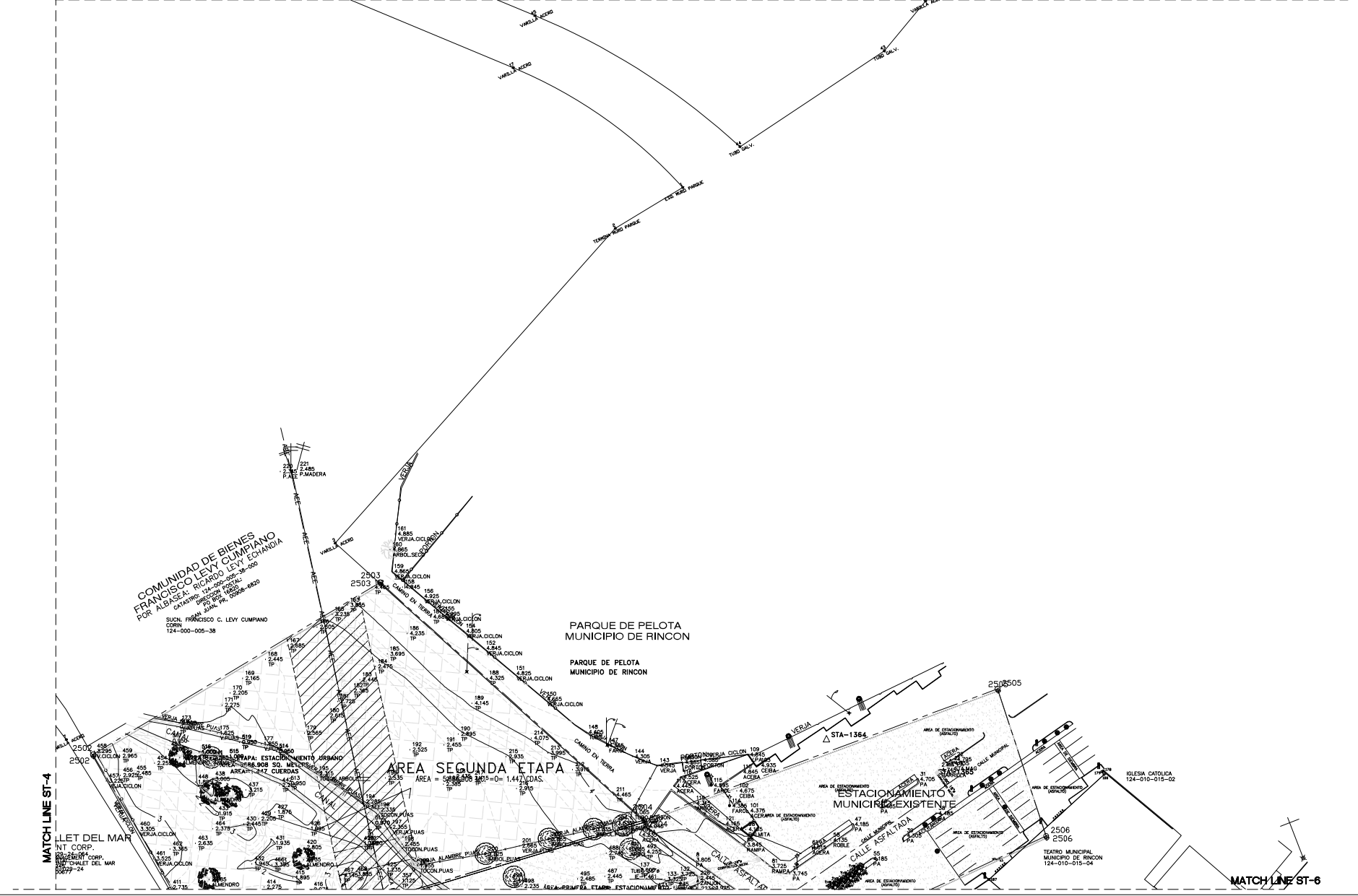
CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE FINCON
 PR 00877

AS-BUILD PLAN
 EXIST. COND.

DATE: MARCH 2024
 SHEET: ST-2

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
 SCALE 1/32' = 1'-0"

MATCH LINE ST-3



REVISION	DATE	BY
ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL
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ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL
ISSUE FOR REVIEW	08/20/2024	JL

EXISTING CONDITION
SITE PLAN VIEW
VIEW 4

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
MUNICIPIO DE RINCON
PR 00877

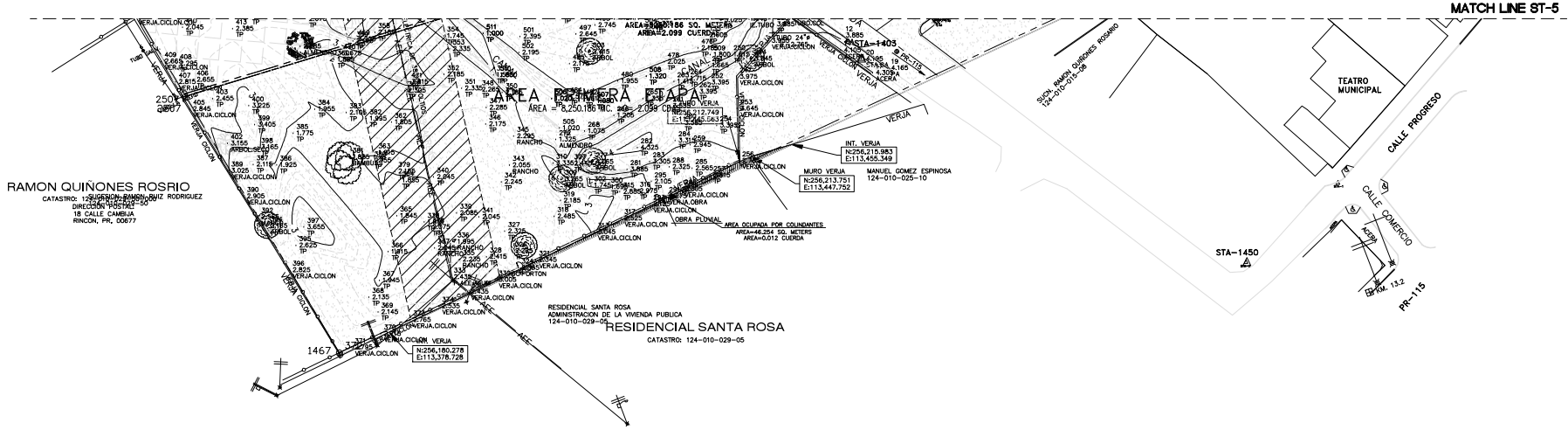
AS-BUILD PLAN
EXIST. COND.

DATE: **MARCH 2024**
 SHEET: **ST-5**

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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
SURVEY AND TOPOGRAPHIC WORK
SCALE 1/32' = 1-0"

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3	ISSUE FOR REVIEW	03/23/2024
4	ISSUE FOR REVIEW	03/23/2024
5	ISSUE FOR REVIEW	03/23/2024
6	ISSUE FOR REVIEW	03/23/2024
7	ISSUE FOR REVIEW	03/23/2024
8	ISSUE FOR REVIEW	03/23/2024
9	ISSUE FOR REVIEW	03/23/2024
10	ISSUE FOR REVIEW	03/23/2024

EXISTING CONDITION
SITE PLAN VIEW
VIEW 5

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
MUNICIPIO DE RINCON
PR 00677

AS-BUILD PLAN
EXIST. COND.

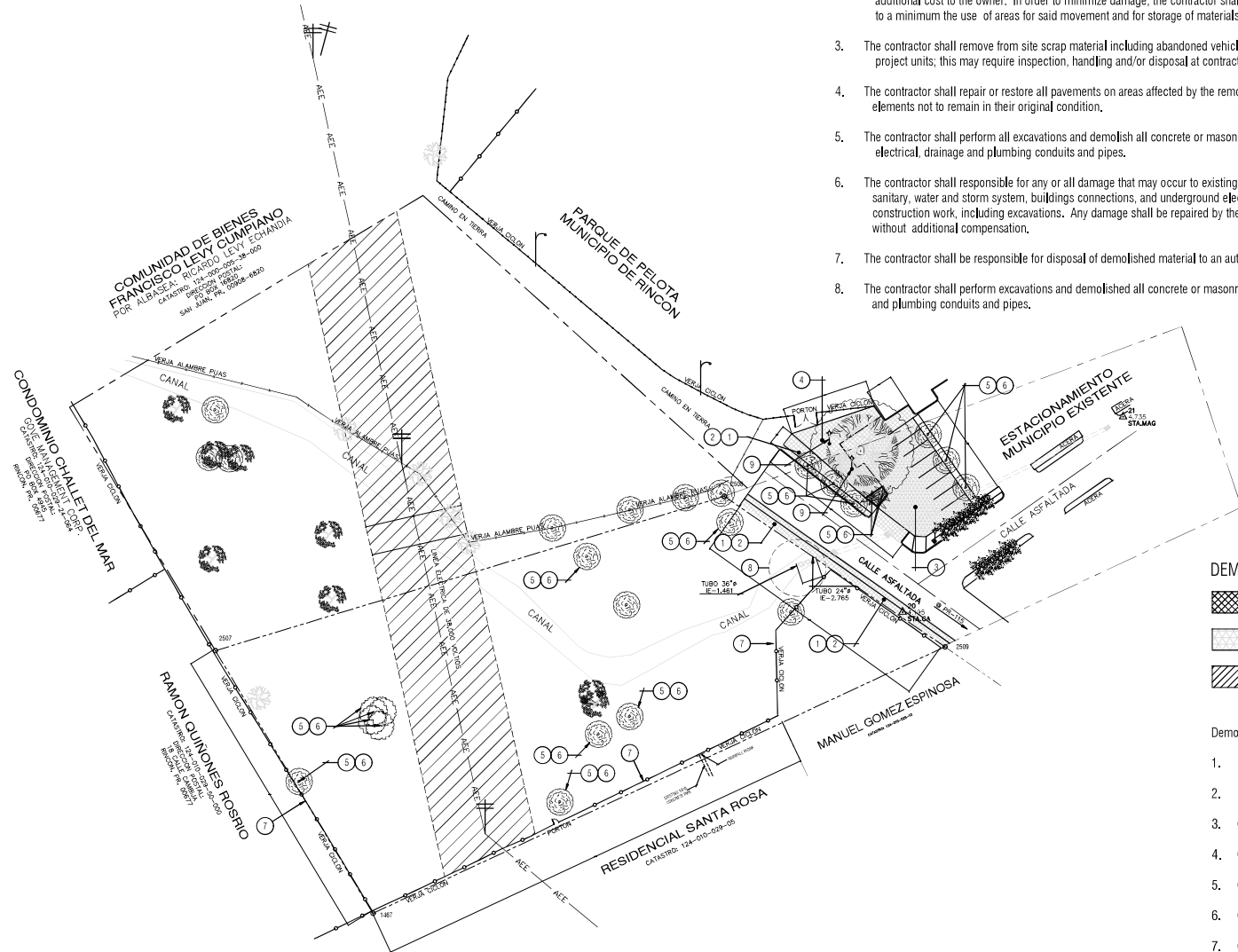
MARCH 2024
326
ST-6

APPLIED ENGINEERING GROUP
 ARCHITECTURAL ENGINEERING
 1000 Highway 100, Suite 100, Rincon, PR 00677
 TEL: 787-767-0007 FAX: 787-767-0008




ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
DEMOLITION SITE PLAN
 SCALE: 1/32" = 1'-0"

General Notes:

1. The contractor must visit and inspect the site before bidding in order to ascertain the extent of work required for the demolition and disposal of existing structures, and/or elements such as; tree, scrap materials, etc. Therefore the contractor must include all demolition required even if not shown on demolition drawings.
2. The contractor shall repair, clean and restore to finished grade as required all curbs, sidewalks and areas affected during the construction operation. Due to the heavy equipment movement for the stock of temporary construction materials. At no additional cost to the owner. In order to minimize damage, the contractor shall coordinate with the resident engineer and limit to a minimum the use of areas for said movement and for storage of materials and equipment.
3. The contractor shall remove from site scrap material including abandoned vehicles or any other element discarded within the project units; this may require inspection, handling and/or disposal at contractor's own expense.
4. The contractor shall repair or restore all pavements on areas affected by the removal of existing post transformers, pads or elements not to remain in their original condition.
5. The contractor shall perform all excavations and demolish all concrete or masonry walls necessary for the installation of electrical, drainage and plumbing conduits and pipes.
6. The contractor shall be responsible for any or all damage that may occur to existing underground utilities, such as: sanitary, water and storm system, buildings connections, and underground electrical facilities during demolition and construction work, including excavations. Any damage shall be repaired by the contractor within 12 hours of its occurrence without additional compensation.
7. The contractor shall be responsible for disposal of demolished material to an authorized dump site.
8. The contractor shall perform excavations and demolished all concrete or masonry walls as required for the installation of electrical, drainage and plumbing conduits and pipes.



DEMOLITION LEGEND:

-  INDICATE CONCRETE TO BE DEMOLISH & DISPOSE
-  INDICATE ASPHALT PAVEMENT TO BE DEMOLISH & DISPOSE
-  INDICATE EXISTING TO REMAIN

Demolition Notes:

1. Contractor shall Remove and Disposed Existing Sidewalks.
2. Contractor shall Remove and Disposed Existing Concrete Curbs.
3. Contractor shall Remove and Disposed Existing Asphalt Pavement.
4. Contractor shall Remove and Disposed Existing Concrete Slabs.
5. Contractor shall Remove and Disposed Existing Tree Stumps.
6. Contractor shall Remove and Disposed Existing Trees.
7. Contractor shall remove and disposed Existing Cyclone Fence.
8. Contractor shall Cut, Remove and Disposed Underground Drainage Pipe
9. Contractor shall Remove and Disposed the Existing Lighting Poles.

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ISSUE NO.	DATE	DESCRIPTION
1	03/08/2024	ISSUE FOR REVIEW
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7	03/08/2024	ISSUE FOR REVIEW
8	03/08/2024	ISSUE FOR REVIEW
9	03/08/2024	ISSUE FOR REVIEW

PROPOSED CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
 MUNICIPIO DE FINCON
 PR 00827

PROPOSED PROJECT

DATE: MARCH 2024
 DRAWN BY: DP-1

**ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
DEMOLITION NOTES**

GENERAL INSTRUCTIONS:

1. ANY ASPHALT THAT CAN BE RECYCLED SHALL BE RECYCLES AND REUSE ON SITE.
2. CONTRACTOR SHALL DISPOSE PROPERLY OF ALL NON-RECYCLABLE MATERIALS FROM DEMOLITION WORK, INCLUDING SITE GARBAGE ACCUMULATIONS, IN CERTIFIED LANDFILLS ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS. SEE AND COMPLY WITH HAZARDOUS MATERIALS ABATEMENT REMOVAL & DISPOSAL REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLECTED TO THE PROJECT PROPERTY OR ADJACENT PROPERTIES OR OTHER PROJECT AREAS TO REMAIN DURING THE DEMOLITION AND CONSTRUCTION PHASES. DAMAGED ITEMS SHALL BE RESTORED TO IT'S ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AND OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
4. DEMOLITION AND REMOVAL SHALL BE CONDUCTED IN A MANNER THAT ELIMINATES HAZARDS TO PERSONS, THE ENVIRONMENT AND PROPERTY IN THE PROJECT AND THE SURROUNDING AREA. THE CONTRACTOR SHALL PREVENT THE RELEAS OF LEAD CONTAINING DUST WHERE APPLICABLE INTO THE AIR AND SOIL.
5. FOR ALL DEBRIS AND SCRAP MATERIALS CONTRACTOR SHALL DISPOSE OF AS TO MAINTAIN THE PROJECT SITE & SURROUNDINGS FREE OF WASTE MATERIALS, ACCORDING TO MUNICIPAL, STATE & FEDERAL REGULATIONS.
6. THE CONTRACTOR SHALL MAINTAIN ALL STREETS FREE OF OBSTRUCTIONS AND CLEAN AT ALL TIMES. WHERE WASHING WITH WATER IS REQUIRED TO CONSTRUCT OR TO PREVENT HEALTH HAZARDS TO ADJACENT RESIDENTIAL AND COMMERCIAL AREAS, CONTRACTOR SHALL USE WATER TANK TRUCKS AT HIS OWN COST OR REQUEST A TEMPORARY CONNECTION FROM AN AVAILABLE AAA METER, AND CAN NOT BE TAKEN FROM PUBLIC FIRE HYDRANTS OR NEIGHBORS.
7. THE CONTRACTOR SHALL SUBMIT, PROCURE AND OBTAIN ALL NECESSARY DOCUMENTS AND PERMITS FROM THE OGPe AND ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO, SOLID WASTE AUTHORITY AND EPA, IN ORDER TO PROCEED WITH CONTRACTED WORK.
8. CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL EXISTING PROJECT PERMITS AND / OR SUBMIT AND OBTAIN NEW THE NEW PERMITS AT HIS OWN COST.
9. THE CONTRACTOR WILL NOTIFY AND OBTAIN PERMIT FROM THE PUBLIC SERVICE COMMISSION PRIOR TO EXCAVATION AND DEMOLITION WORK IN THE PROJECT. PERMITS AND APPROVALS CONCERNING PROJECT ACTIVITIES MUST BE SUBMITTED TO THE OWNER AND HIS REPRESENTATIVE BEFORE PROCEEDING WITH ANY CORRESPONDING WORK.
10. PRIOR TO PROCEEDING WITH PLANTING AND REFORESTATION WORK, CONTRACTOR MUST FOLLOW THE REQUIREMENTS OF THE DEPARTMENT OF NATURAL RESOURCES A PERMIT FOR CUTTING, PRUNING AND PLANTING.

11. UTILITIES AND OR SERVICES (CONSISTING BUT NOT LIMITED TO WATER, SEWER, ELECTRICITY, GAS, CABLE TV, DATA AND TELEPHONE) CAN NOT BE SUSPENDED, WITHOUT PRIOR AUTHORIZATION OF THE PROJECT MANAGEMENT. IF ACCIDENTALLY ANY SERVICE IS INTERRUPTED DUE TO PROJECT ACTIVITIES, CONTRACTOR WILL PROVIDE IMMEDIATE REPAIR TO OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.
12. THE CONTRACTOR IS RESPONSIBLE TO TAKE PHOTOS OF THE EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORKS. THIS IS REQUIRED FOR ANY CLAIM THAT ARISES AND MUST BE DELIVERED TO THE RESIDENT INSPECTOR FOR HIS FILES.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTERS DURING DEMOLITION AND CONSTRUCTION WORKS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TEMPORARY OR NECESSARY EQUIPMENTS OR UTILITIES FOR THE PROVISION OF ELECTRICITY, POTABLE WATER AND SANITARY SERVICES FOR THE CONSTRUCTION PERSONNEL AND FOR THE CONSTRUCTION INSPECTION TEAM DURING THE DEMOLITION AND CONSTRUCTION PERIOD. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY OFFICE TRAILER FOR THE CONSTRUCTION INSPECTION TEAM.

SAFETY AND HEALTH PRECAUTIONS:

1. SAFETY MEASURES AND PRECAUTIONS DURING DEMOLITION/CONSTRUCTION (ALL O.S.H.A. AND E.P.A. UPDATED COMPLIANCE IS UNDER EFFECT).
2. GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS SAFETY PLAN.
3. SAFETY MEETINGS - THE CONTRACTOR WILL PERFORM WEEKLY SAFETY TOURS AND MEETINGS WITH HIS PERSONNEL TO TRAIN AND DISCUSS THE BEST PRACTICES AND SAFETY MEASURES TO BE IMPLEMENTED IN THE PROJECT.
4. THE CONTRACTOR WILL PERFORM CONTINUOUS JOB SITE INSPECTIONS CONFIRM ANY POTENTIAL SAFETY HAZARDS IF A POTENTIAL HAZARD IS SUSPECTED OR FOUND, THE CONTRACTOR. WILL USE THE APPROPRIATE METHODS, EQUIPMENT, DEVICES AND MATERIAL TO ASSURE A SAFE WORKPLACE, SAFETY TOURS. AND TO MAINTAIN A SAFE AND ACCIDENT FREE JOB.
5. THE CONTRACTOR WILL PROVIDE TRAINED AND EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR.
6. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIRE PROTECTION IN THE WORK AND OPERATIONAL AREAS.
7. THE SPORT FACILITIES WITHIN THE PARK AND OTHER RECREATIONAL SPACES CANNOT BE USE FOR THE STORAGE OF CONSTRUCTION OR COMBUSTIBLE MATERIAL.
8. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS FOR THE ENTIRE DEMOLITION / CONSTRUCTION AREA.
9. ALL HEAVY EQUIPMENT SHOULD HAVE ITS OWN FIRE EXTINGUISHERS OR HAVE ONE AVAILABLE IN A 100 FEET RADIUS FROM IT.
10. DURING DEMOLITION / CONSTRUCTION PERIOD FREE ACCESS TO FIRE HYDRANTS, OR TO OTHER FIRE EXTINGUISHING EQUIPMENT, SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.
11. CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DRESS PROPERLY WHILE PERFORMING THEIR JOB AND TO USE THEIR PERSONAL PROTECTIVE EQUIPMENT IN COMPLIANCE WITH OSHA AT ALL TIME. AS A MINIMUM, BUT NOT LIMITED TO:
 1. EACH WORKER WILL USE APPROPRIATE WORKING SAFETY SHOES.
 2. PROPER RESPIRATORY PROTECTION WILL BE USE WHENEVER REQUIRED.
 3. PROPER HAND PROTECTION WILL BE USE WHEN REQUIRED.
 4. PROPER HEARING PROTECTION WILL BE USED IN AREAS WHERE SOUNDS ARE HIGHER THAN 80 DBS.
 5. CORRESPONDING HARD HAT WILL BE USE WHENEVER REQUIRED.
 6. REFLECTIVE VEST WILL BE USE WHENEVER REQUIRED.



ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE	ISSUE FOR REVIEW DATE
DATE15	DATE16	DATE17	DATE18	DATE19	DATE20

**PROPOSED SITE PLAN
DEMOLITION NOTES**

**CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE PINON
PR 00877**

PROPOSED PROJECT

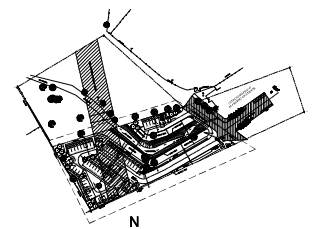
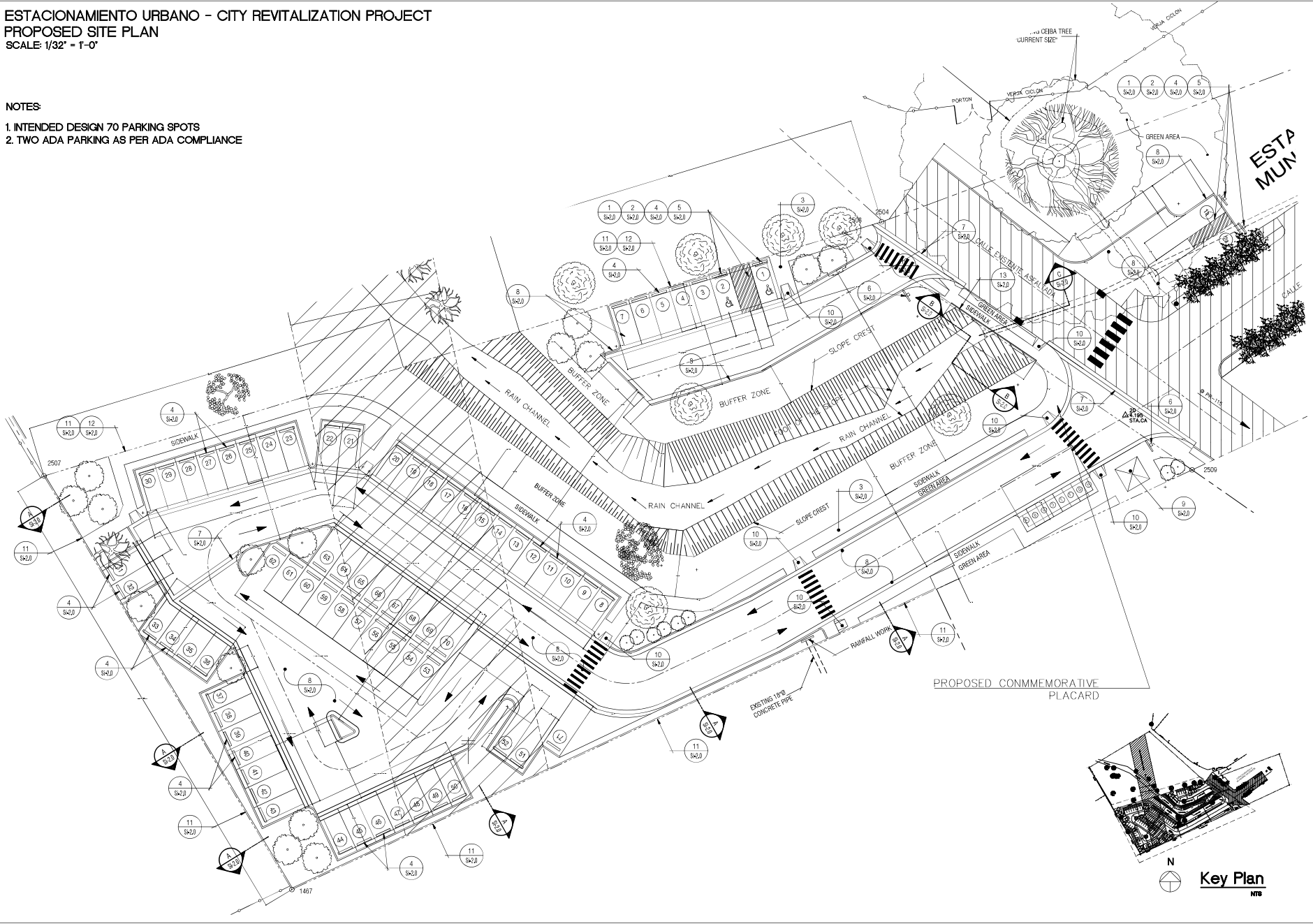
DATE: MARCH 2024
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ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
PROPOSED SITE PLAN
 SCALE: 1/32" = 1'-0"

NOTES:

1. INTENDED DESIGN 70 PARKING SPOTS
2. TWO ADA PARKING AS PER ADA COMPLIANCE



APPLIED ENGINEERING GROUP
 10-01, Av. Carolina, Ave. 1886 8to. Pto. Rico, PR 00974
 (787) 265-7200 FAX: (787) 265-7202

NO.	DATE	REVISION
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17	03/06/2024	ISSUE FOR REVIEW

PROPOSED SITE PLAN
SITE PLAN VIEW

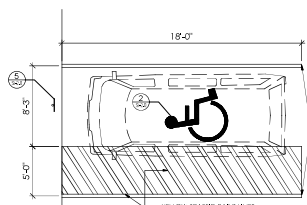
CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
 MUNICIPIO DE RINCON
 PR 00877

PROPOSED PROJECT

DATE: MARCH 2024
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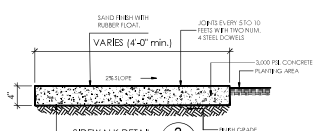
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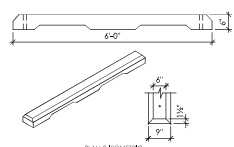
HANDICAPPED PARKING DETAIL
 NOT TO SCALE
 NOTE:
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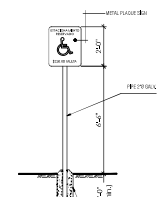
HANDICAPPED FLOOR SIGN DETAIL
 NOT TO SCALE



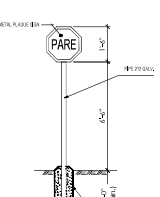
SIDEWALK DETAIL
 NOT TO SCALE
 NOTE: PERPENDICULAR "V" JOINT SHALL BE SPACED EVERY 10'-0" O.C.



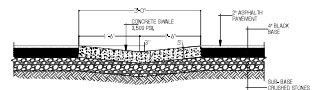
PRECAST WHEEL STOP DETAIL
 NOT TO SCALE
 NOTE:
 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE APPROVALS.



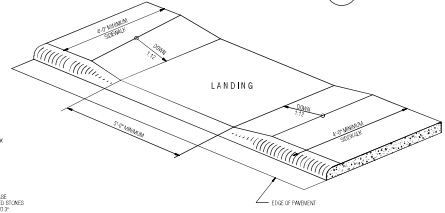
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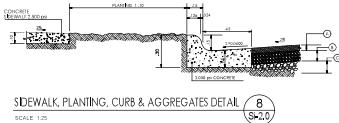
STOP DETAIL
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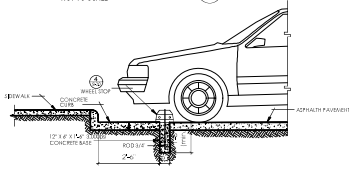
CONCRETE SWALE DETAIL
 SCALE 1/2" = 1'-0"



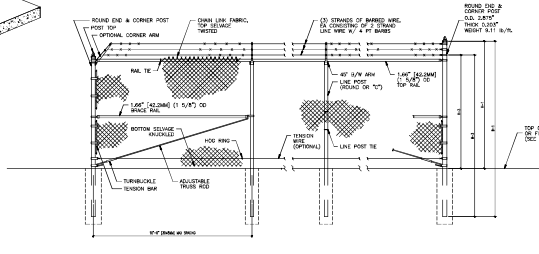
WHEELCHAIR RAMP DETAIL
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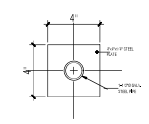
SIDEWALK, PLANTING, CURB & AGGREGATES DETAIL
 SCALE 1/2" = 1'-0"



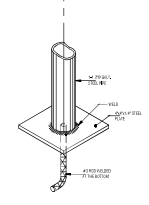
WHEEL STOP SECTION DETAIL FOR ALL PARKING AREAS
 (NOT TO SCALE)



FENCE HEIGHT	UPRIGHT END & CORNER POSTS	LINE POSTS	CORNER POSTS WITH CORNER ARM
NOW HT INCLUDING BARBED WIRE	4x4	4x4	4x4
BAR LENGTH	12'-0"	10'-0"	11'-0"
HEIGHT ABOVE GRADE	7'-8"-7/8"	7'-8"-7/8"	8'-0"-5/8"



TOP VIEW



ISOMETRIC VIEW

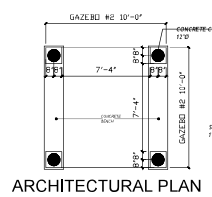


ELEVATION

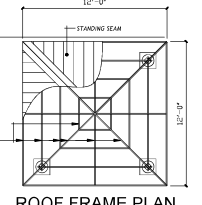
TYPICAL PLATE DETAIL
 (NOT TO SCALE)

IMPORTANT NOTE:
 ALL GALVANIZED STEEL SHALL BE FINISHED IN PHOSPHATE COATED STEEL FINISH TO PREVENT CORROSION. GALVANIZED STEEL FINISH SHALL BE USED FOR ALL GALVANIZED STEEL FINISH. NOTE IN THE SPEC.

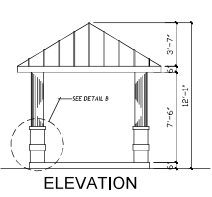
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2	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
3	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
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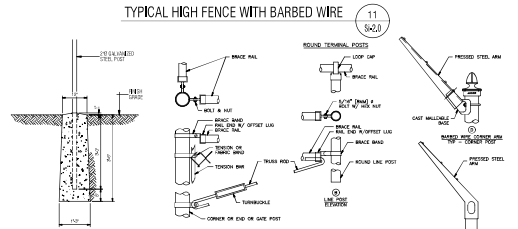
ARCHITECTURAL PLAN



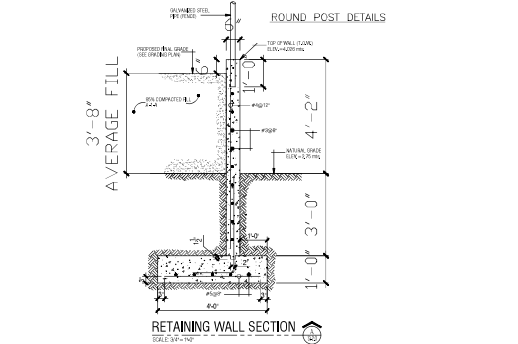
ROOF FRAME PLAN



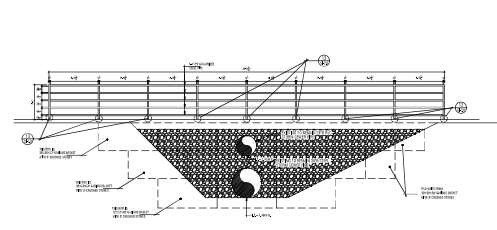
ELEVATION



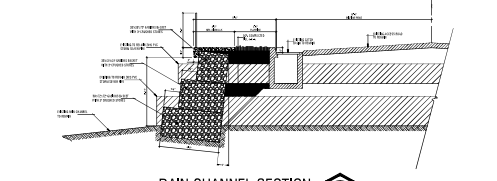
TYPICAL FOOTING DETAIL (IN GROUND)
 (NOT TO SCALE)



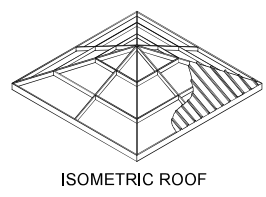
RETAINING WALL SECTION
 SCALE 1/4" = 1'-0"



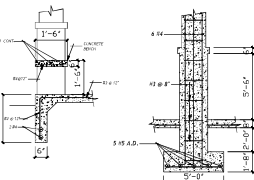
RAIN CHANNEL SECTION
 SCALE 1/2" = 1'-0"



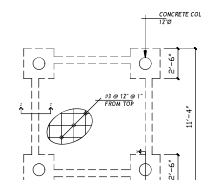
RAIN CHANNEL SECTION
 SCALE 1/2" = 1'-0"



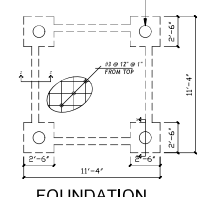
ISOMETRIC ROOF



SECTION Z-Z



SECTION X-X DETAIL B



FOUNDATION

TYPICAL GAZEBO
 NOT TO SCALE

NO.	REVISION	DATE	WHY
1	ISSUED FOR PERMIT	03/20/24	ISSUED FOR PERMIT
2	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
3	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
4	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
5	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
6	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
7	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
8	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW
9	ISSUED FOR REVIEW	03/20/24	ISSUED FOR REVIEW

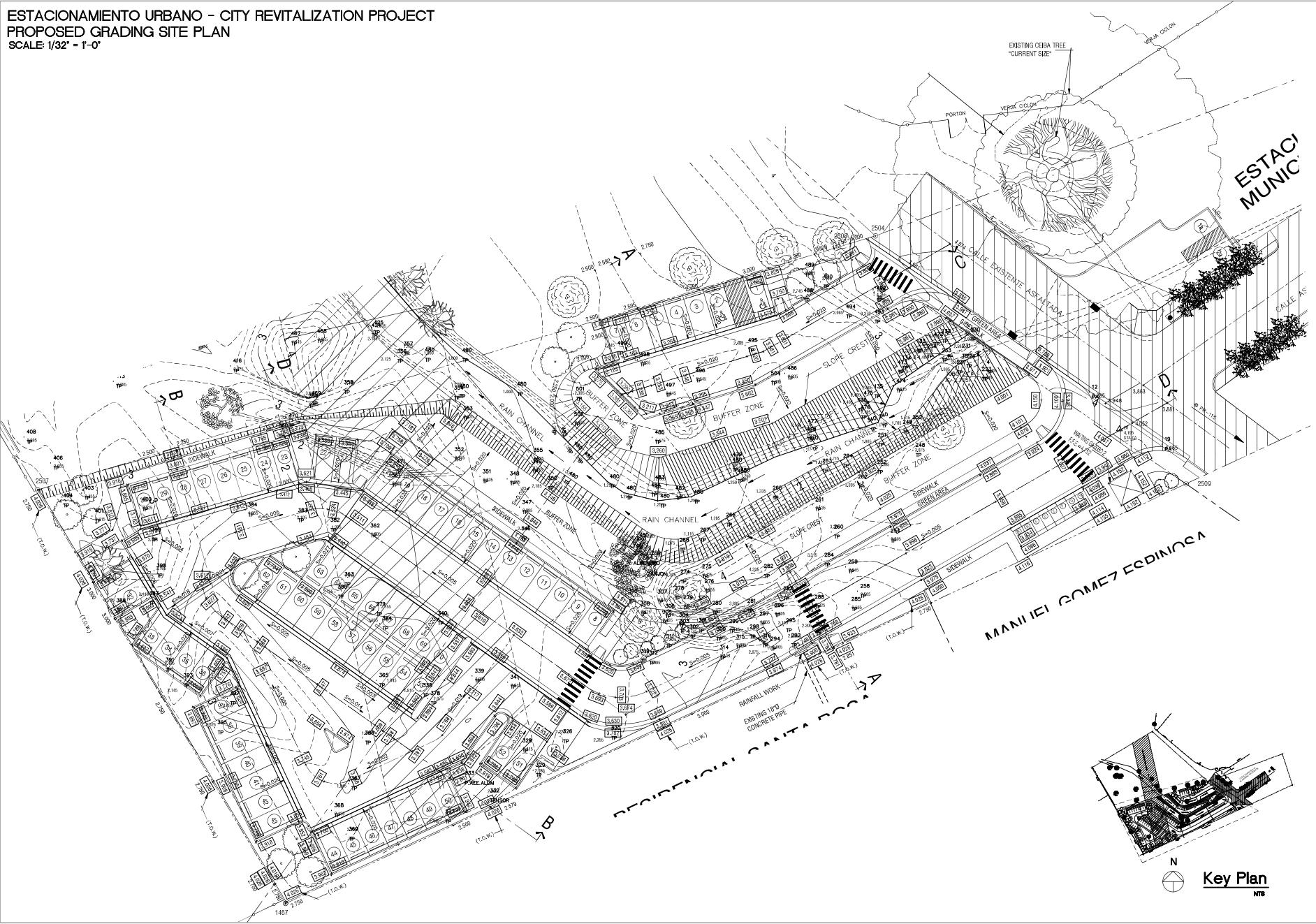
PROPOSED SITE PLAN
TYPICAL SITE DETAILS

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
 MUNICIPIO DE FINCON
 PR 00877

PROPOSED PROJECT

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
PROPOSED GRADING SITE PLAN
 SCALE: 1/32' = 1'-0"

THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS INTENDED FOR REVIEW ONLY. AS AN INSTRUMENT OF THE PROFESSIONAL ENGINEERING SERVICE, IT IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN PERMISSION OF APPLIED ENGINEERING GROUP.



APPLIED ENGINEERING GROUP
 1031 Avenida C-14, P.O. Box 1031, San Juan, PR 00924
 TEL: (787) 762-2222 FAX: (787) 762-2223

DATE	DESCRIPTION
03/28/2024	ISSUE FOR REVIEW
03/28/2024	ISSUE FOR REVIEW
03/28/2024	ISSUE FOR REVIEW
03/28/2024	ISSUE FOR REVIEW
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03/28/2024	ISSUE FOR REVIEW
03/28/2024	ISSUE FOR REVIEW
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03/28/2024	ISSUE FOR REVIEW

PROPOSED SITE PLAN
PROPOSED GRADING SITE PLAN

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
 MUNICIPIO DE RINCON
 PR 00877

PROPOSED PROJECT

DATE: MARCH 2024
 SHEET: SI-3

**ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
GENERAL NOTES**

NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS USED MUST COMPLY WITH ALL GOVERNING REGULATIONS AS SET FORTH BY THE PUERTO RICO PLANNING BOARD, AND ALL OTHER CONCERNING REGULATORY AGENCIES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE LEVELS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNER REPRESENTATIVE ANY DISCREPANCIES WHICH WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK. FAILURE OF THE CONTRACTOR TO IDENTIFY SUCH DISCREPANCIES WILL NOT BE GROUND FOR CHANGE ORDERS.
3. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS TRASH AND GARBAGE AT HIS COST AND DISPOSE OF IT IN A LEGALLY CERTIFIED LAND FIELD ON A WEEKLY BASIS.
4. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES INFLICTED TO THE OWNER'S PROPERTY WITHIN THE CONTRACT LIMITS OR OTHER ADJACENT AREAS DURING THE EXECUTION OF THE WORK.
5. CONTRACTOR SHALL SUBMIT TO THE ENGINEER ALL REQUIRED SHOP DRAWINGS AND SUBMITTALS FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORK .
6. CONTRACTOR SHALL PROVIDE A TEMPORARY PERIMETER CONSTRUCTION FENCE TO ISOLATE CONSTRUCTION AREAS FROM ADJACENT ACTIVITIES. MATERIALS USED MAY BE WOOD, CORRUGATED ZINC PANELS, WOOD PANELING OR APPROVED EQUAL.
7. PRIOR TO STARTING ANY DEMOLITION WORK, THE CONTRACTOR SHALL MEET WITH THE OWNER AND ENGINEER AND PREPARE A DEMOLITION SCHEDULE SHOWING PROPOSED SEQUENCE OF MAJOR DEMOLITION ITEMS; PROVISIONS FOR CONTROLLING NOISE AND DIRT, INCLUDING TEMPORARY STALLS OR SCREENS IF REQUIRED; PROTECTION OF EXISTING OR ADJACENT EQUIPMENT OR CONSTRUCTION; SAFETY PROVISIONS, PROVISIONS FOR DISPOSING OF DEBRIS AND RUBBISH, ETC.
8. IN GENERAL, UNLESS OTHERWISE STIPULATED IN THE DRAWINGS, ALL SALVAGED MATERIALS OR EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ALL SUCH SALVABLE MATERIALS OR EQUIPMENT SHALL BE PROMPTLY REMOVED FROM THE SITE.
9. ALL DEMOLITION WORK SHALL BE EXECUTED WITH ALL POSSIBLE REGARD TO SAFETY AND WITH THE LEAST POSSIBLE NUISANCE FOR OWNER OR OCCUPANTS OF THE PROPERTY AND ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS. CONTRACTOR SHALL COMPLY WITH RENOVATION, REPAIR AND PAINTING RULE ACCORDING TO EPAS LEAD RENOVATION.
10. ANY UN-INDICATED UTILITIES ENCOUNTERED SHALL BE PROTECTED AND LEFT UNDISTURBED OR RELOCATED AS REQUIRED.
11. CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR DAMAGE CAUSED BY HIS OPERATIONS TO EXISTING ADJACENT FACILITIES. SHOULD THE CONTRACTOR CAUSE SUCH DAMAGE, HE SHALL BE RESPONSIBLE FOR REPAIRING AND REFINISHING, OR REPLACING IF REQUIRED, ALL DAMAGED WORK OR EQUIPMENT AT NO EXPENSE TO THE CORRESPONDING OWNER.
12. THE CONSTRUCTION SITE SHALL BE MAINTAINED REASONABLY NEAT AND FREE FROM EXCESSIVE ACCUMULATION OF TRASH AND DEBRIS. PROMPTLY REMOVE ALL TRASH, DEBRIS, RUBBISH, ETC. FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
13. ALL DEMOLISHED PORTIONS OF BEAMS, SLABS, PARAPETS, OVERHANGS, LINTELS ETC. SHALL BE SMOOTHED OUT AND FINISHED TO MATCH ADJACENT SURFACES. SECTIONS OF PROTRUDING RODS AND STEEL REINFORCING BARS SHALL BE CUT AND REMOVED.
14. ANY SUBSTITUTE FOR SPECIFIED ITEMS MUST BE APPROVED IN WRITING BY THE OWNER.
16. PRIOR TO COMMENCING ANY EXCAVATIONS OR REMOVAL OF EXISTING MATERIAL WITHIN THE CONTRACT AREAS, GENERAL CONTRACTOR SHALL VERIFY AND ESTABLISH ALL EXISTING SITE LEVELS TO BE MAINTAINED ONCE CONTRACTED WORKS ARE COMPLETED.
17. AREAS WITH POOR DRAINAGE CAPACITY OR WITHIN NEW CONSTRUCTION SHALL BE REGARDED AS REQUIRED TO ESTABLISH PROPER DRAIN LEVELS.

EROSION CONTROL:

1. THE EROSION CONTROL MUST ADHERE TO BOTH STATE AND FEDERAL LAWS. THE RESPONSIBILITY FOR IMPLEMENTING EROSION CONTROL MEASURES AND OBTAINING NECESSARY PERMITS AND NOTICES LIES WITH THE CONTRACTOR AND/OR OWNER. "LA JUNTA DE CALIDAD AMBIENTAL" (JCA) AND THE ENVIRONMENTAL PROTECTION AGENCY (EPA), MANDATE PERMITS FOR ALL CONSTRUCTION PROJECTS, INCLUDING SMALL AND LARGE SITES. APPLIED ENGINEERING GROUP ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ANY NON-COMPLIANCE ISSUES ARISING FROM THE OWNER OR CONTRACTOR.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING GENERAL PERMIT IN COMPLIANCE WITH GOVERNMENTAL AGENCY AND FOR THE IMPLEMENTATION OF A STORMWATER POLLUTION PREVENTION PLAN (CES PLAN) ACCORDING TO REQUIREMENTS AND APPLICABLE LAWS.
3. EXISTING VEGETATION SHALL BE PRESERVED BY CONTRACTOR, WHEN POSSIBLE. ANY DISTURBED AREA MUST BE STABILIZED WHEN CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. STABILIZATION MUST IMMEDIATELY, MEANING WITHIN 2 WEEKS (14 DAYS) OF END OF ACTIVITIES UNLESS CONSTRUCTION WILL RESUME NO LATER THAN 21 DAYS.
4. ALL EROSION CONTROL DEVICES SPECIFIED IN THE APPROVED EROSION CONTROL PLAN, SHALL BE INSTALLED PRIOR TO LAND DISTURBING ACTIVITIES.
5. EROSION CONTROL PLAN IS SUBJECT TO REVISIONS AND/OR ADDITIONAL EROSION CONTROL DEVICES IF REQUIRED THROUGHOUT PROJECT ACTIVITIES, IF AN APPROVED PLAN CANNOT CONTROL EROSION OR OFF-SITE SEDIMENTATION.
6. THE CONTRACTOR IS OBLIGATED TO MANAGE SILT AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND APPLICABLE REGULATIONS. UPON THE INSTALLATION OR COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF SUFFICIENT VEGETATION TO PREVENT EROSION, THE CONTRACTOR MUST REMOVE ALL TEMPORARY EROSION CONTROL DEVICES. ANY HARM CAUSED TO ADJACENT PROPERTIES, DOWNSTREAM CHANNELS, WETLANDS, WATERWAYS, OR WILDLIFE IS THE RESPONSIBILITY OF THE CONTRACTOR, WHO MUST RECTIFY SUCH DAMAGE AT THEIR OWN EXPENSE.
7. AT NO ADDITIONAL COST TO OWNER, CONTRACTOR IS REQUIRED TO TAKE ALL AVAILABLE AND/OR NECESSARY PRECAUTIONS TO CONTROL DUST.

THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR REVIEW ONLY. AN INSTRUMENT OF SERVICE HAS BEEN OBTAINED FROM THE ENGINEERING BOARD OF PROFESSIONAL ENGINEERS OF PUERTO RICO. THE CONTRACTOR SHALL BE SOLE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



DATE	ISSUE FOR REVIEW	DATE	ISSUE FOR REVIEW
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021
12/08/2021	12/08/2021	12/08/2021	12/08/2021

**PROPOSED SITE PLAN
GENERAL NOTES**

**CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000605
MUNICIPIO DE RINCON
PR 00877**

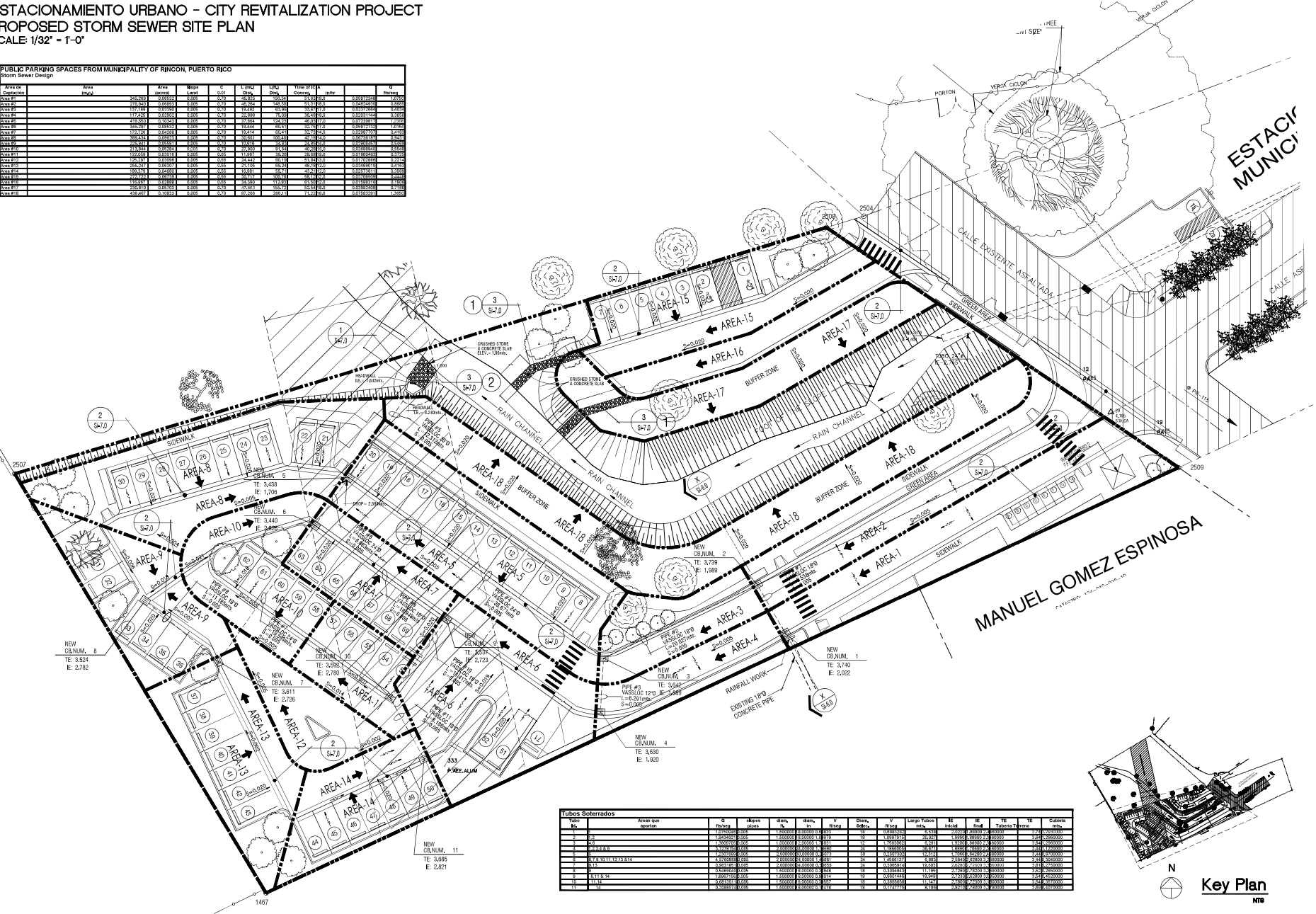
PROPOSED PROJECT

MARCH 2024
SI-4

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
PROPOSED STORM SEWER SITE PLAN
 SCALE: 1/32" = 1'-0"

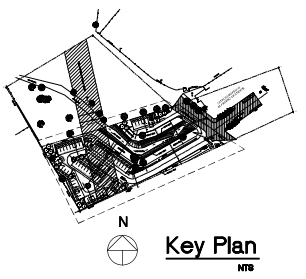
PUBLIC PARKING SPACES FROM MUNICIPALITY OF RINCON
 Storm Sewer Design

Area #	Area (sq ft)	Area (acres)	Flow (cfs)	C	L (ft)	D (ft)	Flow of Inlet (cfs)	Inlet	Flow of Outlet (cfs)	Outlet
Area #1	241,700	0.0055	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #2	238,000	0.0054	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #3	235,000	0.0053	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #4	232,000	0.0052	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #5	229,000	0.0051	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #6	226,000	0.0050	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #7	223,000	0.0049	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #8	220,000	0.0048	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #9	217,000	0.0047	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #10	214,000	0.0046	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #11	211,000	0.0045	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #12	208,000	0.0044	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #13	205,000	0.0043	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #14	202,000	0.0042	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #15	199,000	0.0041	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #16	196,000	0.0040	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #17	193,000	0.0039	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #18	190,000	0.0038	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #19	187,000	0.0037	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #20	184,000	0.0036	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #21	181,000	0.0035	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #22	178,000	0.0034	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #23	175,000	0.0033	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #24	172,000	0.0032	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #25	169,000	0.0031	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #26	166,000	0.0030	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #27	163,000	0.0029	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #28	160,000	0.0028	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #29	157,000	0.0027	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #30	154,000	0.0026	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #31	151,000	0.0025	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #32	148,000	0.0024	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #33	145,000	0.0023	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #34	142,000	0.0022	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #35	139,000	0.0021	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #36	136,000	0.0020	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #37	133,000	0.0019	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #38	130,000	0.0018	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #39	127,000	0.0017	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #40	124,000	0.0016	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #41	121,000	0.0015	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #42	118,000	0.0014	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #43	115,000	0.0013	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #44	112,000	0.0012	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #45	109,000	0.0011	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #46	106,000	0.0010	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #47	103,000	0.0009	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #48	100,000	0.0008	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #49	97,000	0.0007	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #50	94,000	0.0006	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #51	91,000	0.0005	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #52	88,000	0.0004	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #53	85,000	0.0003	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #54	82,000	0.0002	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #55	79,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #56	76,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #57	73,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #58	70,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #59	67,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #60	64,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #61	61,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #62	58,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #63	55,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #64	52,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #65	49,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #66	46,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #67	43,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #68	40,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #69	37,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #70	34,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #71	31,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #72	28,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #73	25,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #74	22,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #75	19,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #76	16,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #77	13,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #78	10,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #79	7,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #80	4,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #81	1,000	0.0001	0.005	0.00	1,000	10	0.00	1,000	0.00	1,000
Area #82	0.000	0.0000	0.000	0.00	1,000	10	0.00	1,000	0.00	1,000



Tubos Soterrados

No.	Area que abarca	Q (cfs)	Velocidad (ft/s)	Diám. (ft)	Long. (ft)	V. (ft³/s)	Diám. (ft)	Long. (ft)	M. (ft)	TE (ft)	TE (ft)	Diámetro (ft)
1	AREA-1	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	AREA-2	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	AREA-3	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	AREA-4	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	AREA-5	0.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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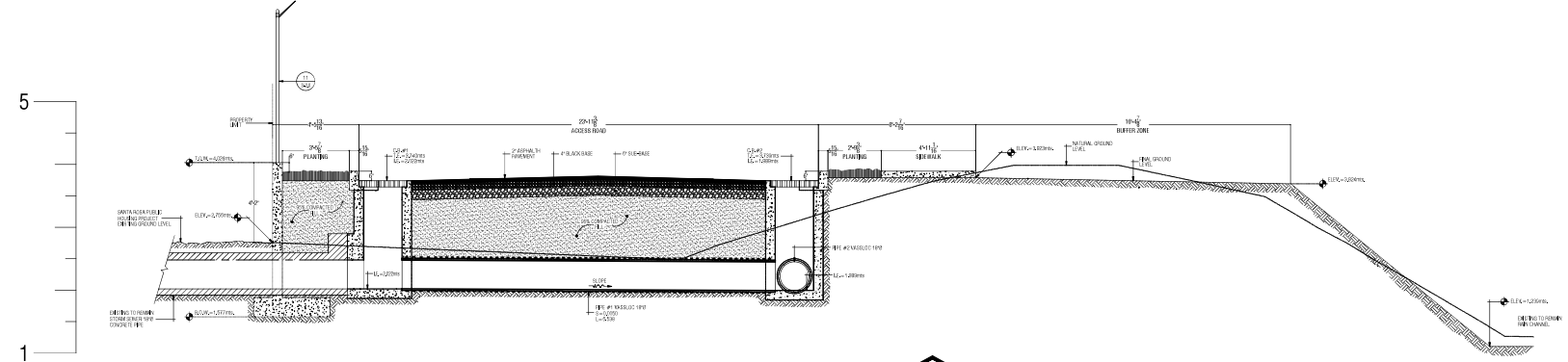
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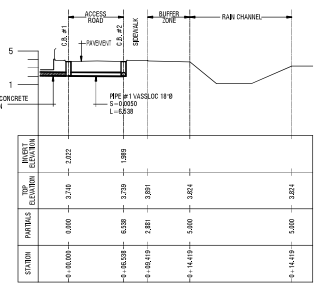
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PROPOSED STORM SEWER
SITE PLAN

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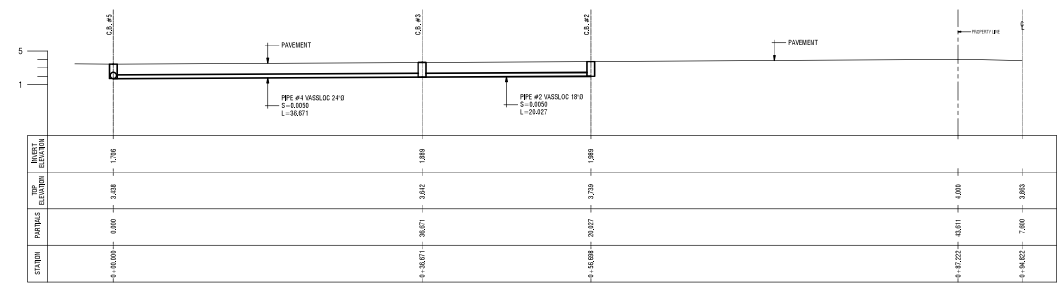
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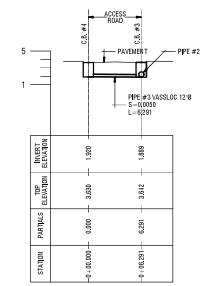
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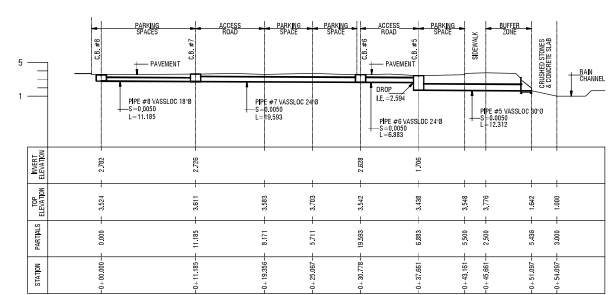
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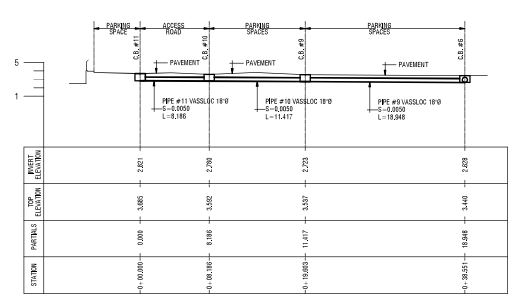
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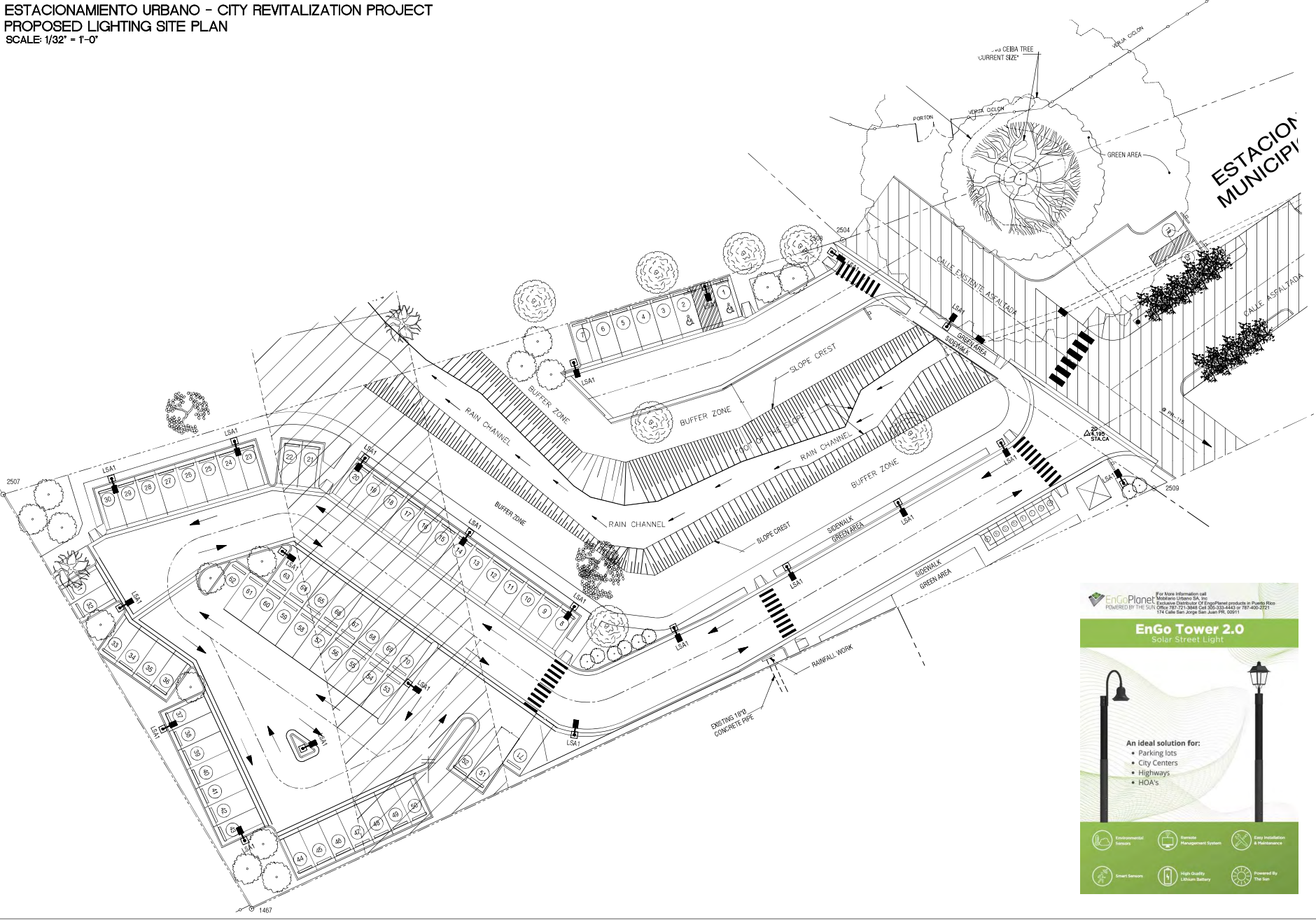
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**PROPOSED SITE PLAN
 STORM SEWER PROFILES**

**CITY REVITALIZATION PROJECT
 ESTACIONAMIENTO URBANO
 PR-CRP-000605
 MUNICIPIO DE FINCON
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PROPOSED PROJECT

ESTACIONAMIENTO URBANO - CITY REVITALIZATION PROJECT
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PROPOSED SITE PLAN
PROPOSED LIGHTING SITE PLAN

CITY REVITALIZATION PROJECT
ESTACIONAMIENTO URBANO
PR-CRP-000505
 MUNICIPIO DE RINCON
 PR 00877

PROPOSED PROJECT

DATE: **MARCH 2024**
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ArcGIS Web AppBuilder



Attachment 13: Sole Source Aquifers

Project: Estacionamiento Urbano (PR-CRP-000505) Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: USEPA Map of Sole Source Aquifer Location

Website: <https://www.epa.gov/dwssa/map-sole-source-aquifer-location>

Author: Applied Engineering Group



October 4, 2023

Wetlands

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



National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Attachment 14A: Wetlands
 Project: Estacionamiento Urbano (PR-CRP-000505)
 Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)
 Source: USFWS National Wetlands Inventory – Wetlands Mapper
 Website: <https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>
 Author: Applied Engineering Group

Attachment 14B Wetlands Characterization Report



March 2024

Wetland Characterization Report

Ojo de Agua Parking Lot Extension, Rincón, PR

Submitted to:

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- Attachment 1 Plot Plans & Design Drawings
- Attachment 2 USDA SOIL REPORT & HYDRIC SOIL MAP
- Attachment 3 DATA FIELD FORMS

1 INTRODUCTION

1.1 BACKGROUND

The Municipality of Rincón (MOR) has proposed the expansion of the existing Parking Lot “Ojo De Agua” located in the downtown area of the municipality as part of the city revitalization proposed projects for the City Revitalization Program subsidized with funds from the from the Puerto Rico Department of Housing (PRDOH). This report covers the area delimited as the proposed project as presented in preliminary drawings provided by Applied Engineering Group, Corp (AEG) and provides wetland identification and characterization properties for the proposed project area with purpose of complying with Environmental Review Record process. This report aims to identify, characterize, and map the characteristics of wetlands present in the area based on regulatory guidelines and criteria. The field collection data process involves field observations, soil observations, vegetation surveys, and hydrological assessment for the site to determine the presence of wetland characteristics. The information presented in this report serves as a tool in the decision process for the Wetlands (CEST and EA) – Partner Checklist from the US Department of Housing and Urban Development (USDOH) to comply with the National Environmental Policy Act (NEPA).

Although this report does not constitute a wetland delineation, it utilizes methods used for the delineation of wetland as well as additional techniques such as remote sensing and geographical information data collection and analysis for the identification of wetland properties in the proposed project area and its vicinity.

1.2 PROPOSED PROJECT AREA

1.2.1 General Description – Site Area

The proposed area for the project is approximately 8,250.186 (First Stage Area) (See **Attachment 1 – Plot Plan**) square meters (m²) its located in Rincón downtown area (18.0000, -67.0000) and its mainly composed of the following attributes: (1) rainwater canal/ditch which passes through the project designated area dividing the project area into two main areas; (2) north area (Sub-Area A1) and (3) south area (Sub-Area A2). The area is located to the east of the Rincón coastal area at approximately 250 meters (m). The area is surrounded by residential and commercial uses.

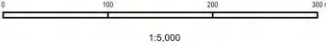
The general composition of the area is mainly vegetation areas and areas occupied by a homemade structure that are located within the project area (See **Figures 1-1, 1-2**). The homemade structures are used for raising chickens and farm animals such as goats. The other main composition in the project area is the main rainwater canal/ditch which travels mainly in the center of the area divides the main site area into two sub-areas.

FIGURE 1-1
USGS TOPOGRAPHIC QUADRANGLE



□ Site_Areas

Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR



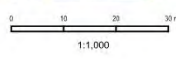
USGS Topographic Quadrangle - Site Area
Figure 1-2

FIGURE 1-2
SITE AREA



Site_Areas Rainwater Drainage

Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR



Site Area (Phase 1 and Phase 2)
Figure 1-1

The National Wetland Inventory (NWI) identifies an Emergent Freshwater Wetland (EFW) identified as PEM1F to the northwest of the proposed project area.

FIGURE 1-3
NWI – PEM1F



1.2.2 Sub-Area 1

Sub-Area A1 (S-A1) is comprised of 869.579 sq m and its located in the north portion of the project area. The area is mainly composed of open area of vegetation with deposits of construction debris and vegetative debris deposited illegally. Specifically, the vegetation debris gives a false sense of the actual topography of the area whereas deposits may range between 1 m and 1.5 m from the actual ground. Vegetative and construction debris found in this area can most likely be located in the front or adjacent to the main road. None of the sections or areas identified as PEM1F wetland in the NWI are located within this area.

Topography for S-A1 ranges from 4 m to 2 m following direction of the rainwater canal/ditch from east to west in reference to the main road (Ojo de Agua Road), lowest point adjoining between canal and wire railing. As mentioned earlier, vegetative debris has impacted the existing topography for S-A1 where deposits seem to be in the process of degradation (See **Figure 1-2**).

1.2.3 Sub-Area 2

Sub-Area 2 (S-A2) has approximately an area of 5776.111 sq m and its composed of open areas of vegetation and areas with homemade structures used for the raising of animals such as chickens and goats. Due to the raising of animals operation, part of the area for S-A2 has been cleared for the placement of such structures. Also, debris and old car remains are present in this area.

To the northwest of S-A2 is located PEM1, approximately 1500 sq m of the total area delimited for PEM1F is located within the boundaries of S-A2. The total coverage area for PM1F is approximately 3298 sq m¹. The area of PEM1F within the proposed project footprint in S-A2 is approximately seventy-eight sq m (see **Figure 1-2**).

Topography for S-A2 ranges from 4 m to 2 m from the main road to adjoining property of Ramón Quinones Rosario and Condominium Challet Del Mar. Lowest elevation in S-A2 can be seen parallel to Phase 2 subdivision where elevation is 2 m adjoining with the rainwater canal / ditch.

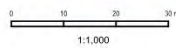
¹ Area of PM1F EFW 0.814979389362 acres as documented in attribute table for NIW Geodatabase from US Fish And Wildlife Services.

**FIGURE 1-4
SUB-AREAS**



S-A1
S-A2
Site_Areas

**Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR**



**Sub-Area 1 and Sub-Area 2 Location
Figure 1-2**

2 REGULATORY BACKGROUND

2.1 FEDERAL JURISDICTION

2.1.1 National Environmental Policy Act

The National Environmental Policy Act (NEPA) stands as a cornerstone of environmental legislation in the United States. Often heralded as the "Magna Carta" of Federal environmental laws, NEPA was enacted with the primary purpose of integrating environmental considerations into federal agencies' decision-making processes. It mandates that before any major federal actions are taken—those which could significantly affect the environment—agencies must assess the potential environmental impacts.

NEPA's significance lies in its requirement for federal agencies to evaluate the environmental consequences of their proposed actions prior to making decisions. This process ensures that environmental considerations are weighed equally with other factors in the planning and decision-making processes of the federal government. The act aims to foster and promote the general welfare, create and maintain conditions under which man and nature can exist in productive harmony, and fulfill the social, economic, and other requirements of present and future generations.

By setting this precedent, NEPA has fundamentally changed how federal agencies plan their actions, ensuring that environmental effects are considered at the initial stages of planning. This has led to more informed decision-making and has contributed to the protection of the environment through the mitigation of potential negative impacts on ecosystems and communities.

2.1.2 Executive Order 11990

Executive Order (EO) 11990 was established in May 1977 with the purpose of protecting wetland resources in the United States of America (US) by avoiding to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands, and to avoid directly or indirectly any new constructions or developments where practicable alternatives are available.²

EO 11990 establishes each federal agency must lead efforts to protect wetlands, minimize damage, and enhance their values during tasks related to Federal lands, construction, and land use activities. The Order does not cover issuing permits, licenses, or allocations for wetland activities on non-Federal land to private entities.³

² Executive Order 11990 - By virtue of the authority vested in me by the Constitution and statutes of the United States of America, and as President of the United States of America, in furtherance of the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.), in order to avoid to the extent possible the long and short term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative...

³ Executive Order 11990 – Section 1

2.1.3 Section 404 Clean Water Act

Wetlands in Puerto Rico (PR) area regulated through Section 404 of the Clean Water Act (CWA) which regulates the discharge of dredge and fill material into navigable waters of the US which include wetlands⁴. Any activity which involves the filling or dredging of material in the navigable waters of the US has to comply with the solicitation of an individual permit which is reviewed by the USCOE. Such activities may include fill for development, water resource projects and construction of infrastructure.⁵

Section 404 focuses in the conservation of wetlands through prevention of dredged or fill material when (1) practicable alternatives exist to prevent significant environmental impact to aquatic environmental or (2) or the nations waters would be significantly degraded.

Wetland management is executed by the Environmental Protection Agency (EPA), United States Fish and Wildlife Services (USFWS) and the United States Corps of Engineers (USCOE).

2.2 STATE JURISDICTION

2.2.1 State Program

Wetlands at state jurisdiction for PR are mainly over sought by Department of Natural Environmental Resources and Conservation of Puerto Rico (DNERC) and the Puerto Rico Planning Board (PRPB)⁶. Each agency has areas of interest for overseeing wetlands activities in PR. Activities may be land conservation or recreation uses for an area of interest.

No state program for the management of wetlands has been adopted by the DENRC other than specific laws to delimit natural reserves in specific areas. No laws or reserve declarations were found for the area of the proposed project.

⁴ Wetlands Definition USCOE Manual 1987- Those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

⁵ USEPA – Permit Program under CWA Section 404

⁶ Guide to the Ecological Systems of Puerto Rico – General Technical Report IITF-35- p-171 - The Puerto Rico Department of Natural and Environmental Resources and the Planning Board of Puerto Rico are the primary commonwealth agencies overseeing wetland protection.

3 METHODOLOGY

3.1.1 Methodology General Description

For the characterizations of wetland attributes in the proposed project area methodology established in the USCOE Wetland Delineation Manual 1987 (WDM) and USCOE Regional Supplement to the Corps of Engineers Delineations Manual: Caribbean Islands Region (Version 2.0). The regional supplement establishes methods and characteristics for the identification of the three main attributes for the identification of wetlands and their boundaries to transitional upland areas. These three indicators are (1) hydrophytic vegetation, (2) Hydric soil presence and (3) hydrology conditions for a given site. Additionally, to procedures presented in the regional supplemental remote sensing techniques were implemented by acquiring custom aerial imagery for the site using unmanned aircraft systems (UAS) for the identification and documentation of elements using geographical information systems (GIS).

Field data was collected within a period of 5 (from February 17 to 21, 2024) days where visual observations and markings were made with Global Position System (GPS) instrumentation (ISXBlue II GPS antenna) connected to Real time Kinematic (RTK) network for the field data collection. Data collected was post-processed (PP) in GIS to developed analysis and visualization products for wetland characterization for the site using the mention attributes.

3.1.2 Preliminary Data Gathering and Assessment

3.1.2.1 NWI Maps

Preliminary data gathering for existing wetland delineation by the USFWS in the NWI was verified via and wetland mapper application and later acquired NWI dataset for PR and the US Virgin Islands (USVI) to visualize existing wetland footprints in comparison to the proposed project footprint. This preliminary data visualization was used in the planning for all field work activities and to identify areas of interest where delimited existing wetlands in the NWI are mapped. Field validation for wetlands mapped in the NWI must be done to incorporate any changes that may have occurred during extended or brief period of times by human-caused or natural conditions.

PEM1F is identified as a Wetland system in the proposed project area and adjacent area. PEM1F delimited footprint was on its majority eliminated by the construction of Condominium Challet Del Mar and bordering private houses. PEM1F footprint was reduced by approximately 1655.10 sq m (51 %). The remaining 1642.46 sq m (49 %) remains as an undeveloped area border lining the rainwater canal/ditch.

3.1.2.2 Hydric Soils Database

Hydric soils are defined as soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (USDA Soil

Conservation Service 1994). ⁷United States Department of Agriculture (USDA) and Natural Resources Conservation Service (NRCS) have developed reports (Soil Surveys) and data (soil maps) to established types of soils and characteristics for most of continental US and PR and the USVI. Preliminary data gathering of soils for the project proposed site was conducted to establish if hydric soils were present at the site, which is one of the three characteristics to wetland identification as specified in the USCOE WDM and supplement. Hydric soil list was collected for PR to evaluate list soils with the NRCS maps and soil survey prior field work. This approach focused on establishing areas of interest where hydric soils characteristics may be present as an indicator of wetlands.

Data for hydric soil maps form the USDA Web Soil Survey (WSS) to establish most current data for the type of soil in the proposed project site area and view hydric classification of the soil identified. The soil identified for the proposed project site area is identified as Igualdad Clay (I_g) and its described as a soil that receives a mean annual precipitation of 70 to 90 inches which can be found in coastal and floodplains with a composition of fine sediments over sands. I_g has properties drainage as poor and frequent flooding with no ponding ⁸(see **Attachment 2 - Soil Report**).

3.1.2.3 Hydrophytic Vegetation Database

Initial review of USCOE National Wetland Plant List (NWPL) was revised and filtered for the Caribbean Region prior field work activities, the USCOE has available referencing wetland cataloged plants via the NWPL application on the USCOE website. The application facilitates the identification and classification of wetland related plants into the following categories: (1) Obligated Wetland Plants ⁹(OBL), (2) Facultative Wetland Plants¹⁰ (FACW), (3) Facultative Plants¹¹ (FAC), (4) Facultative Upland Plants¹² (FACU) and ((5) Upland Plants¹³ (UPL).

⁷ Hydric soil definition as defined in USCOE Caribbean Supplement in Section 3 Hydric Soil Indicators. p-23.

⁸ Custom Soil Resource Report for Mayaguez Area, Puerto Rico Western Part – AOI – Ojo de Agua – Parking Lot Extension – Soil Description - p-13.

⁹ Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1 percent) in non-wetlands. Examples: *Spartina alterniflora*, *Taxodium distichum*.

¹⁰ Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands Plants but also occur (estimated probability 1 percent to 33 percent) in non-wetlands. Examples: *Fraxinus pennsylvanica*, *Cornus stolonifera*. Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands Plants but also occur (estimated probability 1 percent to 33 percent) in non-wetlands. Examples: *Fraxinus pennsylvanica*, *Cornus stolonifera*.

¹¹ Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and non-wetlands. Examples: *Gleditsia triacanthos*, *Smilax rotundifolia*.

¹² Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands. Plants wetlands but occur more often (estimated probability >67 percent to 99 percent) in non-wetlands. Examples: *Quercus rubra*, *Potentilla arguta*.

¹³ Plants that occur rarely (estimated probability <1 percent) in wetlands but occur almost always (estimated probability >99 percent) in non-wetlands under natural conditions.

3.1.2.4 Hydrology

United States Geological Survey (USGS) has datasets on orthomosaic aerial imagery for the continental US, PR and the USVI. 2010 high resolution aerial imagery was gathered from USGS datasets to establish and analyze historical conditions for the proposed project site. Also, aerial imagery is used to establish elements in the area such as waterways, adjacent surface waters, coastline, etc. In additions to the historic aerial imagery USGS Topographic quadrangle for the project site area for the identification of any surface water bodies delimited.

Upon review of 2016 aerial imagery for the project site area (**See Figure 3-2**) the rainwater canal / ditch is barely visible and can be observed that the area was populated by low dense vegetations and trees.

FIGURE 3-1
2016 SITE AERIAL VIEW - HYDROLOGY



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

0 25 50 75 m
1:2,000

2016- Aerial View - Hydrology
Figure 3-1

USGS 2018 Topographic quadrangle “Rincon-OE-W-20181016” (see **Figure 1-1**) shows an identified marsh symbol in the location where NWI locates PEMF1. The topographic quadrangle does not show any waterways or surface waterbodies in the area. Also, floodplain maps were checked via the Federal Emergency Management Agency (FEMA)

3.1.3 Wetland Characterization Methodology

3.1.3.1 Hydrophytic Vegetation

For the identification of hydrophytic vegetation in the proposed project site the methodology presented in the USCOE WDM, and supplement was used to establish to collect vegetation samples in the proposed project site. The USCOE manual defines hydrophytic vegetation as the community of macrophytes that occurs in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to influence plant occurrence.¹⁴ Vegetation communities locations were established during the preliminary data gathering utilizing aerial imagery, post-preliminary assessment for location of communities.

Individual baselines were established in S-A1 and S-A2 to establish transects towards the rainwater canal/ditch/ditch to determine wetland vegetation and upland indicator for the existing vegetation in S-A1 and S-A2. Sample points were marked using GPS antenna to document absolute percentages of stratum cover (trees, shrubs, woody vines, herbs) for the area. For each sampling point plots measure in feet (ft) were established following radius in USCOE WDM. The following plot sizes were used for the specified stratum: (1) tree stratum a 30 ft radius plot, (2) shrub stratum a 15 ft radius, (3) herb stratum 5 ft plot radius using 3.28 square plots.

For tree stratum, all trees consisting of three inches (in.) diameter at breast height (DBH) were documented in the field form using scientific notation within the 30 ft radius plot, all sapling and shrubs less than 3 in. and a DBH greater than 3.28 ft were documented,

Due to the size and configuration of S-A1 and S-A2 plot sizes had to be adapted to field conditions and plots were adjusted to fit vegetation communities in these areas. In post-processing of the vegetation data collected the dominance test was used to determine wetland identification.

3.1.3.2 Hydric Soils

WSS was reviewed as part of the preliminary assessment prior commencement of field work activities for identification of hydric soils identified by the USDA NRCS. On site soil characterization was done in S-A1 using Munsell Soil Color Chart , texture and visual observation of the soil in S-A1 and S-A2 were documented for hydric soil indicators.

¹⁴ Hydrophytic vegetation definition from USCOE Regional Supplement to Wetland Delineation Manual – Caribbean Islands – Section 2 Hydrophytic Vegetation Indicators – p-9.

3.1.3.3 Hydrologic Conditions

For identification of hydrology conditions, as mentioned earlier, prior site visits review of aerial imagery and other data sources was done. For verification of onsite hydrology conditions visual observations were taken and mark with GPS antenna throughout the S-A1 and S-A2 documenting any hydrology indicators as defined in the USCOE WDM. All hydrology indicators were documented using field electronic form and photo documented (see **Attachment 3 – Data Forms**).

3.1.3.4 Remote Sensing

Photogrammetry for the proposed project site area was executed using UAS with RTK for georeferencing aerial images within 1cm and 3cm for ground sampling resolution. The georeferenced aerial images capture were post-processed (PPK) to develop a geo-referenced orthomosaic of the proposed project area.

The aerial orthomosaic was used to evaluate and illustrate the project site in during actual conditions in 2024 and to identify any additional wetland indicators and ecological communities that were unreachable during site visits.

3.1.3.5 Boundary Placement Analysis

The rationale used for the placement of boundary locations for wetland were the existing conditions on site including the rainwater canal/ditch and site boundaries delimited in the plot plan by Agrim. Dennis Vargas (Surveyor). Also, field data collected during the site visits to visualize transition areas between wetland areas and upland areas following identified indicators.

The main attributes considered for placement of boundaries in regard to the proposed project location were low elevation areas and high elevation areas within the proposed site topography for the area, properties surrounding the area (public and private) and indicators conditions to meet wetland definition as per USCOE WDM. In most areas the transition between the slope of the rainwater canal/ditch was notable where *Ricinus Communis L.* (Higuereta) and *Megathyrus maximus* (Jac.) (Guinea weed) were present as dominant species transitioning to upland vegetation such as *Terminalia catappa* (tropical almond trees) and *Albizia lebeck* (Acacia amarilla) being the predominant species for S-A1 and S-A2. Also, the presence of *Typha domingensis* (Eneas Weed) in areas where surface water was present. Other factors to determine field boundaries for wetlands were previously recorded locations in the NWI.

Consideration for the area delimited in wetland PEM1F was considered for boundary establishment in regards with the proposed project footprint. All boundary placement have been documented in Figures presented through the document.

4 SITE FINDINGS – WETLAND CHARACTERIZATION

4.1.1 Wetland and Surface Waters S-A1

4.1.1.1 Overview

For S-A1 wetland indicators were identified and delimited this area as Wetland A. Wetland A is not mapped in NWI, Wetland A is shown in **Figure 4-1** and in Sampling point P1 and P2 (see **Attachment 3**). Wetland A is located in in the southwest area of S-A1 and runs perpendicular to the wetland boundary documented for PEM1F located to the west of S-A1, this area appears to be the toe of the rainwater canal/ditch and runs towards the rainwater canal, where elevation for the site is lower and the slope or containment area for the water canal/ditch is reduced to the borderline of the adjacent private property which used for the raising of cattle.

Ponding water and *Typha domingensis* (Enea weed) can be observed in this area with little to no movement of water during regular conditions for the site. The mentioned area is approximately 10 m of the borderline established for phase II in the provided plans. This area is outside the Phase I area of the proposed project.

**TABLE 4-1
SUB AREA 1 WETLAND SUMMARY**

Name	NWI ID	Map (Figure)	Sampling Points (Forms)	NWI Total Area (Acres)	Total Field Area (Acres)	Area within Project (Acres)
Wetland A	-	Figure 4-1	P1	0.0		0.00

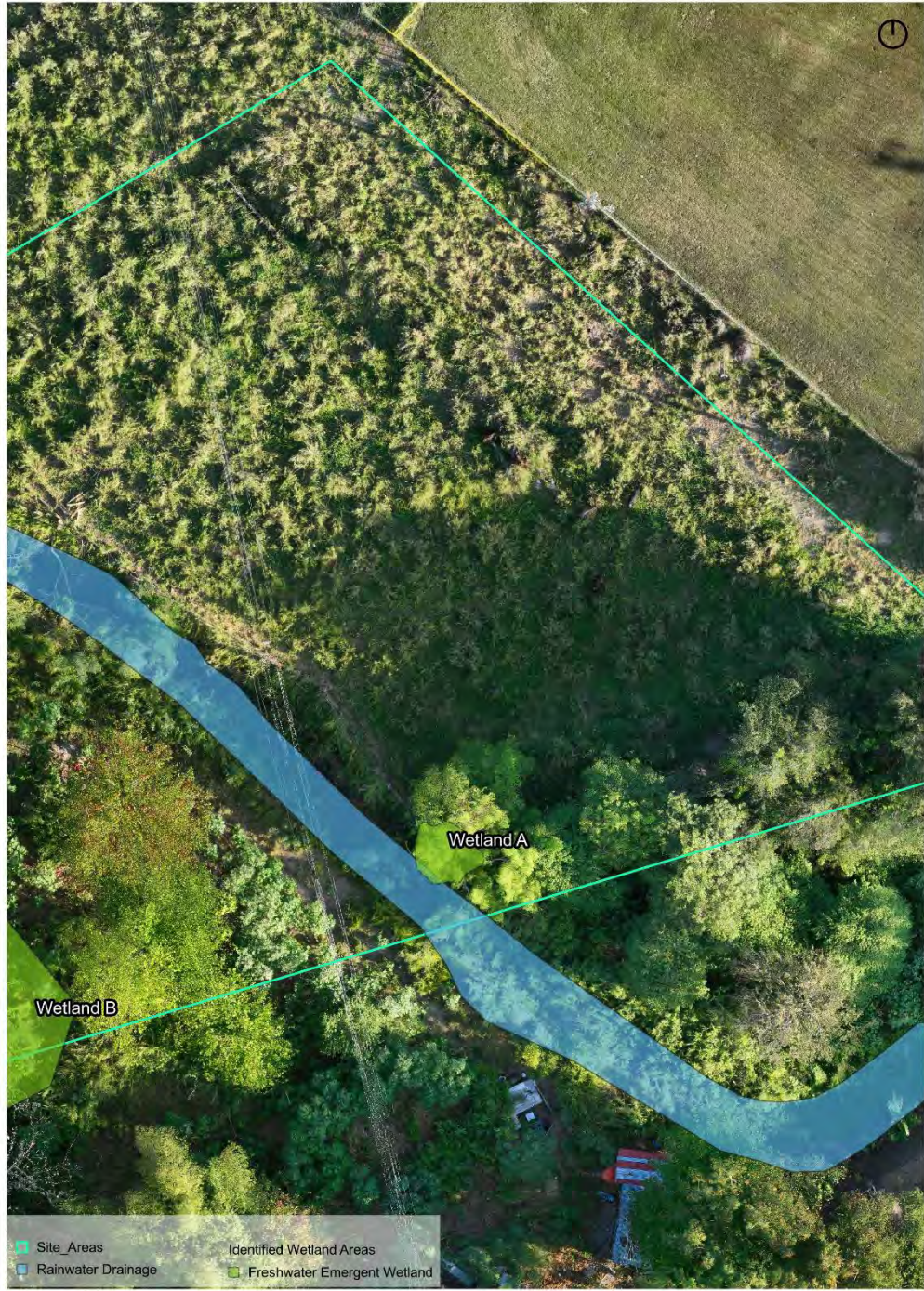
FIGURE 4-1
IDENTIFIED WETLANDS S-A1, S-A2



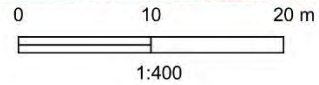
Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

Identified Wetlands S-A1, S-A2
Figure 4-1

**FIGURE 4-2
WETLAND A S-A1**



**Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR**



Wetland A S-A1
Figure 4-2

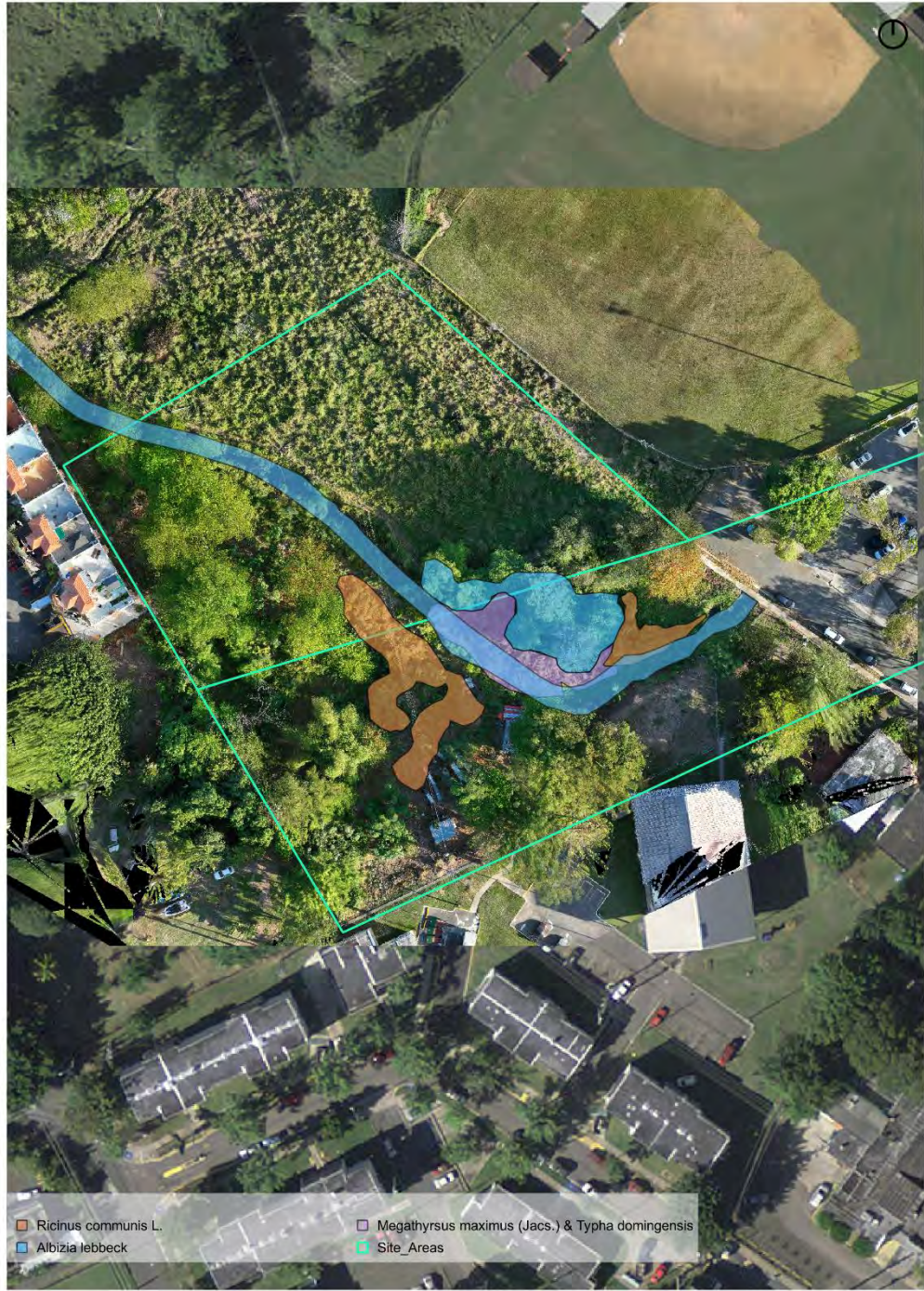
4.1.1.2 NWI Mapping

NWI does not delineate any wetlands for S-A1 and PEM1F identified wetland is located in S-A2. PEM1F is classified as a freshwater emergent wetland.

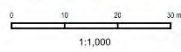
4.1.1.3 Ecological Communities

S-A1 is composed of mostly ecological communities for *Albizia lebbbeck* as the main dominant species for the tree species in conjunction with *Ricinus communis* L. and *Megathyrsus maximus* (Jac.) for upland and upland transitioning species. Small community of *Typha domingensis* can be found in the edge of rainwater canal/ditch in the west side going into the accumulated water in the rainwater canal/ditch into a small patch within the canal. No vine specimens were documented in this area.

FIGURE 4-3
ECOLOGICAL COMMUNITIES S-A1



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR



Ecological Communities - S-A1
Figure 4-3

4.1.1.4 Sampling Points

4.1.1.4.1 Sampling Point P1 (Wetland Emergent)

Sampling point P1 is located in the west area of S-A1 and it was the first sampling point to be indicative of wetland attributes which resulted in the establishment of the boundary for Wetland A (**Figure 4-2**). Dominant plants observed in P1 included *Albizia lebeck* (UPL) in the tree stratum, *Ricinus communis* L (FACU) in the sapling/shrub stratum and *Typha domingensis* (OBL) and *Megathyrsus maximus* (Jacq.) (FACU) in the herb stratum. No specimens were observed in the vine stratum. Primary hydrology indicators observed were surface water (A1) with approximately 4 in. in depth in what appears to be part of the waterway in the canal. Secondary hydrology indicators were not observed in P1. Soil indicators observed were Histosol (A1) and a soil texture of sandy clay with 10 YR 3/1 value in Munsell color chart. No other soil indicators were observed in P1 (see **Attachment 3, P1 Data Form**).

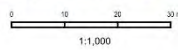
4.1.1.4.2 Sampling Point P2 (Upland)

Sampling Point P2 is located to the upper north of area of S-A1 and it is the closest sampling point to the main road “Calle Ojo de Agua”. Dominant plant species observed in this area for the tree stratum were *Terminalia catappa* (UPL), *Ricinus communis* L. (FACU) for the sapling/shrub stratum and *Malvastrum coromandelium* (L.) (FACU) and *Megathyrsus maximus* (Jacq.) (FACU) in the herb stratum. No soil sampling was done in P2, nevertheless visual and color and texture for the soil is consistent with P1 soil sampling. No hydrology indicators were observed in this P2 (see **Attachment 3, P2 Data Form**).

FIGURE 4-4
SAMPLING POINT S-A1



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR



Sampling Points - S-A1
Figure 4-4

4.1.2 Wetland and Surface Waters S-A2

4.1.2.1 Overview

For S-A2 is located to the wests of the rainwater canal/ditch and borders with residential public housing facility Santa Rosa and private housing facility Condominium Challet Del Mar. PEM1F footprint was reduced in approximately 1655.64 sq m (51 %) . The remaining Wetland indicators were evaluated for the remaining approximately 1642.46 (49 %) of the original PEM1F footprint. Out of the remaining 49%, approximately seventy-three. 64 (4.4 %) sq m are located within the proposed project area (**See Figure 4-5**).

S-A2 is a low elevation area, and it appears to drain towards the rainwater canal/ditch. Elevation in this area tends to increase in direction towards the main road. Surface water can be observed in the rainwater canal with no evident movement, mostly accumulating to pass under Challet Del Mar Condominium parking lot to drain into the coastline located to the east of S-A2.

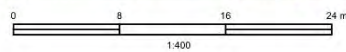
**TABLE 4-2
 SUB-AREA 2 WETLAND SUMMARY**

Name	NWI ID	Map (Figure)	Sampling Points (Forms)	NWI Total Area (Acres)	Total Field Area (Acres)	Area within Project (Acres)
Wetland B	PEM1F	4-1	P3, P4	0.81	0.40	0.01

**FIGURE 4-5
WETLAND B S-A2**



**Wetland Characterization – ERR
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**Wetland B S-A2
Figure 4-5**

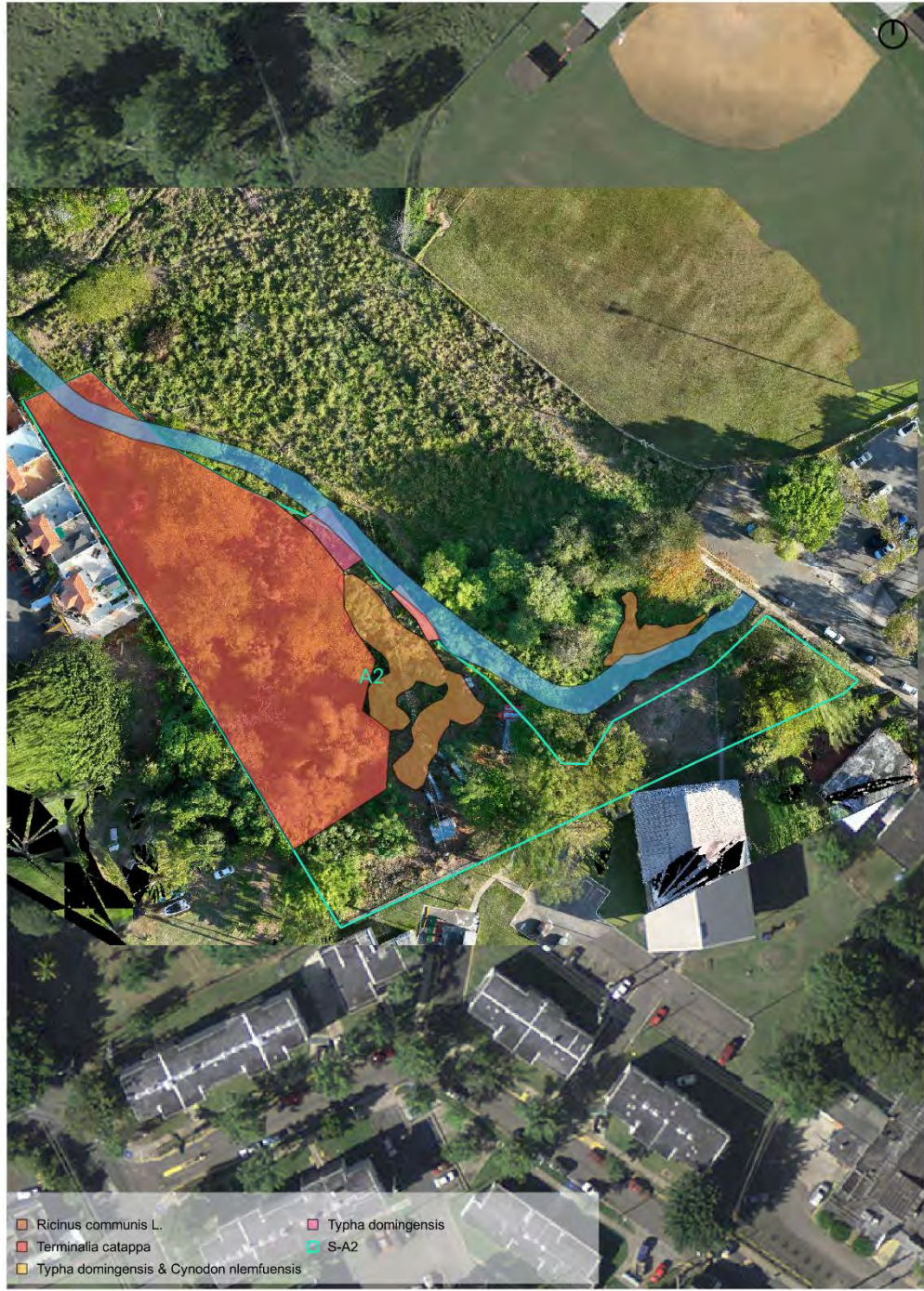
4.1.2.2 NWI Mapping

NWI delineates PEM1F as Freshwater Emergent Wetland, approximately 51 % of PEM1F was lost to construction of Challet Del Mar Condominium and private housing and 49 % of the original footprint delineated in NWI remains in S-A2 as described in the section above (**See Figure 4-5**).

4.1.2.3 Ecological Communities

S-A2 is composed of mostly ecological communities for *Terminalia catappa* is the main dominant species for the tree species in conjunction with *Ricinus communis L* (FACU). in the sapling/shrub stratum and *Cenchrus echinatus* (UPL) in the herb stratum for upland and upland transitioning species. *Terminalia catappa* (FACU) can be found bordering all of the rainwater canal/ditch all the way upland in direction of the main access road. A *Ricinus communis L* (FACU). patch can be observed in the upper middle of S-A2. A small community of *Typha domingensis* (OBL) can be observed in the rainwater canal/ditch. No vine specimens were documented in this area (**See Figure 4-6**).

**FIGURE 4-6
ECOLOGICAL COMMUNITIES S-A2**



**Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR**

**Ecological Communities - S-A2
Figure 4-6**

4.1.2.4 Sampling Points

4.1.2.4.1 Sampling Point P3 (Emergent)

Sampling Point P3 is located in the northeast area of S-A2 within PEM1F boundary, and it is an emergent wetland as delineated in the NWI (see **Attachment 3, P3 Data Form**), dominant plant species in the tree stratum *Terminalia catappa* (FACU) and *Cenchrus echinatus* (UPL) in the herbaceous stratum. No primary or secondary hydrology indicators were observed in P3. Nonetheless, low elevation for the area in combination with the rainwater canal/ditch configuration gives the impression that the area floods during significant rain events, which may present favorable conditions for the emergent wetland to continue developing. No plants for the vine stratum were identified for P3. No soil sample holes were dug in this area due to access limitations, but soil texture and surface color is consistent with P1 soil sample observations.

4.1.2.4.2 Sampling Point P4 (Upland)

Sampling Point P4 is located near the center of S-A2 border lining with the rainwater canal/ditch. Dominant species found in P3 include *Ricinus communis* L.(FACU) in the sapling/ shrub stratum and *Cynodon nlemfuensis* (UPL) and *Typha domingensis* (OBL) in the herb stratum. Although *Typha domingensis* (OBL) was identified in a small patch in the area, all specimens are contained within the rainwater canal/ditch at a lower elevation from the upland species. As mentioned in previous sections, topography for the site has been altered and the original toe of the canal/ditch bank is difficult to identify. As a conservative approach species, it has been documented to be considered. No plants for the tree stratum and vine stratum were identified for P4. No soil sample holes were dug in this area due to access limitations, but soil texture and surface color is consistent with P1 soil sample observations (see **Attachment 3, P4 Data Form**).

FIGURE 4-7
SAMPLING POINTS S-A2



Wetland Characterization – ERR
Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

Sampling Points - S-A2
Figure 4-7

5 CONCLUSIONS

5.1 WETLAND CHARACTERIZATION SUMMARY

This report identifies wetland characteristics for the proposed site project to facilitate the decision-making process for the ERR for the proposed action regarding the evaluation of potential impacts to wetland resources and the mandate established in EO11990 for wetland protection.

The report integrates data from fieldwork and other existing resources such as NWI maps, aerial imagery, surface water maps, etc. Two areas were designated as study areas for identifying wetland resources (S-A1, S-A2) within the proposed site. Two wetlands were identified: (1) Wetland 1 in S-A1 and (2) PEM1F, a wetland included in the NWI, although its delineated footprint has been reduced by approximately 51%. Nevertheless, the remaining 49% of the area designated as PEM1F still exhibits wetland characteristics.

Wetland 1, a small area in S-A1, was not delineated, but three main indicators for the presence of wetland were identified as established in the USCOE WDM. Wetland 1 lies outside the boundaries of the project site. Wetland 2, delineated in NWI, has experienced area loss but still displays wetland characteristics, although most of the vegetation present is classified as FACU or UPL. Less than 0.01 acres of the area are within the proposed project area boundary.

5.2 RECOMMENDATION

As mentioned, Wetland 1 it is out of the boundaries of the proposed project area and no action needs to be taken, with the proposed project with exemption of the establishment of sediment and erosion controls for the prevention of sediment discharges and deposition.

Wetland 2 has an area of 0.01 acres within the proposed project area, its recommended to adjust the proposed project footprint to maintain existing condition of the wetland. Redistribution of parking spaces 27 through 30 (see **Attachment 1 – Proposed Site Plan**) may be converted buffer zone, green open space or other feasible alternative that the designer may propose to retain existing conditions and area for PEM1F. Also, sediment and erosion controls have to be implemented for the prevention of sediment discharges and deposition during construction phases and operation.

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Wetland Characterization – ERR – Parking Lot Extension
Ojo de Agua Parking Lot, Rincón, PR

ATTACHMENT 1
PLOT PLANS & DESIGN DRAWINGS



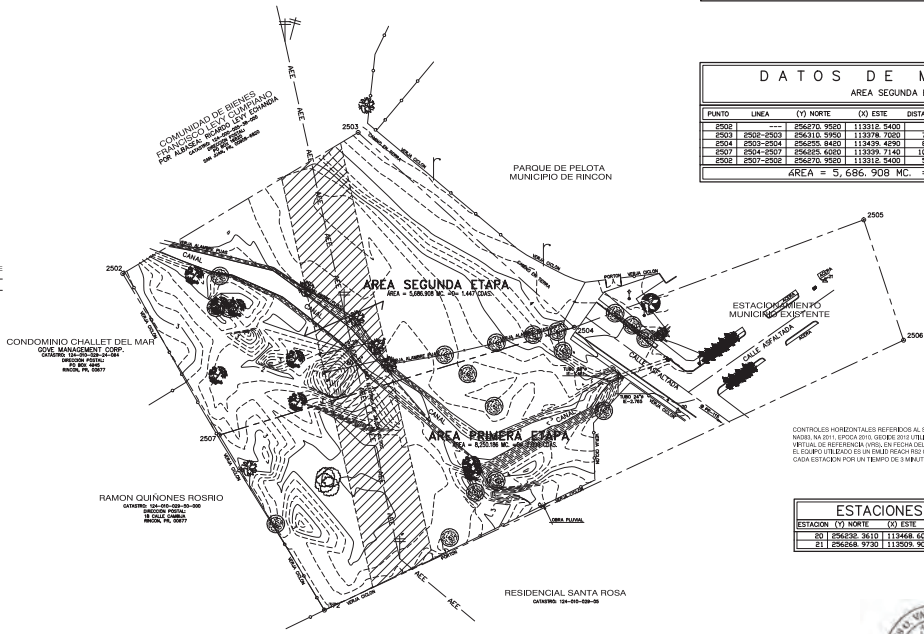
DATOS DE MENSURA						
AREA PRIMERA ETAPA						
PUNTO	LINEA	(Y) NORTE	(X) ESTE	DISTANCIA	RUMBO	DESCRIPCION
2504	---	256255.8480	113439.4890	---	---	PTD-4
2505	E204-2505	256256.2670	113280.7630	86.77	N 89°36'31"	PTD-3
2506	E205-2506	256255.2060	113251.9440	35.44	S 18°16'24"	E
375	E206-375	256176.2720	113265.2180	179.53	S 60°00'31"	V
2507	E207-2507	256255.8480	113239.7140	37.91	N 30°35'44"	V
2504	E207-2504	256255.8480	113439.4890	104.85	N 79°07'46"	E
AREA = 6, 250. 156 MC. = 2. 099 CDAS.						

DATOS DE MENSURA						
AREA SEGUNDA ETAPA						
PUNTO	LINEA	(Y) NORTE	(X) ESTE	DISTANCIA	RUMBO	DESCRIPCION
2501	E202-2501	256270.9580	113318.5400	---	---	PTD-2
2502	E203-2502	256270.9580	113318.5400	77.13	N 59°24'15"	E
2504	E203-2504	256255.8480	113439.4890	81.77	S 47°57'41"	E
2503	E204-2503	256255.8480	113251.9440	104.80	S 72°07'44"	V
2501	E207-2501	256270.9580	113318.5400	36.87	N 50°50'49"	V
AREA = 5, 686. 908 MC. = 1. 447 CDAS.						

LEYENDA	
SIMBOLO	DESCRIPCION
	CONTROL HORIZONTAL Y VERTICAL
	PUNTO COLIGACION
	ELEVACION
	PARRILLA PLUMBICA
	LIMITE DE PROPIEDAD
	VERIA CALIZA
	VERIA ALAMBRE PUNAS
	LINEA DE CENTRO
	CONTORNOS A CADA 100 MTS.
	CONTORNOS A CADA 10 MTS.
	ELEVACION DE CONTORNOS

LEYENDA FACILIDADES ELECTRICAS	
SIMBOLO	DESCRIPCION
	POSTE MADERA O ALUMINIO CON LUMINARIA
	POSTE MADERA O ALUMINIO ELECTROD.
	POSTE TELEFONICO
	TENSOR
	LINEA ELECTRICA (AEE)

LEYENDA DE ARBOLES					
LOS SIMBOLOS SE ENCUENTRAN EN EL PLANO					
	ALMONDO		MANGA		GUAYABA
	BANANO		CACAOTE		PALMA
	CEIBA		FIGUERO		MANGA
	GUAYABA		GUAYABA		GUAYABA



CONTROLES HORIZONTALES REFERIDOS AL SISTEMA DE COORDENADAS PARA PUERTO RICO BASADO EN EL EPOCH DEL SIGLO XXI UTILIZANDO EL METODO DE CORRECCION DE ESTADIA VERTICAL DE REFERENCIA UNO, EN FECHA DEL 11 DE OCTUBRE DE 2023 EN HORARIO DE 9:10 AM. EL EQUIPO USADO ES UN GNSS TRACER CON UNA PRECISION DE 0.1 METROS OBSERVANDO CADA ESTACION POR UN TIEMPO DE 3 MINUTOS.

ESTACIONES DE CONTROL			
ESTACION	(Y) NORTE	(X) ESTE	ELEVACION
01	256256.2670	113448.6000	4.80 STA. CA.
02	256268.9730	113209.9060	4.74 STA. MAG.



ESTACIONAMIENTO URBANO-PL2023-10-12
EXISTING CONDITIONS - SURVEY & TOPOGRAPHIC
SCALE: 1:500



PERSONAS	
NO.	DESCRIPCION
1	PROYECTO
2	PROYECTO
3	PROYECTO
4	PROYECTO
5	PROYECTO
6	PROYECTO
7	PROYECTO
8	PROYECTO
9	PROYECTO
10	PROYECTO

EXISTING CONDITIONS
SURVEY AND TOPOGRAPHIC
PROJECT SITE

ESTACIONAMIENTO URBANO
PR-CRP-0005905
RINCON, PUERTO RICO 00677

AS-IS PLAN
EXIST.COND.

OCTOBER 20, 2023
ST-1

ATTACHMENT 2
USDA SOIL REPORT & HYDRIC SOIL MAP



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Mayaguez Area, Puerto Rico Western Part

**AOI - Ojo De Agua - Parking Lot
Exstension**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

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scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

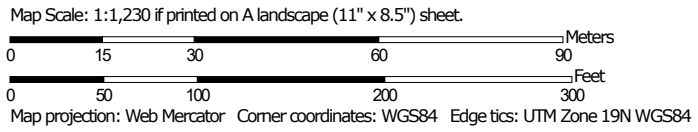
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.



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: Mayaguez Area, Puerto Rico Western Part
 Survey Area Data: Version 19, Sep 13, 2023

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
Ig	Igualdad clay	3.0	96.0%
UI	Urban land	0.1	4.0%
Totals for Area of Interest		3.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

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onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Mayaguez Area, Puerto Rico Western Part

Ig—Igualdad clay

Map Unit Setting

National map unit symbol: bysy

Elevation: 10 to 200 feet

Mean annual precipitation: 70 to 90 inches

Mean annual air temperature: 77 to 79 degrees F

Frost-free period: 365 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Igualdad and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Igualdad

Setting

Landform: Coastal plains, flood plains

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Fine textured sediments over sands

Typical profile

H1 - 0 to 4 inches: clay

H2 - 4 to 24 inches: clay

H3 - 24 to 30 inches: sandy clay

H4 - 30 to 60 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)

Depth to water table: About 6 to 30 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: C/D

Hydric soil rating: Yes

UI—Urban land

Map Unit Setting

National map unit symbol: 2yg1h

Frost-free period: 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydric soil rating: No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Land Classifications

Land Classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Rating by Map Unit

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

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Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

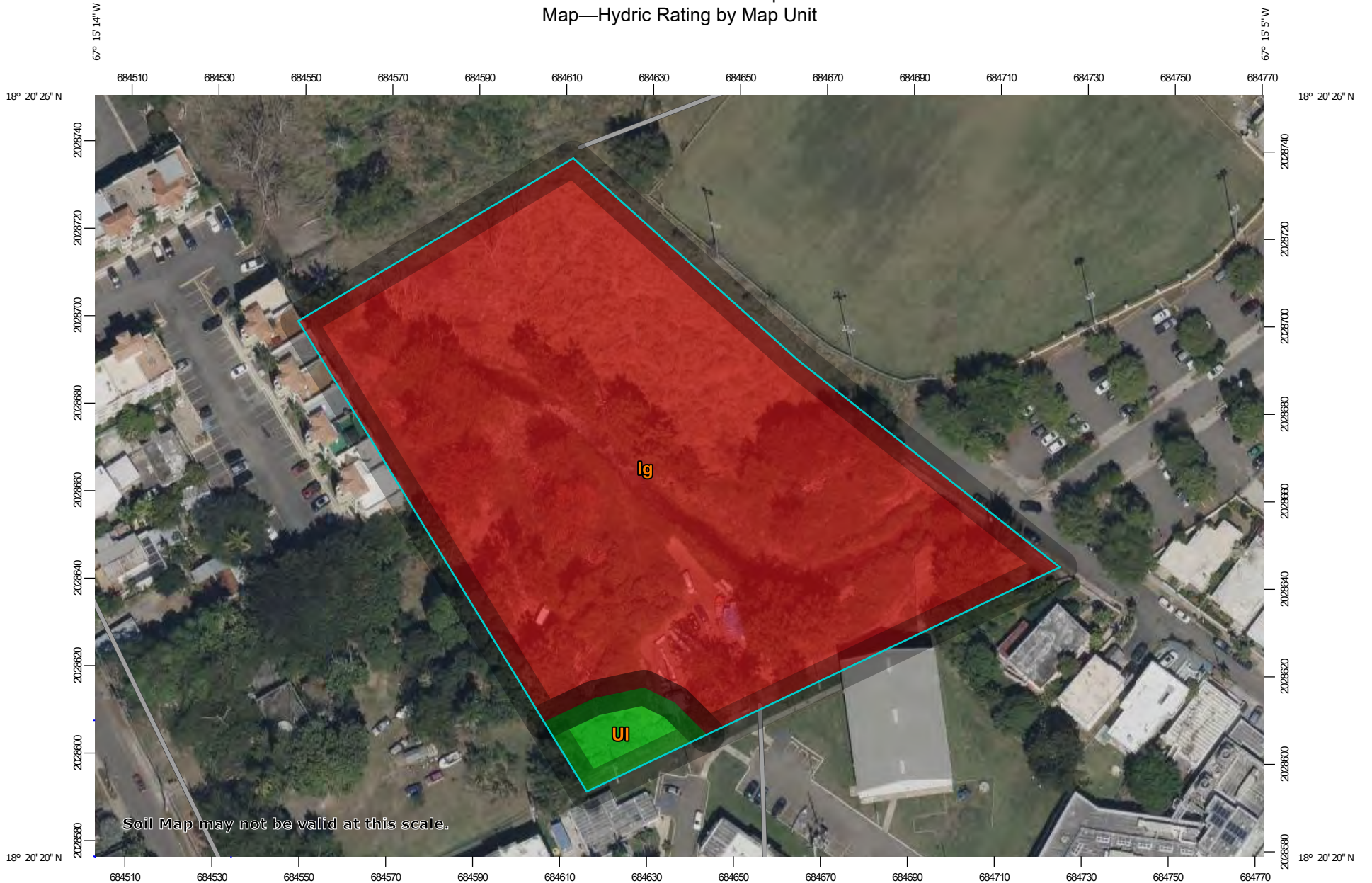
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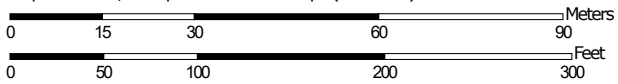
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Custom Soil Resource Report Map—Hydric Rating by Map Unit




Map Scale: 1:1,230 if printed on A landscape (11" x 8.5") sheet.



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

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available

Soil Rating Lines

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






Soil Rating Points

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


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.

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Soil Survey Area: Mayaguez Area, Puerto Rico Western Part
 Survey Area Data: Version 19, Sep 13, 2023

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.

Table—Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ig	Igualdad clay	100	3.0	96.0%
UI	Urban land	0	0.1	4.0%
Totals for Area of Interest			3.1	100.0%

Rating Options—Hydric Rating by Map Unit

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

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- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

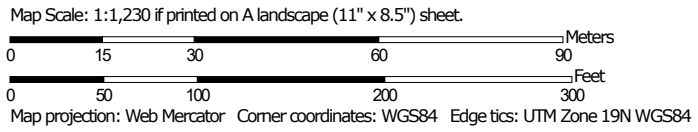
United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

Hydric Rating by Map Unit—Mayaguez Area, Puerto Rico Western Part
(AOI - Ojo De Agua - Parking Lot Exstension)




Soil Map may not be valid at this scale.









MAP LEGEND

Area of Interest (AOI)







 Area of Interest (AOI)

Soils







Soil Rating Polygons

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available


Soil Rating Lines

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available






Soil Rating Points

 Hydric (100%)
 Hydric (66 to 99%)
 Hydric (33 to 65%)
 Hydric (1 to 32%)
 Not Hydric (0%)
 Not rated or not available


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: Mayaguez Area, Puerto Rico Western Part
 Survey Area Data: Version 19, Sep 13, 2023

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.

Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ig	Igualdad clay	100	3.0	96.0%
UI	Urban land	0	0.1	4.0%
Totals for Area of Interest			3.1	100.0%

Description

This rating indicates the percentage of map units that meets the criteria for hydric soils. Map units are composed of one or more map unit components or soil types, each of which is rated as hydric soil or not hydric. Map units that are made up dominantly of hydric soils may have small areas of minor nonhydric components in the higher positions on the landform, and map units that are made up dominantly of nonhydric soils may have small areas of minor hydric components in the lower positions on the landform. Each map unit is rated based on its respective components and the percentage of each component within the map unit.

The thematic map is color coded based on the composition of hydric components. The five color classes are separated as 100 percent hydric components, 66 to 99 percent hydric components, 33 to 65 percent hydric components, 1 to 32 percent hydric components, and less than one percent hydric components.

In Web Soil Survey, the Summary by Map Unit table that is displayed below the map pane contains a column named 'Rating'. In this column the percentage of each map unit that is classified as hydric is displayed.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). Under natural conditions, these soils are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

References:

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Rating Options

Aggregation Method: Percent Present

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Percent Present" returns the cumulative percent composition of all components of a map unit for which a certain condition is true. For example, attribute "Hydric Rating by Map Unit" returns the cumulative percent composition of all components of a map unit where the corresponding hydric rating is "Yes". Conditions may be simple or complex. At runtime, the user may be able to specify all, some or none of the conditions in question.

Component Percent Cutoff: None Specified







Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

ATTACHMENT 3
DATA FIELD FORMS

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/11/2024
	Elvin Roldan
Location	
	18.339753, -67.252704
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincon
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P1
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GEOGRAPHIC INFORMATION

Latitude:	18.339752,
Longitude	-67.252703
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes

VEGETATION

Tree Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Albizia lebeck	40	Yes	UPL
2.				
3.				
4.				
5.				

Sapling/ Shrub Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Ricinus communis L.	30	Yes	FACU
2.				
3.				
4.				
5.				

Herb Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.	Megathyrsus maximus (Jac.)	60	Yes	FACU
2.	Typha domingensis	40	Yes	OBL
3.				
4.				
5.				

Woody Vine Stratum		Plot Size		
Name		Absolute Cover (%)	Dominant Species	Indicator Status
1.				
2.				
3.				
4.				
5.				

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	4	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.25	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	40	x	1	60
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	90	x	4	360
UPL	Species	40	x	5	200
Column Totals		170			620
Prevalence Index (B/A)				0.364	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	Yes
Dominance Test is >50%	No
Prevalence index is ≥ 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No

Hydrophytic Vegetation Present?	Yes
--	-----

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redox Features			
	Color Moist	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 3/1	100		M	Sandy	
8-16	10YR 3/1	100		M	Sandy	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains

²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	Yes
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

Organic material observed in first 6 in. of the horizon indicative of histosol.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	Yes	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	Yes	Depth (in.)	4
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

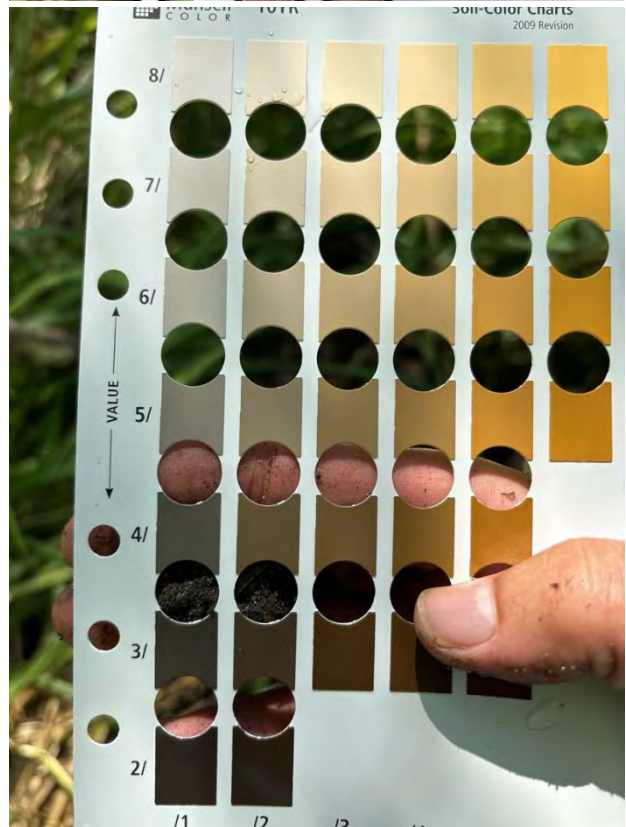
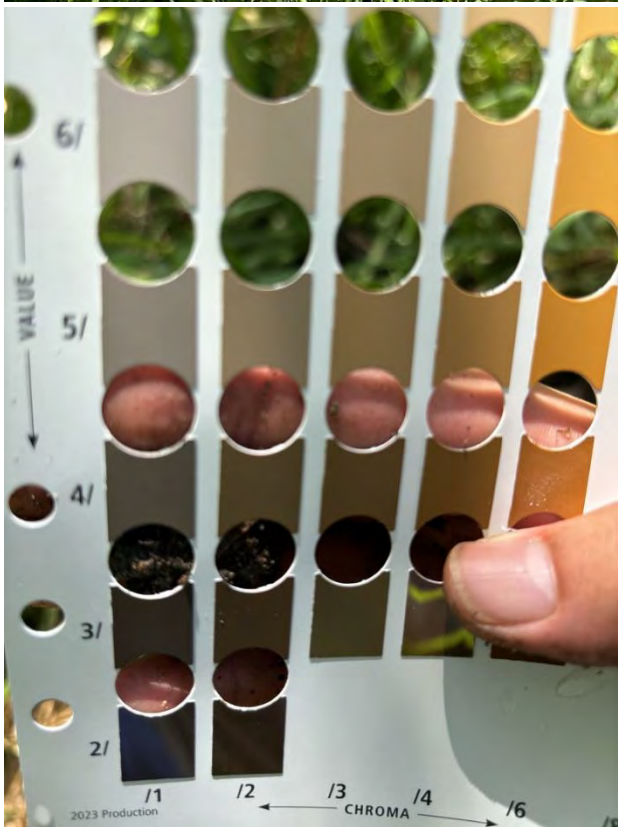
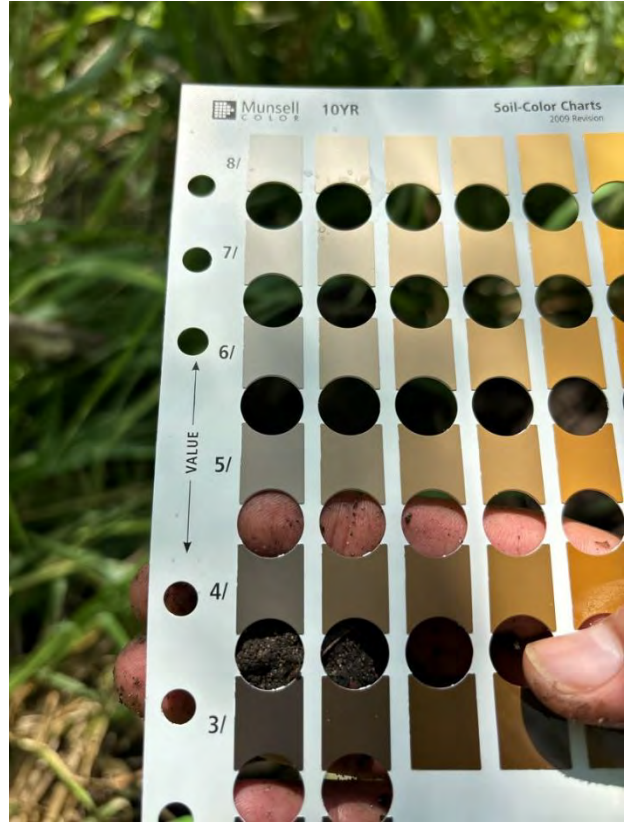
Remarks:

Surface water present at low point accumulated or ponding, no relative movement of water downstream.

NOTES

Additional Notes:











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WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339753, -67.252704
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P2
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GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	No

VEGETATION

Tree Stratum	Plot Size	30
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Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Terminalia catappa	20	Yes	FACU
2. Albizia lebeck	40	Yes	UPL
3.			
4.			
5.			

Sapling/ Shrub Stratum	Plot Size	15
-------------------------------	------------------	----

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Ricinus communis L.	20	Yes	FACU
2.			
3.			
4.			
5.			

Herb Stratum	Plot Size	5
---------------------	------------------	---

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Malvastrum coromandelium (L.)	60	Yes	FACU
2. Megathyrsus maximus (Jacq.)	30	Yes	FACU
3.			
4.			
5.			

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	5	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	0	x	1	0
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	130	x	4	520
UPL	Species	40	x	5	200
Column Totals		170		620	
Prevalence Index (B/A)				3.64	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	No
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No
Hydrophytic Vegetation Present?	No

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redux Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains
²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	No	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	No	Depth (in.)	
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

N/A

NOTES







Additional Notes:





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Aguadilla, Puerto Rico 00603

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339957, -67.253300
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P3
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GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	No
Hydric Soil Present?	Yes
Wetland Hydrology Present?	No

VEGETATION

Tree Stratum		Plot Size	30	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1. Terminalia catappa	80	Yes	FACU	
2.				
3.				
4.				
5.				

Sapling/ Shrub Stratum		Plot Size	15	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1.				
2.				
3.				
4.				
5.				

Herb Stratum		Plot Size	5	
Name	Absolute Cover (%)	Dominant Species	Indicator Status	
1. Cenchrus echinatus	40	Yes	UPL	
2.				
3.				
4.				
5.				

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
Total Number of Dominant Species Across All Strata:	2	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	0	x	1	0
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	80	x	4	320
UPL	Species	40	x	5	200
Column Totals		120		520	
Prevalence Index (B/A)				4.33	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	No
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No
<hr/>	
Hydrophytic Vegetation Present?	No

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redux Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains
²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed. Observations for surface soil consistency and texture are consisted with sample taken on P1.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	No	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mal or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor(C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	No	Depth (in.)	
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

N/A

NOTES







Additional Notes:





ENMAPPA, LLC
Urb. Victoria 126 Calle Camelia
Aguadilla, Puerto Rico 00603

WETLAND DETERMINATION DATA FORM – CARIBBEAN ISLANDS REGION

Created	
	2/21/2024
	Elvin Roldan
Updated	
	3/10/2024
	Elvin Roldan
Location	
	18.339748, -67.252845
Project	
	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR

GENERAL INFORMATION

Site Name	Wetland Characterization - Construction of Parking Lot Extension - Parking Ojo de Agua, Rincon, PR
Site ID	WD-01-RIN
Municipality	Rincón
Applicant	Applied Engineering Group
Location	PR
Investigator	Elvin Roldan
Sampling Date	February 21, 2024
Soil Map Unit Name	Ig
NWI Classification	Freshwater Emergent Wetland
Are climatic / hydrologic condition on site typical for this time of year?	Yes
If no, explain remarks.	N/A
Are Vegetation significantly disturbed?	No
Are Soil significantly disturbed?	No
Are Hydrology significantly disturbed?	No

SAMPLE POINT INFORMATION

Sample Point ID	P4
------------------------	----

GEOGRAPHIC INFORMATION

Latitude:	
Longitude	
Datum	WGS84
Cadaster	124-000-005-38

SUMMARY OF FINDINGS

Hydrophytic Vegetation Present?	Yes
Hydric Soil Present?	Yes
Wetland Hydrology Present?	Yes

VEGETATION

Tree Stratum | **Plot Size** | 30

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

Sapling/ Shrub Stratum | **Plot Size** | 15

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Ricinus communis L.	40	Yes	FACU
2.			
3.			
4.			
5.			

Herb Stratum | **Plot Size** | 5

Name	Absolute Cover (%)	Dominant Species	Indicator Status
1. Cynodon nlemfuensis	80	Yes	UPL
2. Typha domingensis	20	Yes	OBL
3.			
4.			
5.			

Woody Vine Stratum		Plot Size	30
Name	Absolute Cover (%)	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			

DOMINANCE TEST WORKED SHEET

Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)
Total Number of Dominant Species Across All Strata:	3	(B)
Percent of Dominant Species That Are OBL, FACW, or FAC:	0.33	(A/B)

PREVALENCE INDEX WORKSHEET

Total % Cover Of:		Multiply by:			
OBL	Species	20	x	1	20
FACW	Species	0	x	2	0
FAC	Species	0	x	3	0
FACU	Species	40	x	4	160
UPL	Species	80	x	5	400
Column Totals		140		580	
Prevalence Index (B/A)				4.14	

HYDROPHYTIC VEGETATION INDICATORS

Rapid Test for Hydrophytic Vegetation	Yes
Dominance Test is >50%	No
Prevalence index is :< 3.0 ¹	No
Problematic Hydrophytic Vegetation ¹ (Explain)	No
Hydrophytic Vegetation Present?	Yes

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

SOIL

Depth (in.)	Matrix		Redox Features			Remarks
	Color Moist	%	Type ¹	Loc ²	Texture	

¹Type: C = Concentration, D = Depletion, RM = Reduced Matrix, MS = Masked Grains
²Location = PL = Poor Lining, M= matrix

HYDRIC SOIL INDICATORS

Indicator	Presence
Histosol (A1)	No
Histic Epipedon (A2)	No
Black Histic (A3)	No
Hydrogen Sulfide (A4)	No
Organic Bodies (A6)	No
5 cm Mucky Mineral (A7)	No
Muck Presence (A8)	No
Depleted Below Dark Surface (A11)	No
Thick Dark Surface (A12)	No
Sandy Gleyed Matrix (S4)	No
Sandy Redox (S5)	No
Stripped Matrix (S6)	No
Dark Surface (S7)	No
Loamy Gleyed Matrix (F2)	No
Depleted Matrix (F3)	No
Redox Dark Surface (F6)	No
Depleted Dark Surface (F7)	No
Redox Depressions (F8)	No
Stratified Layers (A5)	No
Red Paren! Material (F21)	No
Very Shallow Dark Surface (TF12)	No
Other (Explain in Remarks)	No

Restrictive Layer (if observed):

Type	
Depth (in.)	

Remarks:

No hole for viewing soil horizons or indicators was done in this sampling point, all area is identified as hydric soil Ig by USDA NRCS soil report. Field verification was done on P1. Indicator A1 (Histosol) was confirmed. Observations for surface soil consistency and texture are consisted with sample taken on P1.

HYDROLOGY

Primary Indicators	Present	Secondary Indicators	Present
Surface Water (A1)	Yes	Surface Soil Cracks (B6)	No
High Water Table (A2)	No	Sparsely Vegetated Concave Surface (B8)	No
Saturation (A3)	No	Drainage Patterns (B10)	No
Water Marks (B1)	No	Dry-Season Water Table (C2)	No
Sediment Deposits (B2)	No	Saturation Visible on Aerial Imagery (C9)	No
Drift Deposits (B3)	No	Geomorphic Position (D2)	No
Algal Mat or Crust (B4)	No	Shallow Aquitard (D3)	No
Iron Deposits (B5)	No	FAC-Neutral Test (D5)	No
Inundation Visible on Aerial Imagery (B7)	No		
Water-Stained Leaves (B9)	No		
Aquatic Fauna (B13)	No		
Hydrogen Sulfide Odor (C1)	No		
Oxidized Rhizospheres on Living Roots (C3)	No		
Presence of Reduced Iron (C4)	No		
Recent Iron Reduction in Tilled Soils (C6)	No		
Thin Muck Surface (C7)	No		
Fiddler Crab Burrows (C10)	No		
Other (Explain in Remarks)	No		

Field Observations

Surface Water Present?	Yes	Depth (in.)	4
Water Table Present?	No	Depth (in.)	
Saturation Present? (includes capillary fringe)	No	Depth (in.)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), If available:

Remarks:

Ponding water on what appears to be the slope of the rainwater canal can be observed with hydrophytic vegetation concentrated in this area. No clear transition of the upslope of the channel its visible.

NOTES

Additional Notes:



INDEX

A

A2 – Sub-Area A2, 6
AEG - Applied Engineering Group, 1

D

DBH - Diameter at Breast Height, 14
DNERC - Department of Natural Resources
and Conservation, 9

E

EFW - Emergent Freshwater Wetland, 4
EO - Executive Order, 8
EPA - United States Environmental Protection
Agency, 9

F

FAC - Facultative Plants, 11, 12
FACU - Facultative Upland Plants, 12
FACW - Facultative Wetland Plants, 11
FEMA - Federal Emergency Management
Agency, 14
ft - Feet, 14

G

GIS - Geographical Information Systems, 10
GPS - Global Positioning System, 10

I

Ig - Igualdad Clay, 11
in. - inches, 14

M

m - meters, 1
MOR - Municipality of Rincón, 1

N

NEPA - National Environmental Policy Act, 1
NRCS - Natural Resources Conservation
Service, 11
NWI - National Wetland Inventory, 4
NWPL - National Wetland Plant List, 11

O

OBL - Obligated Wetland Plants, 11

P

PP - Post Processing, 10
PPK - Post Processed, 15
PR - Puerto Rico, 9
PRDOH - Puerto Rico Department of Housing,
1
PRPB - Puerto Rico Planning Board, 9

S

SA1 - Sub Area 1, 6
sq m - Square meters, 1

U

UAS - Unmanned Aircraft System, 10
UPL - Upland Plants, 12
US - United States of America, 8
USCOE - United States Corps Of Engineers, 9
USDA - United States Department of
Agriculture, 11
USDH - US Department of Housing and
Urban Development, 1
USFWS - United States Fish and Wildlife
Service, 9
USGS - United States Geological Survey, 12
USVI - US Virgin Islands, 10

W

WSS - Web Soil Survey, 11

Wild & Scenic Rivers



June 25, 2025

Project 1

Wild and Scenic Rivers

1:577,791
0 5 10 20 mi
0 10 20 40 km

Esrri, CGIAR, USGS. Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Attachment 15: Wild and Scenic Rivers

Project: Estacionamiento Urbano (PR-CRP-000505)

Location: Progreso Street Interior, Urban Area, Rincón, PR 00623 (18.340798°, -67.253325°)

Source: US National Park Services – Interactive Map of NPS Wild and Scenic Rivers

Website: <https://nps.maps.arcgis.com/apps/View/index.html?appid=ff42a57d0aae43c49a88daee0e353142>

Author: Applied Engineering Group

Attachment 16 Photos of Site Conditions

APPLIED ENGINEERING GROUP

MANAGERS. ARCHITECTS. ENGINEERS AND PLANNERS



10 St. Montecarlo Ave. #866 Río Piedras, PR 00924-5818

P.O. Box 361298 San Juan, Puerto Rico 00936-1298

1. Estacionamiento existente y área de expansión



-
- Teléfono1: (787) 771-5071 • Teléfono2: (787) 771-5069 • Teléfono3: (787) 771-5070 • Fax: (787) 771-5070 •
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