

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

Project Information

Project Name: Improvements to the facilities of Corozal Sports Complex PR-CRP-000883

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

Grant Recipient (if different than Responsible Entity): Municipality of Corozal

State/Local Identifier: Puerto Rico / Corozal

Preparer: José A. De La Rosa Reyes, Project Coordinator, Applied Engineering Group

Certifying Officer Name and Title:

Aldo A. Rivera Vázquez - Director, Permits and Environmental Compliance Division
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Priscilla Toro Rivera - Permits and Environmental Compliance Specialist

Consultant (if applicable): N/A

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

Project Location:

Urbano Ramírez Street, Corozal, PR 00783
Site coordinates: 18.347432°, -66.322768°
Cadaster number: 110-000-010-55 and 110-000-010-56

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

This proposal has as one of the main sports facilities of the Municipality of Corozal. Preparation of an environmental review (NEPA Compliance) will be considered in full compliance with the requirements of the National Environmental Policy Act and 24 CFR Part 58, HUD Environmental Review Regulations and archaeological survey communications and consultations. The project includes improvements to make the Sports Complex more resilient, functional, accessible, and valuable to the people of Corozal. The proposed changes include improvements to the swimming pools, sports courts, landscaping, as well as lighting, finishing, playgrounds, and rubber path.

The repair work at the Sports Center includes improvements to the following sports fields:

- Demolition of the existing handball wall for the construction of a new volleyball court with the preparation of green bleachers using the natural land contour. To accommodate the new volleyball court, soil removal of around 5,297.2 cubic feet will be required and excavation of around 36" depth to remove wall footing. The excavation and ground disturbance will be not less than 12" but not deeper than 24" for the new concrete slab and surrounding fence will be required. Impacted area for the court is of around 5,000 ft², (Court Length: 82 Feet and Width: 54 Feet), including the area already impacted to construct the existing handball wall to be demolished and the additional space required to accommodate the new volleyball court. The existing natural grass area will be cut into levels to create green bleachers. For the bleachers, precast concrete tiles will be installed for sitting.
- Renovation of the tennis court.
 - Surface preparation, paint application, fencing, lighting improvements and preparation of stands using the natural topography of the properties.
- Basketball Court.
 - Installation of a structural steel roof and walls for the basketball court
 - Repair of the electrical system.
 - Drainage system (roof) for stormwater management.
 - Demolition and construction of new bleachers, to extend court ceiling structure to the park limit wall.
 - Four light poles will be removed, and the existing aluminum roof will be demolished. Page New retaining wall-estimated max depth is 9'.
 - For this construction, the existing concrete slab will be demolished to provide space for the new court. The new court will require an area of 8,100 ft² (Length: 112 Feet, Width: 80 Feet) with an excavation and ground disturbance not less than 12" but not deeper than 36". The existing natural grass area at the back of the bleachers will be cut to expand the court and the construction of the new bleachers zone.
- Pool facilities
 - Renovation of the pool with its facilities, including its mechanical and electrical systems, lighting, equipment, bathrooms, office, electrical room, and existing sitting area. Although some demolition will be required, it is expected to be the minimum.
- Most of the existing facilities structures will remain, but trenches will be needed to accommodate piping and conduits. This construction will be performed in the existing pool facilities. Trenches required are expected to be at the concrete level or in the areas previously impacted during the

original construction. Excavation, trenches and ground disturbances may vary in size from 12” to 24”. New finishing of floor to be installed as part of this remodeling.

- Access and sidewalks facilities
 - The sidewalk crossing between the basketball court and pool will be extended to provide access to the upper part of the park (athletic field and playgrounds). This will require removal of soil of no more than 12” deep in an extension of 60 linear feet.
 - Extension to the path, expanding sidewalk and creating accessibility ramp in compliance with ADA (section marked in red in figure 2). Soil removal will be of around 100 m3.
- Landscaping and playgrounds
 - Replacement of the existing playground (Element 7) and the installation of a new playground (two areas within the Sports Center).
 - Both playgrounds, for their support, require a selective excavation of no more than 18” wide and not more than 36” deep to secure structures in place.
 - Pruning and/or replacing trees if necessary. The anticipated depth of the excavations for new trees will be no more than 18” wide and then 36” deep.
- Lightning
 - Replacement and improvements to existing lighting (aluminum poles with LED lamps).
- Main Entrance to the Sports Complex.
 - Redesign of the main entrance with an architectural wall (Height: 4 Feet, and 15 feet Long, landscaping, and new gate. The new architectural wall will require excavation for footing construction of 8” by 14” of depth and an excavation of 14” by 36” for fence.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001; B-18-DP-72-0001; B-19-DP-78-0002; B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162,230

Estimated Total HUD Funded Amount: \$2,559,997.89

**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:
\$2,559,997.89+\$562,021.11 = 3,122,019.00**

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"/>	<p>The closest civilian airport to the project site is Fernando Luis Ribas Dominicci Airport (SIG) in San Juan, located approximately 16.6 miles (87,648 feet) northeast of the site. The nearest military airport is the Luis Muñoz Marín International Airport (SJU), which serves as a joint military and civil airport, located about 21.8 miles (115,104 feet) from the project site.</p> <p>The project site is not situated within 15,000 feet of a military airport or within 2,500 feet of a civilian airport, ensuring compliance with Airport Hazard requirements. For further details, refer to Attachment 1.</p>
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"/>	<p>According to the Coastal Barrier Resources System Mapper, the closest CBRS Unit is PR-84, Tortuguero, located approximately 9 miles (47,532 feet) northwest of the project site. Thus, the project is in compliance with Coastal Barrier Resources requirements. Refer to Attachment 2.</p>
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"/>	<p>According to Flood Insurance Rate Map (FIRM) panel 72000C0680H, effective as of April 19, 2005, the project site is located in flood Zone X, thus outside designated flood prone areas. As a result, the project site will not be required to have flood insurance requirements. For additional details, please refer to Attachment 3.</p>
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"/>	<p>The scope of the project does not involve new construction, land use conversion, or the development of public, commercial, or industrial facilities, nor does it include the development of five or more dwelling units. The site is within the Municipio of Corozal, which is in Attainment Area for all criteria pollutants. The nearest</p>

		<p>non-attainment municipality, Toa Baja, which is in non-attainment for SO2 1-hr (2010 standard), is 8.98 miles (47,422 feet) from the site. As such, the project is in full compliance with Clean Air requirements. Refer to Attachments 4A-B.</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed action is located in the Municipality of Corozal, an inland municipality situated outside the Coastal Zone delineation. The project site is approximately 8.28 miles (43,719 feet) from the nearest boundary of the Coastal Zone. As such, the project is in full compliance with Coastal Zone Management requirements. Refer to Attachment 5.</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. Per the Historic Preservation documents, the site was previously agricultural land prior to the existing sports facility being constructed around 1990. The site is not associated with historic or legacy contamination.</p> <p>An inspection for both asbestos and lead-based paint was conducted on November 10, 2023, by Elme Rivera, a DRNA/AHERA certified inspector. Lead-based paint was identified on certain elements of the project site (see full report on appendix C), and a lead-based paint mitigation plan for its proper removal will be implemented by the general contractor. Additionally, the inspection included physical assessments of suspected asbestos-containing materials (ACM) within the park. No suspected materials were observed, consequently no samples were taken.</p> <p>A site inspection was completed on August 15, 2023. No evidence of hazardous materials, contamination, toxic chemicals and gases, or radioactive substances were observed during the site inspection. Thus, there are no environmental concerns identified at the site. The site inspection photos can be found in Attachment 16.</p> <p>A review of nearby regulated sites using the EPA tool ECHO identified ten (10) sites within a 3,000-foot radius of the project site. Only two of the regulated sites were found with violations, and both are downstream of project site. The remain sites have no violations identified. Potential impacts of these nearby regulated</p>

		<p>sites were evaluated, considering factors such as pollution sources, emissions, and compliance information as well as distance to the project site. The two sites with violations present are Alco High Tech Plastics Inc and Corozal Stp and are 2,204.20 ft and 1,398.29 ft, respectively from 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>Regarding radon, the proposal involves the construction of open structures (gazebos) and the renovation of bathrooms and an office (kiosk) inside the sport complex facility that will not be occupied for more than 4 hours. In accordance with CPD-23-103, this exemption means that radon considerations are not applicable to this analysis.</p> <p>Based on the above information, the project complies with Contamination and Toxic Substances requirements and a lead-based paint hazard mitigation plan will be required. For further details, please refer to the supporting documentation in Attachments 6A-D.</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 type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project scope applies for evaluation under the “Blanket Clearance Letter for Federally Sponsored Projects, Housing and Urban Development” issued by the USFWS and dated January 14, 2023. The Self-Certification was prepared, and agency acknowledgement was obtained, dated 10/02/2024.</p> <p>Per the Official Species List form the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location, nearest critical habitat is at 8.20 miles (43,296 feet) from site. Project will have no potential to affect to this specie or habitats due to the nature of the activities involved in the project. However, if a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Dept of Natural and Environmental Resources (DNER) will be notified to relocate the Boa. Refer to Attachments 7A-C.</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</p>

		<p>would not introduce new residents and would not involve an increase in employees or clients.</p> <p>Examination of aerial views and street views show no above ground storage tanks within the acceptable separation distance.</p> <p>The Project is in compliance with Explosive and Flammable Hazards requirements.</p> <p>Refer to Attachment 8.</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>Project does not include any activities, including new construction, acquisition of undeveloped land or conversion, which could convert agricultural land to a non- agricultural use.</p> <p>A portion of the project footprint is in a Farmland of statewide importance area, but the site is already developed so impact is anticipated. The other portion of the project area is classified as urban soil by the Puerto Rico Planning Board, shown by the map included in attachment. The project does not involve the conversion from farmland to non-farmland. Photos of the field inspection show that the site is developed. Therefore, the project is in compliance with Farmland Protection requirements. Refer to Attachments 9A-B.</p>
<p>Floodplain Management</p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the Flood Insurance Rate Map (FIRM), panel # 72000C0680H, effective as of April 19th, 2005, and the Advisory Base Flood Elevation (ABFE) map, the project is not located within a flood zone. It should be mentioned that Preliminary Flood Maps have not been developed for the project area. The project does not require a decision-making process per 24 CFR §55.20. Therefore, the project is in compliance with Floodplain Management requirements and no mitigation is required. Refer to Attachments 10A-C.</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 January 2024, consultation process began after and it was submitted to PRSHPO on 12/16/2024. On 01/10/2025, the Puerto Rico State Historic Preservation Office issued a written communication concurring with a determination of no historic properties affected within the project’s area of potential effects. The Project follows Historic Preservation requirements. Refer to EDF 106 full package at Attachment 11.</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 project involves rehabilitation of existing nonresidential buildings for non- residential use. An evaluation of noise abatement and control is not required. As such, the Project is in compliance 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 is at approx. 1,015 miles (5,364,200 feet) from project site. Therefore, the project is in compliance with Sole Source Aquifer requirements. Refer to Attachment 12.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The National Wetlands Inventory (NWI) mapping shows there are no wetlands at the project site. The nearest wetland is approximately 1,035 feet from site. The project does not require a decision-making process per 24 CFR §55.20. Therefore, the project is in compliance with Executive Order 11990 requirements, and no mitigation is required. Refer to Attachment 13.</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 (Río Mameyes, Río Icacos and Río De La Mina), located on the east side of Puerto Rico. The proposed Project is located on the west coast of Puerto Rico, approximately more than 35 miles (184,911 feet) west of said rivers. There would be no impact to Wild and Scenic Rivers and the project is in compliance with Wild and Scenic Rivers requirements. Refer to Attachment 14.</p>
<p>ENVIRONMENTAL JUSTICE</p>		
<p>Environmental Justice</p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The EJSscreen ACS Summary Report for Corozal, PR, provides key socio-economic data within a one-mile radius of the project site, highlighting notable comparisons to Puerto Rico's overall averages. Within this radius, 99% of the population identifies as people of color, consistent with Puerto Rico's predominantly Hispanic demographics. Economically, 63% of households earn less than \$25,000 annually, a figure higher than Puerto Rico's median household income of \$21,967 (U.S. Census 2022), suggesting a greater concentration of low-income households in Corozal compared to the island's average. Unemployment in the area is 16%, slightly exceeding Puerto Rico's statewide rate, which ranges from 13-15%.</p> <p>The project, which consists of improvements to an existing sports complex, has the potential to positively</p>

	<p>impact this vulnerable community. Enhanced recreational facilities can provide residents, especially youth, with safe spaces for physical activity, fostering improved health outcomes and promoting social cohesion. Additionally, the project may stimulate local economic activity by creating temporary jobs during construction and potentially attracting visitors to the area, benefiting nearby businesses. By addressing the socio-economic disparities and enhancing community resources, this initiative can contribute to long-term environmental justice and community well-being in Corozal.</p> <p>Therefore, the Project is in compliance with Environmental Justice requirements.</p> <p>Refer to supporting documentation in Attachment 15.</p>
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Field Inspection (Date and completed by):

On August 15, 2023, José De La Rosa and Diego Campos conducted a site visit to the sports complex in Corozal, PR, to evaluate the existing conditions of the project site. The inspection focused on assessing the infrastructure, layout, and environmental setting to ensure the planned improvements align with the community's needs and comply with regulatory standards.

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. Key areas of focus included identifying potential environmental impacts, evaluating the proximity to sensitive natural resources, and documenting existing land use. The site has been developed as a recreational facility. No evidence of hazardous materials, contamination, toxic chemicals and gases, or radioactive substances were observed during the site inspection. In addition, there were no storage tanks, drums, distressed vegetation or other visible evidence of contamination found during the inspection. The project is not expected to have an impact on the natural or human environment, and the project area was found to be free of potential environmental concerns such as wetlands and endangered species habitat. 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.

Refer to **Attachment 16** for the photos of existing site conditions.

Summary of Findings and Conclusions:

The proposed project, which involves enhancements to the existing sports complex, is not expected to result in any adverse effects on the natural or human environment. The site visit confirmed that the upgrades will preserve the environmental integrity of the surrounding area while revitalizing an important community resource. Furthermore, the project is anticipated to yield substantial social and economic benefits for the Municipality of Corozal. By addressing the recreational needs of the local population, the enhanced facility will provide residents, particularly youth and families, with improved opportunities for physical activity, social engagement, and community events.

The project aligns with the Municipality's broader goals of promoting community well-being and economic resilience while addressing environmental justice concerns. The inspection further supports the conclusion that this initiative will have a net positive impact, contributing to the overall quality of life for the residents of Corozal.

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
Contamination & Toxic Substances	The general contractor will ensure the removal of lead-based paint present at the project site prior to the commencement of construction activities, in compliance with the requirements set forth by governing local agencies.

Determination:

- This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR
- This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain “Authority to Use Grant Funds”** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR
- This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature:  _____ Date: February 12, 2025

Name/Title/Organization: José De La Rosa-Reyes/ Project Coordinator/ Applied Engineering Group

Certifying Officer Signature: Janette Cambrelén Date: 2/14/2025

Name/Title: Janette I. Cambrelén, Permit 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	Airport Hazards Map
2	Coastal Barrier Resources Map
3	Flood Insurance Rate Map
4	Clean Air: 4A Non-attainment area map 4B Greenbook Data
5	Coastal Zone Map
6	Contamination and Toxic Substances: 6A Toxics map with 3,000ft buffer 6B Toxic Summary Table 6C Echo reports 6D Lead-based paint and asbestos report
7	Endangered Species: 7A Critical Habitat Map 7B Blanket Clearance Letter 7C USFWS Self-Certification package
8	Explosive and Flammables Hazards Map
9	Farmland Classification: 9A PR Planning Board Terrain Use Map 9B USDA Web Soil Survey Map
10	Floodplain Management 10A FEMA Flood Insurance Rate MAP 10B FEMA Preliminary Flood Insurance Rate Map 10C FEMA Advisory Base Flood Elevation Map
11	Historic Preservation SHPO Concurrence
12	Sole Source Aquifers Map
13	Wetlands Map
14	Wild & Scenic Rivers Map
15	Environmental Justice EJ Screen Report
16	Photos of Site Conditions

Airport Hazards Map

PR-CRP-000883 - Improvements to the facilities of Corozal Sports Complex

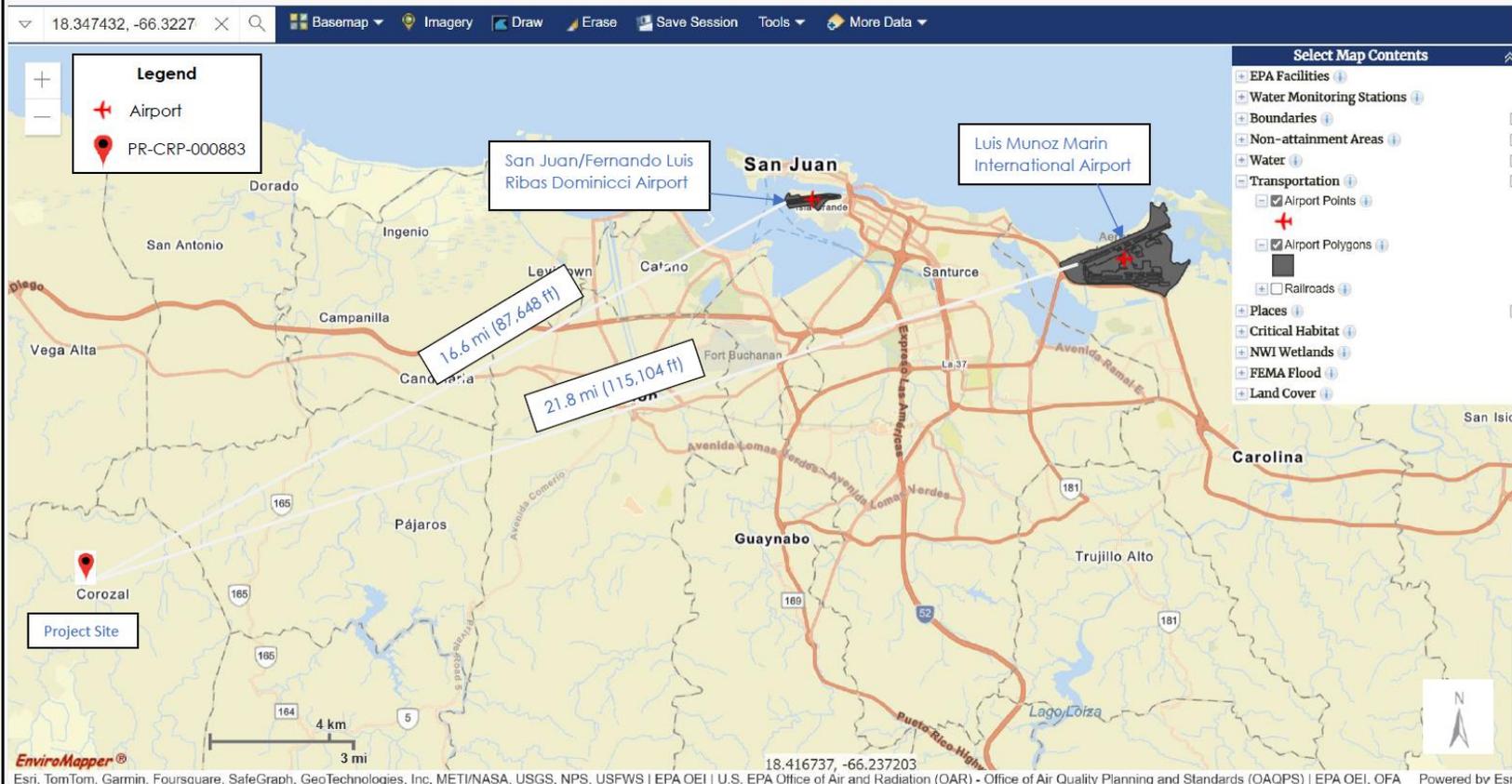
Coord: 18.347432, -66.322768

Address: Urbano Ramirez Street, Corozal, PR 00783



Version 2025.2.001

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

Prepared by ICF

Attachment 1: Airport Hazards Map

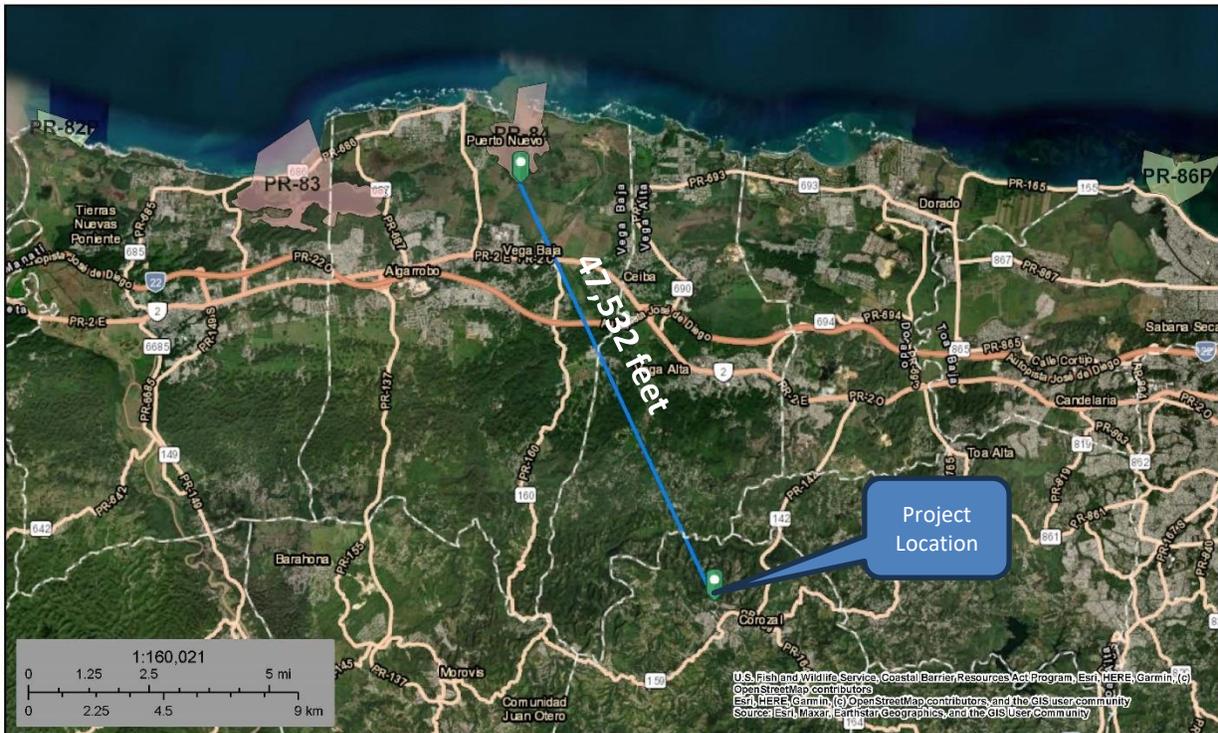
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramirez Street, Corozal, PR 00783

Source: NEPAssist

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

Prepared by: ICF



January 14, 2025

CBRS Buffer Zone

CBRS Units

Otherwise Protected Area

System Unit



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

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

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

This page was produced by the CBRS Mapper

Attachment 2: Coastal Barrier Resources

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: USFWS Coastal Barrier Resources System Mapper

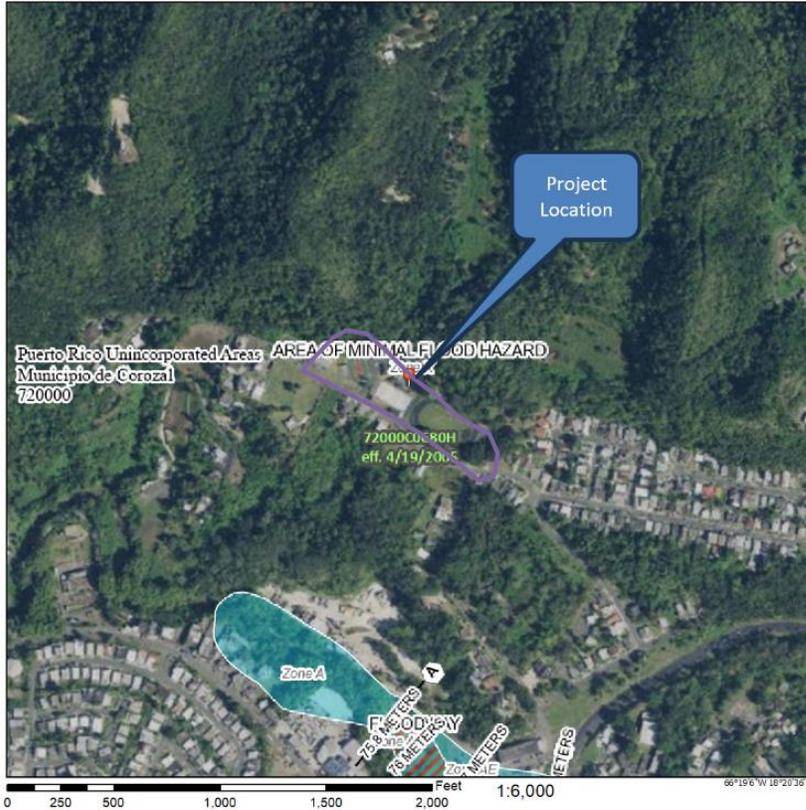
Website: <https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/>

Prepared by: ICF

National Flood Hazard Layer FIRMette



66°19'43"W 18°21'16"N



Legend

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

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, X, XE, XE1
 - With BFE or Depth Zone AE, AO, AH, V1E, 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 LIMITS
 - Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
- 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
- OTHER FEATURES**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- MAP PANELS**
 - 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 shows complex 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 1/8/2025 at 8:43 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, FIRMA panel number, and FIRMA effective date. Map images for unmapped and unmemoized areas cannot be used for regulatory purposes.

Attachment 3: Flood Insurance Rate Map

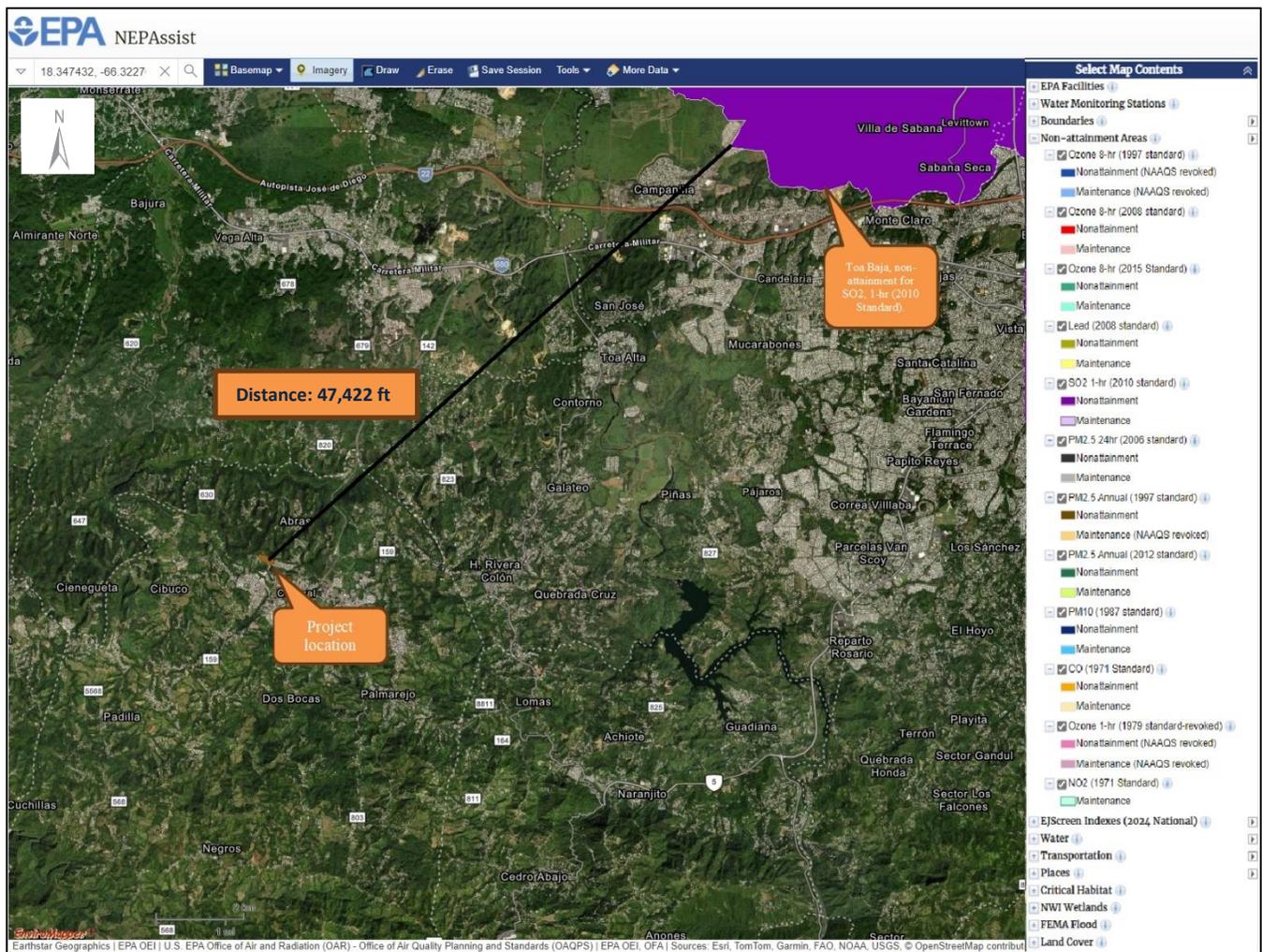
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: FEMA Flood Map Services Center

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

Prepared by: ICF



Attachment 4A: Distance to Nearest Non-Attainment County Map (Clean Air)

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: NEPAAssist

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

Prepared by: ICF

Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of December 31, 2024

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m³) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

PUERTO RICO

Important Notes

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or Part County	Population (2010)	State/County FIPS Codes
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23 24	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	52,441	72/137

Attachment 4B: EPA Greenbook Data- nonattainment areas

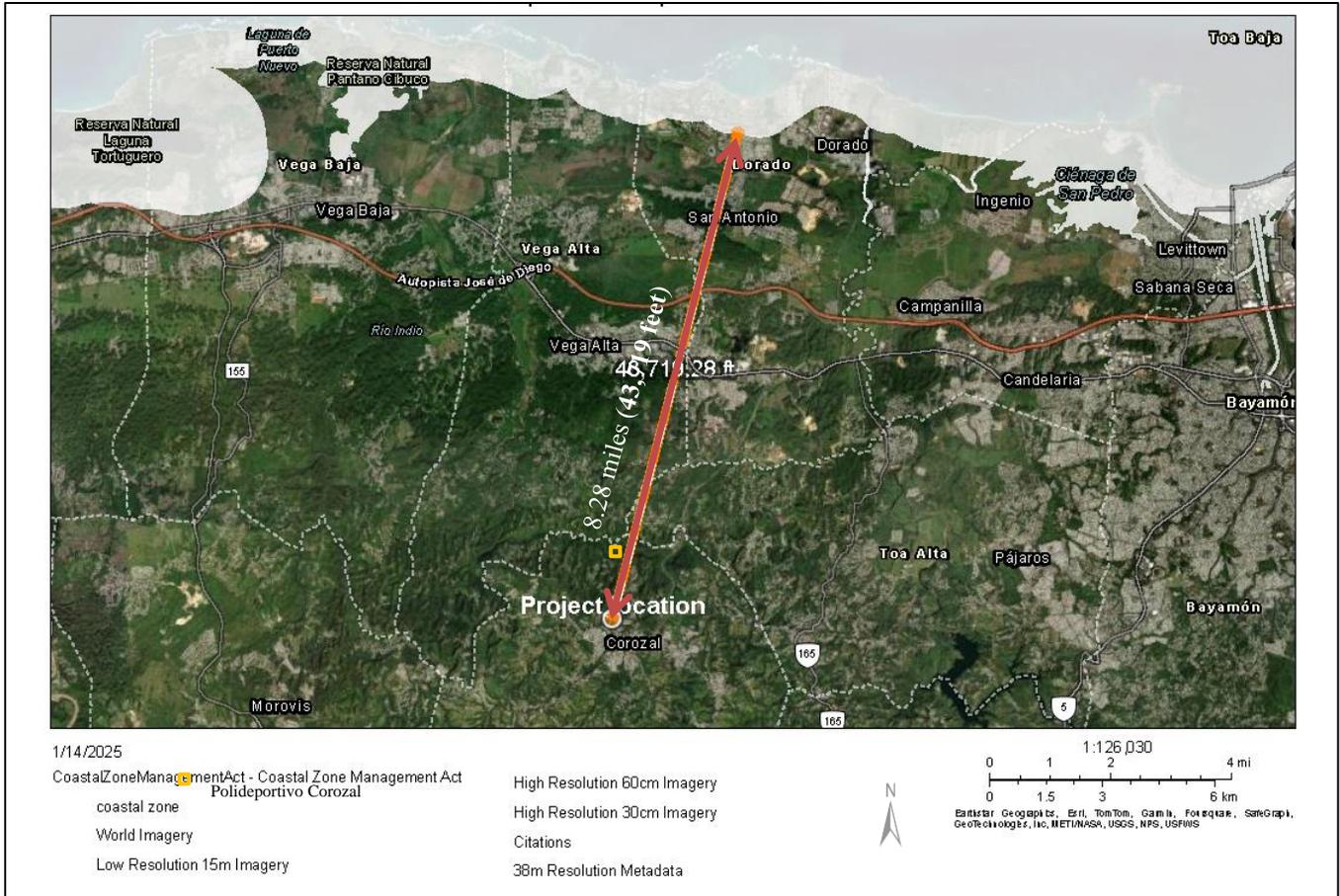
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: Puerto Rico

Source: US EPA

Website: https://www3.epa.gov/airquality/greenbook/anayo_pr.html

Prepared by: ICF



Attachment 5: Costal Zone

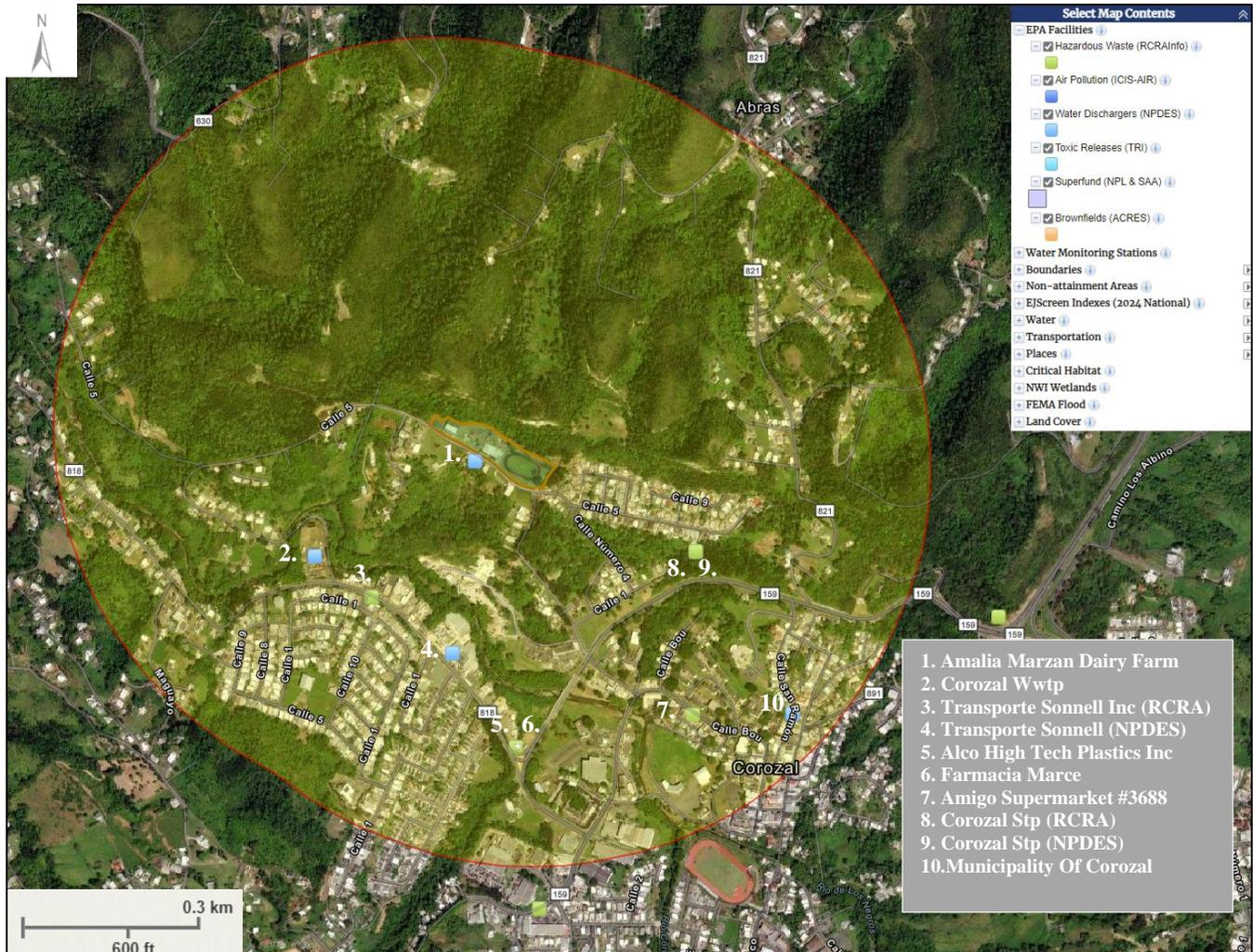
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: Puerto Rico Coastal Vulnerability Viewer

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

Prepared by: ICF



Attachment 6A: Contamination and Toxic Substances

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: EPA

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

Prepared by: ICF

ID	EPA Facility	Distance from Project Site	Direction from Project Site	Description	Compliance Status
1	Water Discharger (NPDES)	103.55 ft	SW	Amalia Marzan Dairy Farm	Not Applicable
2	Water Discharger (NPDES)	1,613.58 ft	SW	Corozal Wwtp	No Violation Identified
3	Hazardous Waste (RCRAInfo)	1,561.73 ft	SW	Transporte Sonnell Inc	No Violation Identified
4	Water Discharger (NPDES)	1,540.13 ft	S	Transporte Sonnell	No Violation Identified
5	Hazardous Waste (RCRAInfo)	2,204.20 ft	S	Alco High Tech Plastics Inc	Violation
6	Hazardous Waste (RCRAInfo)	2,204.20 ft	S	Farmacia Marce	No Violation Identified
7	Hazardous Waste (RCRAInfo)	2,328.66 ft	SE	Amigo Supermarket #3688	No Violation Identified
8	Hazardous Waste (RCRAInfo)	1,398.29 ft	E	Corozal Stp	No Violation Identified
9	Water Discharger (NPDES)	1,398.29 ft	E	Corozal Stp	Violation Identified
10	Water Discharger (NPDES)	2,867.03 ft	SE	Municipality Of Corozal	No Violation Identified

Attachment 6B: Toxic Summary Table

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: NEPAssist

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

Prepared by: ICF

Attachment 6C
ECHO Facility Reports



Detailed Facility Report

Facility Summary

AMALIA MARZAN DAIRY FARM

PR-159 KM 13.8 INTERIOR BO ABRAS, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110044246198

EPA Region: 02

Latitude: 18.347778

Longitude: -66.324167

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	09/13/2011
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)	--
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, (PRU021003)

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		110044246198					N	18.347778	-66.324167
ICIS-NPDES	CWA	PRU021003	Non-Major: Unpermitted Facility				N	18.347778	-66.324167

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
---------	--------	-------------	-----------	----------------	----------	-------------	-----------	--------------------	----------------------	-------------------------	--------------------------	-------------------------------	--------------------------	-----------	------------------

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?
210100020101	Rio Corozal	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRNR9D	RIO DE LOS NEGROS	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

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
-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles ≥ 90 (Census block group)
- Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Supplemental (default)

Related Reports

EJScreen Community Report

Download Data

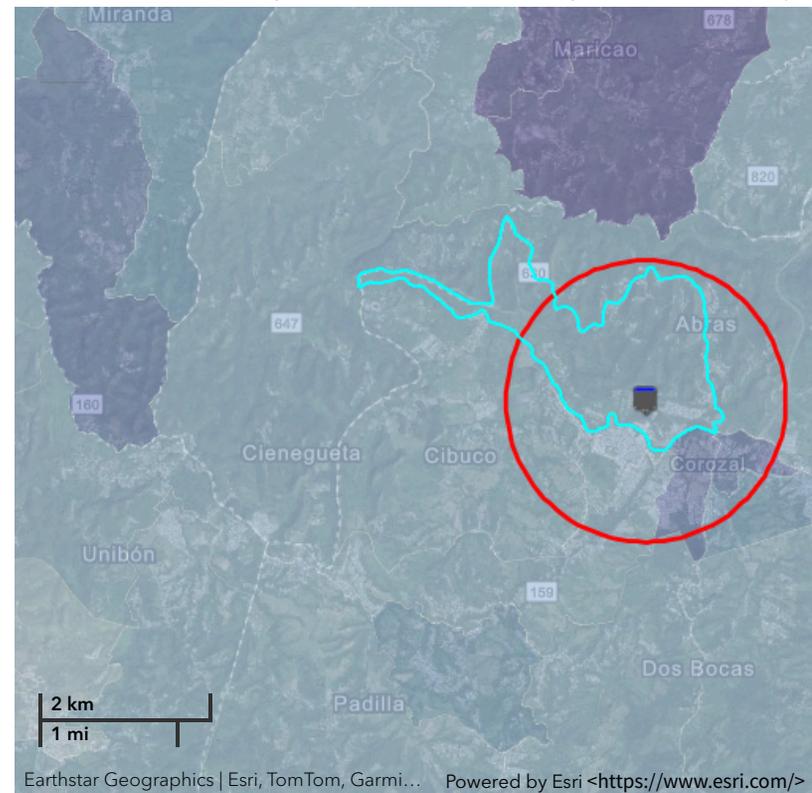
Census Block Group ID: 720475301002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	2	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	0	25	65	10	36	71
Diesel Particulate Matter	12	12	18	62	61	74
Toxic Releases to Air	1 99	1 99	1 99	85	84	1 93
Traffic Proximity	87	89	1 95	43	47	67
Lead Paint	0	1 91	1 99	0	61	1 97
Risk Management Plan (RMP) Facility Proximity	1 99	1 99	1 99	78	81	89
Hazardous Waste Proximity	79	68	79	35	22	35
Superfund Proximity	1 99	1 99	1 99	1 92	1 90	1 97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	1 99	1 99	1 99	1 93	1 93	1 98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Summary - Number of Indexes

Facility 1-mile Radius Facility Census Block Group



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	6,356
Population Density	2,037/sq.mi.
Housing Units in Area	2,505
Percent People of Color	99%
Households in Area	2,067
Households on Public Assistance	96
Persons With Low Income	5,016
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.347778
Center Longitude	-66.324167
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	891 (43.15%)
\$15,000 - \$25,000	388 (18.79%)
\$25,000 - \$50,000	456 (22.08%)
\$50,000 - \$75,000	205 (9.93%)
Greater than \$75,000	125 (6.05%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	220 (3%)
Minors 17 years and younger	1,465 (23%)
Adults 18 years and older	4,892 (77%)
Seniors 65 years and older	1,172 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,036 (48%)
African-American	0 (0%)
Hispanic-Origin	6,298 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	837 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	665 (15.81%)
9th through 12th Grade	419 (9.96%)
High School Diploma	1,240 (29.48%)
Some College/2-year	549 (13.05%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	844 (20.07%)



Detailed Facility Report

Facility Summary

COROZAL WWTP

ROAD 818, KM 1 CIBUCO WARD, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110064873294

EPA Region: 02

Latitude: 18.345711

Longitude: -66.327845

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR053040)

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		110064873294					N	18.345711	-66.327845
ICIS-NPDES	CWA	PRR053040	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.345711	-66.327845

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?
210100020101	Rio Corozal	CIBUCO RIVER	No	No	Enterococci	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRNR9D	RIO DE LOS NEGROS	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

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
-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles ≥ 90 (Census block group)
- Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Supplemental (default)

Related Reports

EJScreen Community Report

Download Data

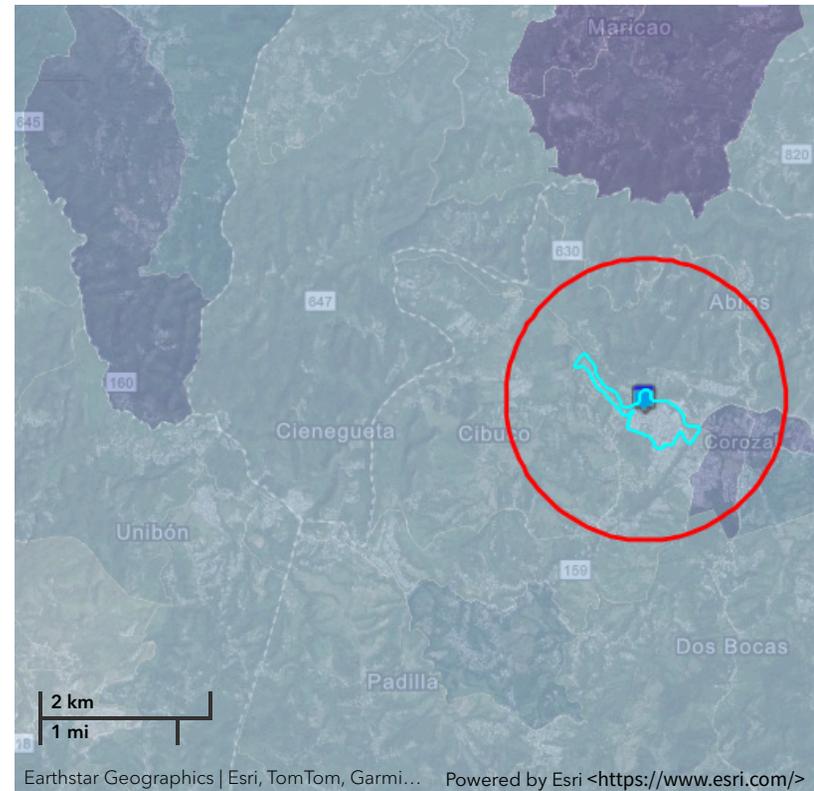
Census Block Group ID: 720475302003	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	0	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	21	25	65	33	35	71
Diesel Particulate Matter	10	11	18	54	60	74
Toxic Releases to Air	1 99	1 99	1 99	78	84	1 93
Traffic Proximity	82	89	1 95	35	46	67
Lead Paint	0	1 90	1 99	0	60	1 97
Risk Management Plan (RMP) Facility Proximity	1 99	1 99	1 99	75	82	89
Hazardous Waste Proximity	59	67	79	17	22	35
Superfund Proximity	1 99	1 99	1 99	83	1 90	1 97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	1 99	1 99	1 99	85	1 93	1 98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Summary - Number of Indexes

Facility 1-mile Radius Facility Census Block Group



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	6,184
Population Density	1,982/sq.mi.
Housing Units in Area	2,388
Percent People of Color	99%
Households in Area	1,995
Households on Public Assistance	91
Persons With Low Income	4,881
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.345711
Center Longitude	-66.327845
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	816 (40.86%)
\$15,000 - \$25,000	394 (19.73%)
\$25,000 - \$50,000	455 (22.78%)
\$50,000 - \$75,000	217 (10.87%)
Greater than \$75,000	115 (5.76%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	231 (4%)
Minors 17 years and younger	1,388 (22%)
Adults 18 years and older	4,798 (78%)
Seniors 65 years and older	1,084 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	2,945 (48%)
African-American	0 (0%)
Hispanic-Origin	6,131 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	789 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	648 (15.78%)
9th through 12th Grade	414 (10.08%)
High School Diploma	1,154 (28.1%)
Some College/2-year	538 (13.1%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	849 (20.67%)



Detailed Facility Report

Facility Summary

TRANSPORTE SONNELL INC

CARR 818 KM 0.4 BO CIBUCO, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110031344668

EPA Region: 02

Latitude: 18.344816

Longitude: -66.32655

Locational Data Source: RCRAINFO

Industries: Transit and Ground Passenger Transportation

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	09/19/2007
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, (PRR000020008)

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		110031344668					N	18.344816	-66.32655

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
RCRAInfo	RCRA	PRR000020008	VSQG	Active (H)			N	18.344816	-66.32655

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110031344668	TRANSPORTE SONNELL INC	CARR 818 KM 0.4 BO CIBUCO, COROZAL, PR 00783	Corozal Municipio
RCRAInfo	RCRA	PRR000020008	TRANSPORTE SONNELL INC	CARR 818 KM 0.4 BO CIBUCO, COROZAL, PR 00783	Corozal Municipio

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
RCRAInfo	PRR000020008	48541	School and Employee Bus Transportation

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
RCRA	PRR000020008	No	01/18/2025	0	01/17/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000020008)		01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions

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

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
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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
-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

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 10/19/2024)

Source ID	Waste Description	2022	2023	2024	2025
PRR000020008	Hazardous Waste	851	1,192	1,006	--
PRR000020008	Acute Hazardous Waste	0	0	0	--
PRR000020008	Pharmaceutical Hazardous Waste	0	0	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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

Download Data

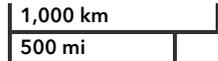
Census Block Group ID: 720475302003	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	0	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	21	25	65	33	36	71
Diesel Particulate Matter	10	11	18	54	61	74
Toxic Releases to Air	📍 99	📍 99	📍 99	78	84	📍 93
Traffic Proximity	82	89	📍 95	35	46	67
Lead Paint	0	📍 91	📍 99	0	61	📍 97

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Risk Management Plan (RMP) Facility Proximity	99	99	99	75	82	89
Hazardous Waste Proximity	59	67	79	17	22	35
Superfund Proximity	99	99	99	83	91	97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	99	99	99	85	93	98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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	6,579
Population Density	2,108/sq.mi.
Housing Units in Area	2,573
Percent People of Color	99%
Households in Area	2,134
Households on Public Assistance	91
Persons With Low Income	5,200
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.344816
Center Longitude	-66.32655
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	892 (41.82%)
\$15,000 - \$25,000	414 (19.41%)
\$25,000 - \$50,000	482 (22.6%)
\$50,000 - \$75,000	220 (10.31%)
Greater than \$75,000	125 (5.86%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	239 (4%)
Minors 17 years and younger	1,477 (22%)
Adults 18 years and older	5,103 (78%)
Seniors 65 years and older	1,189 (18%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,121 (47%)
African-American	0 (0%)
Hispanic-Origin	6,522 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	836 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	699 (15.96%)
9th through 12th Grade	426 (9.73%)
High School Diploma	1,253 (28.61%)
Some College/2-year	587 (13.4%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	879 (20.07%)



Detailed Facility Report

Facility Summary

TRANSPORTE SONNELL

CARR. #818 KM 0.4, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110070688174

EPA Region: 02

Latitude: 18.343581

Longitude: -66.324671

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)	6
Qtrs with Significant Violation	6
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PRR05J00P)

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		110070688174					N	18.343581	-66.324671
ICIS-NPDES	CWA	PRR05J00P	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.343581	-66.324671

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110070688174	TRANSPORTE SONNELL	CARR. #818 KM 0.4, COROZAL, PR 00783	Corozal Municipio
ICIS-NPDES	CWA	PRR05J00P	TRANSPORTE SONNELL	CARR. #818 KM 0.4, COROZAL, PR 00783	

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PRR05J00P	4173	Bus Terminal And Service Facilities

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	PRR05J00P	No	09/30/2024	6	01/17/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA (Source ID: PRR05J00P)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-01/17/25
	Facility-Level Status	Significant/Category I Noncompliance	No Violation Identified	Undetermined										
	Quarterly Noncompliance Report History	Failure to Report DMR - Not Received	Resolved											
	Late or Missing Discharge Monitoring Report (DMR) Measurements													
	Counts of Missing DMR Measurements		4											

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?
210100020101	Rio Corozal	RIO CIBUCO	No	No	Enterococci	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRNR9D	RIO DE LOS NEGROS	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

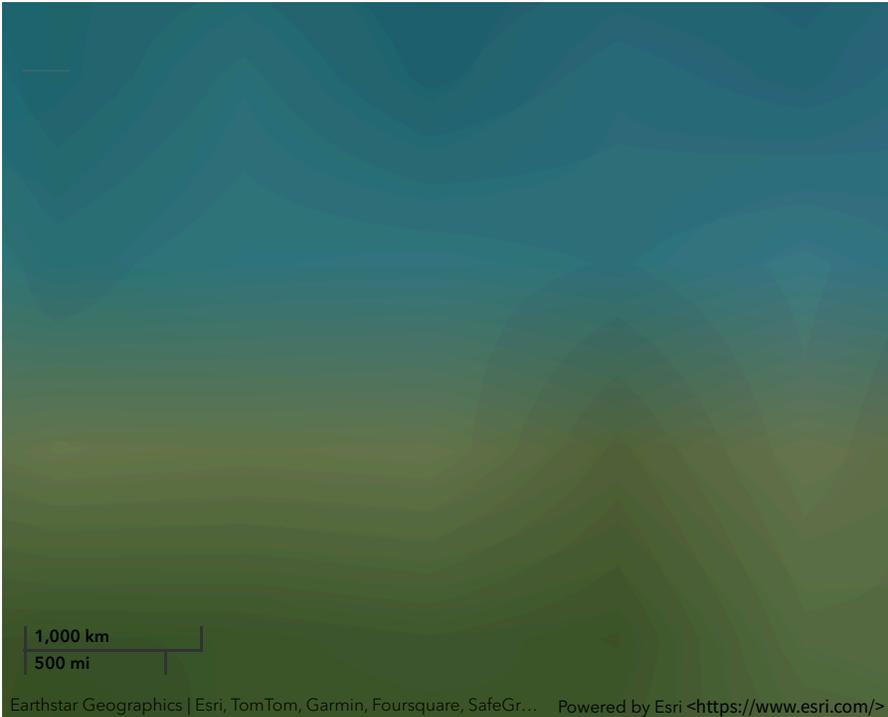
Download Data

Census Block Group ID: 720475302003	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	0	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	21	26	65	33	36	71
Diesel Particulate Matter	10	11	18	54	60	74
Toxic Releases to Air	1 99	1 99	1 99	78	84	1 93
Traffic Proximity	82	89	1 95	35	46	67
Lead Paint	0	1 92	1 99	0	63	1 97
Risk Management Plan (RMP) Facility Proximity	1 99	1 99	1 99	75	82	89
Hazardous Waste Proximity	59	67	79	17	21	35
Superfund Proximity	1 99	1 99	1 99	83	1 90	1 97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	1 99	1 99	1 99	85	1 93	1 98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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	7,046
Population Density	2,258/sq.mi.
Housing Units in Area	2,800
Percent People of Color	99%
Households in Area	2,297
Households on Public Assistance	91
Persons With Low Income	5,577
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.343581
Center Longitude	-66.324671
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	976 (42.45%)
\$15,000 - \$25,000	442 (19.23%)
\$25,000 - \$50,000	522 (22.71%)
\$50,000 - \$75,000	221 (9.61%)
Greater than \$75,000	138 (6%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	244 (3%)
Minors 17 years and younger	1,571 (22%)
Adults 18 years and older	5,477 (78%)
Seniors 65 years and older	1,326 (19%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,316 (47%)
African-American	0 (0%)
Hispanic-Origin	6,987 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	899 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	756 (16%)
9th through 12th Grade	435 (9.21%)
High School Diploma	1,383 (29.28%)
Some College/2-year	652 (13.8%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	919 (19.45%)



Detailed Facility Report

Facility Summary

ALCO HIGH TECH PLASTICS INC

**RD 159, KM. 13.5 URBANIZACION INDUSTRIAL CIBUCO,
COROZAL, PR 00783**

FRS (Facility Registry Service) ID: 110071140093

EPA Region: 02

Latitude: 18.341098

Longitude: -66.322823

Locational Data Source: FRS

Industries: Plastics and Rubber Products Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	03/27/2024
Compliance Status	Violation
Qtrs in Noncompliance (of 12)	2
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	1
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 LQG, (PRR000027003)
- 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		110071140093					N	18.341098	-66.322823

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
RCRAInfo	RCRA	PRR000027003	LQG	Active (H)			N	18.341098	-66.322823

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071140093	ALCO HIGH TECH PLASTICS INC	RD 159, KM. 13.5 URBANIZACION INDUSTRIAL CIBUCO, COROZAL, PR 00783	Corozal Municipio
RCRAInfo	RCRA	PRR000027003	ALCO HIGH TECH PLASTICS INC	RD 159 KM 13.5 URBANIZACION INDUSTRIAL CIBUCO, COROZAL, PR 00783	Corozal Municipio

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
RCRAInfo	PRR000027003	326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing

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

RCRA (Hazardous Waste (Resource Conservation and Recovery Act) Compliance Pipeline (Compliance Monitoring → Violations → Enforcement Actions) (10 Years)

This table shows how violations relate to compliance monitoring (CM) activities and enforcement. Currently available for CAA and RCRA only. Full CM history available below.

Compliance Monitoring				Violations				Enforcement Actions			
Source ID	Compliance Monitoring Type	Compliance Monitoring Agency	Compliance Monitoring Date	Violation Type	Violation Agency	Violation Determined Date	Return to Compliance Date	Enforcement Type	Enforcement Action Date	Penalty Assessed	Comp Action Cost
PRR000027003	Compliance Evaluation Inspection	EPA	03/27/2024	261.A: Listing - General	EPA	07/17/2024	Open	Written Informal	07/17/2024	--	--
				262.A: Generators - General							
				262.A: Generators - General							
				262.A: Generators - General							
				262.A: Generators - General							
				262.A: Generators - General							
				262.A: Generators - General							
				262.B: Generators - Manifest							
				273.B: Universal Waste - Small Quantity Handlers							
				279.C: Used Oil - Generators							
				279.I: Used Oil - Dust Suppressant and Disposal							

Entries in italics are not counted as compliance monitoring strategy activities. For programs without compliance monitoring strategies, entries in italics are not counted as on-site activities within EPA's Annual Results.

Compliance Monitoring History Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
<i>RCRA</i>	<i>PRR000027003</i>	<i>ICIS</i>	<i>Information Request</i>	<i>Formal</i>	<i>EPA</i>	<i>07/17/2024</i>	
RCRA	PRR000027003	RCRAInfo/ICIS	Inspection/Evaluation	Compliance Evaluation Inspection	EPA	03/27/2024	Violations Or Compliance Issues Were Found

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	PRR000027003	No	01/18/2025	2	01/17/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000027003)		01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	No Violation Identified	Violation Identified	Violation									
	Violation	Agency											
RCRA	262.A: Generators - General	EPA										07/17/2024	→
RCRA	262.A: Generators - General	EPA										07/17/2024	→
RCRA	262.A: Generators - General	EPA										07/17/2024	→
RCRA	262.A: Generators - General	EPA										07/17/2024	→
RCRA	262.A: Generators - General	EPA										07/17/2024	→
RCRA	262.B: Generators - Manifest	EPA										07/17/2024	→
RCRA	273.B: Universal Waste - Small Quantity Handlers	EPA										07/17/2024	→
RCRA	279.C: Used Oil - Generators	EPA										07/17/2024	→
RCRA	279.I: Used Oil - Dust Suppressant and Disposal	EPA										07/17/2024	→
RCRA	261.A: Listing - General	EPA										07/17/2024	→

Informal Enforcement Actions Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
RCRA	RCRAInfo	PRR000027003	WRITTEN INFORMAL	EPA	07/17/2024

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

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

e-Manifest Hazardous Waste History (Public)

Hazardous Waste Shipped in Kilograms by Year (Through 10/19/2024)

Source ID	Waste Description	2022	2023	2024	2025
PRR000027003	Hazardous Waste	19,284	28,442	14,440	--
PRR000027003	Acute Hazardous Waste	0	0	0	--
PRR000027003	Pharmaceutical Hazardous Waste	0	0	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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles ≥ 90 (Census block group)
- Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

[Download Data](#)

Census Block Group ID: 720475302001	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	4	5	6	0	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	8	27	65	22	38	71
Diesel Particulate Matter	7	11	18	45	60	74
Toxic Releases to Air	98	99	99	73	84	93
Traffic Proximity	79	89	95	28	46	67
Lead Paint	80	92	99	51	65	97
Risk Management Plan (RMP) Facility Proximity	99	99	99	84	82	89
Hazardous Waste Proximity	52	66	79	15	20	35
Superfund Proximity	99	99	99	80	91	97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	99	99	99	85	93	98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group





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	7,339
Population Density	2,352/sq.mi.
Housing Units in Area	2,949
Percent People of Color	99%
Households in Area	2,397
Households on Public Assistance	87
Persons With Low Income	5,815
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.341098
Center Longitude	-66.322823
Total Area	3.121 sq.mi.

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	246 (3%)
Minors 17 years and younger	1,599 (22%)
Adults 18 years and older	5,740 (78%)
Seniors 65 years and older	1,431 (19%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,413 (47%)
African-American	0 (0%)
Hispanic-Origin	7,281 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	917 (12%)

Geography	
Land Area	100%
Water Area	0%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,013 (42.19%)
\$15,000 - \$25,000	459 (19.12%)
\$25,000 - \$50,000	563 (23.45%)
\$50,000 - \$75,000	222 (9.25%)
Greater than \$75,000	144 (6%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	793 (15.94%)
9th through 12th Grade	432 (8.68%)
High School Diploma	1,480 (29.74%)
Some College/2-year	706 (14.19%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	945 (18.99%)



Detailed Facility Report

Facility Summary

FARMACIA MARCE

CARR 818 KM 0.1, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110071140127

EPA Region: 02

Latitude: 18.341535

Longitude: -66.32322

Locational Data Source: RCRAINFO

Industries: Health and Personal Care Stores

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
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): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000027482)

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		110071140127					N	18.341535	-66.32322

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
RCRAInfo	RCRA	PRR000027482	VSQG	Active (H)			N	18.341535	-66.32322

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110071140127	FARMACIA MARCE	CARR 818 KM 0.1, COROZAL, PR 00783	Corozal Municipio
RCRAInfo	RCRA	PRR000027482	FARMACIA MARCE	CARR 818 KM 0.1, COROZAL, PR 00783	Corozal Municipio

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
RCRAInfo	PRR000027482	446110	Pharmacies and Drug Stores

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

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
RCRA	PRR000027482	No	01/18/2025	0	01/17/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000027482)		01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions

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

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

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720475302003	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	0	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	21	27	65	33	38	71
Diesel Particulate Matter	10	12	18	54	61	74
Toxic Releases to Air	99	99	99	78	84	93
Traffic Proximity	82	89	95	35	46	67
Lead Paint	0	93	99	0	65	97
Risk Management Plan (RMP) Facility Proximity	99	99	99	75	82	89
Hazardous Waste Proximity	59	66	79	17	20	35
Superfund Proximity	99	99	99	83	91	97
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	99	99	99	85	93	98

Census Block Group ID: 720475302003	US (Percentile)			State (Percentile)		
Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group

1,000 km
500 mi

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	7,302
Population Density	2,340/sq.mi.
Housing Units in Area	2,928
Percent People of Color	99%
Households in Area	2,386
Households on Public Assistance	88
Persons With Low Income	5,785
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.341535
Center Longitude	-66.32322
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,007 (42.19%)
\$15,000 - \$25,000	457 (19.15%)
\$25,000 - \$50,000	557 (23.33%)
\$50,000 - \$75,000	222 (9.3%)
Greater than \$75,000	144 (6.03%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	247 (3%)
Minors 17 years and younger	1,597 (22%)
Adults 18 years and older	5,706 (78%)
Seniors 65 years and older	1,416 (19%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,400 (47%)
African-American	0 (0%)
Hispanic-Origin	7,243 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	919 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	788 (15.95%)
9th through 12th Grade	432 (8.74%)
High School Diploma	1,467 (29.69%)
Some College/2-year	697 (14.11%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	943 (19.09%)



Detailed Facility Report

Facility Summary

AMIGO SUPERMARKET #3688

CARR 891 KM 0.1 BARRIO PUEBLO, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110031387899

EPA Region: 02

Latitude: 18.342239

Longitude: -66.319131

Locational Data Source: ICIS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
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): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000019679)

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		110031387899					N	18.342239	-66.319131

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
ICIS		140002255					N	18.3422389	-66.3191306
RCRAInfo	RCRA	PRR000019679	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110031387899	AMIGO SUPERMARKET #3688	CARR 891 KM 0.1 BARRIO PUEBLO, COROZAL, PR 00783	Corozal Municipio
ICIS		1400002255	AMIGO SUPERMARKET #3688	CARR 891 KM 0.1 BARRIO PUEBLO, COROZAL, PR 00783	Corozal Municipio
RCRAInfo	RCRA	PRR000019679	AMIGO SUPERMARKET #3688	CARR 891 KM 0.1 BARRIO PUEBLO, COROZAL, PR 00783	Corozal Municipio

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

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
RCRA	PRR000019679	No	01/18/2025	0	01/17/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000019679)		01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions

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

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?
--	---	---	---------------------------------	--------------------------------------	--	---

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

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
-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720475303002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	6	5	6	4	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	40	28	65	56	38	71
Diesel Particulate Matter	14	12	18	71	61	77
Toxic Releases to Air	99	99	99	93	84	95
Traffic Proximity	95	89	95	67	47	67
Lead Paint	99	93	99	93	66	97
Risk Management Plan (RMP) Facility Proximity	99	99	99	89	81	89
Hazardous Waste Proximity	71	66	79	22	21	35
Superfund Proximity	99	99	99	97	91	98
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	99	99	99	98	93	98

Census Block Group ID: 720475303002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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	7,292
Population Density	2,336/sq.mi.
Housing Units in Area	2,994
Percent People of Color	99%
Households in Area	2,401
Households on Public Assistance	86
Persons With Low Income	5,754
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.342239
Center Longitude	-66.319131
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,017 (42.36%)
\$15,000 - \$25,000	450 (18.74%)
\$25,000 - \$50,000	572 (23.82%)
\$50,000 - \$75,000	209 (8.7%)
Greater than \$75,000	153 (6.37%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	234 (3%)
Minors 17 years and younger	1,568 (22%)
Adults 18 years and older	5,727 (79%)
Seniors 65 years and older	1,462 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,423 (47%)
African-American	0 (0%)
Hispanic-Origin	7,230 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	930 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	790 (15.88%)
9th through 12th Grade	419 (8.42%)
High School Diploma	1,501 (30.16%)
Some College/2-year	697 (14.01%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	947 (19.03%)



Detailed Facility Report

Facility Summary

COROZAL STP

STATE ROAD 818 KM 0.9, COROZAL, PR 00783

FRS (Facility Registry Service) ID: 110006622690

EPA Region: 02

Latitude: 18.345806

Longitude: -66.319075

Locational Data Source: NPDES

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	2
Date of Last Compliance Monitoring Activity	06/10/2024
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	1
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	1
Penalties from Formal Enforcement Actions (5 years)	\$0
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	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): Major, Permit Effective (PR0020451)

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689455)

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		110006622690					N	18.345806	-66.319075
ICIS		2655225					N	18.345784	-66.319058
ICIS		2444567					N	18.345784	-66.319058
ICIS		44451					N	18.345784	-66.319058
ICIS-NPDES	CWA	PR0020451	Major: NPDES Individual Permit	Effective	POTW, Pretreatment	08/31/2026	N	18.347778	-66.319444
RCRAInfo	RCRA	PRD000689455	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110006622690	COROZAL STP	STATE ROAD 818 KM 0.9, COROZAL, PR 00783	Corozal Municipio

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	Pollutant	Disch Point	Mon Loc	Freq													
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0020451/00310> [REDACTED] <https://epa.gov/effluent-charts#pr0020451/00310>	001 - A	Effluent Gross	NMth										84%			
CWA	Enterococci <effluent-charts#pr0020451/61211> [REDACTED] <https://epa.gov/effluent-charts#pr0020451/61211>	001 - A	Effluent Gross	NMth		43%	214%	396%	86%		262%	643%	158%	23%	29%	402%	
CWA	Solids, suspended percent removal <effluent-charts#pr0020451/81011> [REDACTED] <https://epa.gov/effluent-charts#pr0020451/81011>	001 - A	Percent Removal	Neither								33%					
CWA	Solids, total suspended <effluent-charts#pr0020451/00530> [REDACTED] <https://epa.gov/effluent-charts#pr0020451/00530>	001 - A	Effluent Gross	Mthly						60%		83%	50%	13%			
CWA	Solids, total suspended <effluent-charts#pr0020451/00530> [REDACTED] <https://epa.gov/effluent-charts#pr0020451/00530>	001 - A	Effluent Gross	NMth	2%	33%				278%		389%	344%	91%	84%		

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA	pH <effluent-charts#pr0020451/00400> <https://epa.gov/effluent-charts#pr0020451/00400>	001 - A	Effluent Gross	Neither	LIMIT VIOLATION	LIMIT VIOLATION								
Permit Schedule Violations														
CWA	Pretreatment Program Implementation Report													12/01/2024

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRD000689455)		01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24
	Facility-Level Status	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
CWA	ICIS-NPDES	301	NPDES/PR0020451	Judicial	02-2011-0007	EPA	PRASA - Puerto Nuevo Regional WWTP et al.	09/15/2015	2	05/23/2016 03/22/2024	\$0 \$0	-- --	-- --	-- --	\$700,000,000 \$530,000,000

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?
210100020101	Rio Corozal	RIO LOS NEGROS	No	No	Enterococci	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRNR9D	RIO DE LOS NEGROS	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

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
-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

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	2019	2020	2021	2022	2023
PR0020451	DMR Pollutant Loadings (lb/year)	799,515	1,032,269	798,490	862,915	499,088
PR0020451	DMR Pollutant Loadings - Load Over Limit (lb/year)	0	0	0	0	212
PR0020451	DMR Conventional Loadings (lb/year)	--	--	--	31,889	--
PR0020451	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	0	--
PR0020451	DMR Toxic-Weighted Loadings (lb-eq/year)	11.55	8.36	13.71	15.79	4.07
PR0020451	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	0	0	0	0	0

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

US Territory

Supplemental/EJ index percentiles >= 90 (Census block group)

Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type Supplemental (default)

Related Reports

EJScreen Community Report

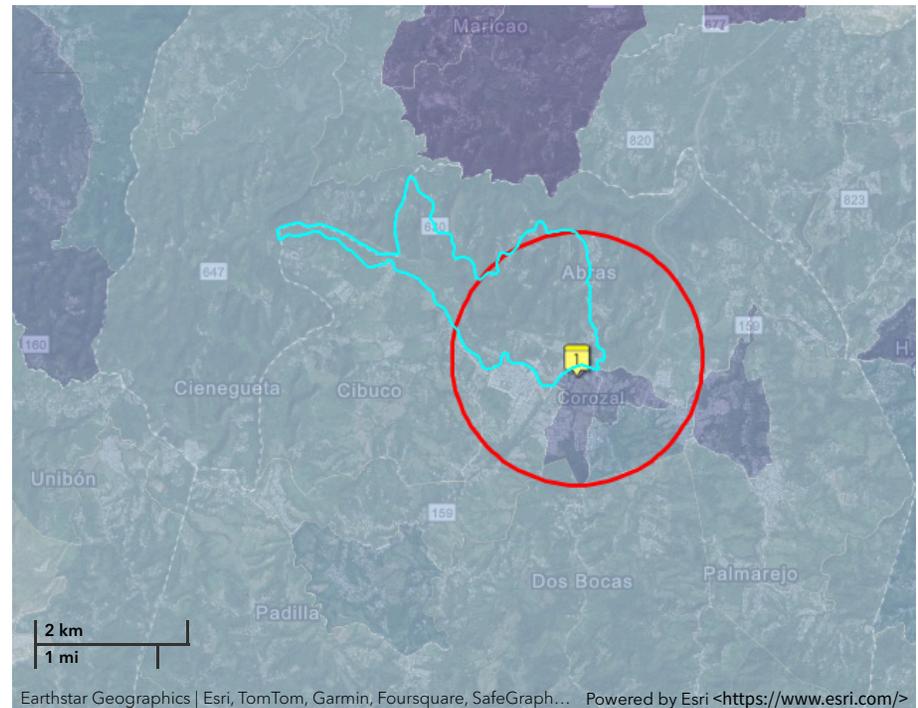
Download Data

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	5	6	2	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	0	27	65	10	38	71
Diesel Particulate Matter	12	12	18	62	61	77
Toxic Releases to Air	99	99	99	85	84	95
Traffic Proximity	87	89	95	43	47	67
Lead Paint	0	92	99	0	64	97
Risk Management Plan (RMP) Facility Proximity	99	99	99	78	80	89
Hazardous Waste Proximity	79	67	79	35	22	35
Superfund Proximity	99	99	99	92	90	98
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	99	99	99	93	93	98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer Summary - Number of Indexes

Facility 1-mile Radius Facility Census Block Group



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	7,126
Population Density	2,283/sq.mi.
Housing Units in Area	2,912
Percent People of Color	99%
Households in Area	2,339
Households on Public Assistance	92
Persons With Low Income	5,600
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.345806
Center Longitude	-66.319075
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,010 (43.16%)
\$15,000 - \$25,000	436 (18.63%)
\$25,000 - \$50,000	539 (23.03%)
\$50,000 - \$75,000	206 (8.8%)
Greater than \$75,000	149 (6.37%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	229 (3%)
Minors 17 years and younger	1,567 (22%)
Adults 18 years and older	5,561 (78%)
Seniors 65 years and older	1,407 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,394 (48%)
African-American	0 (0%)
Hispanic-Origin	7,061 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	933 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	760 (15.77%)
9th through 12th Grade	425 (8.82%)
High School Diploma	1,461 (30.32%)
Some College/2-year	653 (13.55%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	932 (19.34%)



Detailed Facility Report

Facility Summary

MUNICIPALITY OF COROZAL

SAN RAMON STREET, COROZAL, PR 00000

FRS (Facility Registry Service) ID: 110060367197

EPA Region: 02

Latitude: 18.34226

Longitude: -66.31684

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	09/19/2014
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 (PRR040059)

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		110060367197					N	18.34226	-66.31684
ICIS-NPDES	CWA	PRR040059	Non-Major: General Permit Covered Facility	Expired	Urban Stormwater (Small MS4)	06/30/2021	N	18.34226	-66.31684

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?
210100020101	Rio Corozal	--	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
PR	2022	PRNR9D	RIO DE LOS NEGROS	Impaired - With Restoration Plan	PATHOGENS	Not Assessed	Insufficient Information	--	Not Supporting	--

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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles ≥ 90 (Census block group)
- Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Supplemental (default)

Related Reports

EJScreen Community Report

Download Data

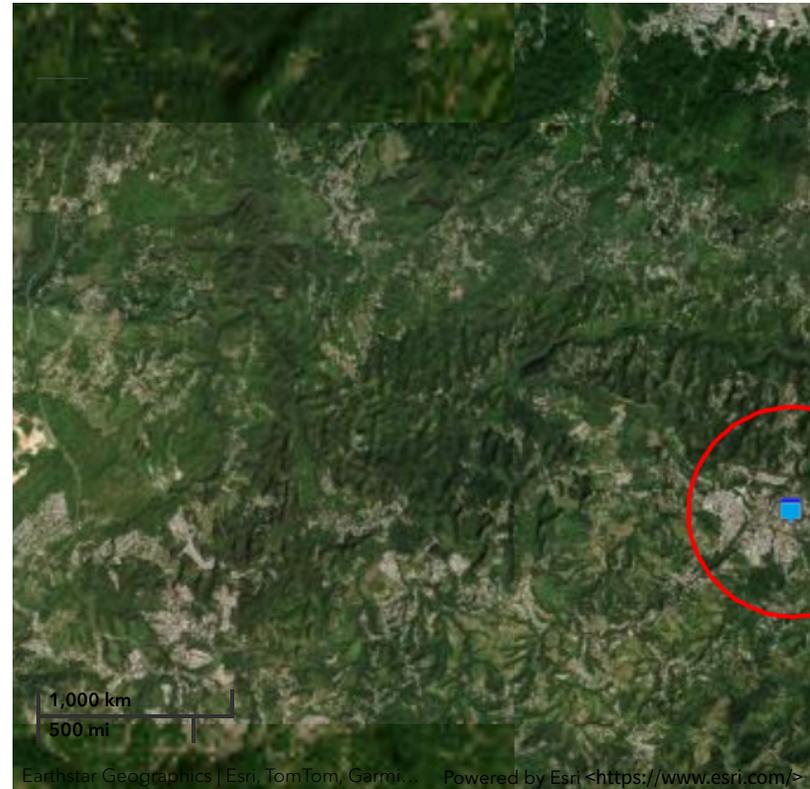
Census Block Group ID: 720475303002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	6	5	6	4	2	4
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Nitrogen Dioxide	40	28	65	56	38	71
Diesel Particulate Matter	14	12	18	71	61	77
Toxic Releases to Air	📍 99	📍 99	📍 99	📍 93	84	📍 95
Traffic Proximity	📍 95	89	📍 95	67	47	67
Lead Paint	📍 99	📍 93	📍 99	📍 93	68	📍 97
Risk Management Plan (RMP) Facility Proximity	📍 99	📍 99	📍 99	89	80	89
Hazardous Waste Proximity	71	67	79	22	21	35
Superfund Proximity	📍 99	📍 99	📍 99	📍 97	📍 91	📍 98
Underground Storage Tanks (UST)	0	0	--	0	0	--
Wastewater Discharge	📍 99	📍 99	📍 99	📍 98	📍 93	📍 98
Drinking Water Noncompliance	--	N/A	--	--	N/A	--

Map Display Based on: US State

Display Map Layer

Summary - Number of Indexes

Facility 1-mile Radius Facility Census Block Group



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	7,268
Population Density	2,329/sq.mi.
Housing Units in Area	3,050
Percent People of Color	99%
Households in Area	2,433
Households on Public Assistance	86
Persons With Low Income	5,759
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.34226
Center Longitude	-66.31684
Total Area	3.121 sq.mi.
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,025 (42.18%)
\$15,000 - \$25,000	448 (18.44%)
\$25,000 - \$50,000	600 (24.69%)
\$50,000 - \$75,000	205 (8.44%)
Greater than \$75,000	152 (6.26%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	235 (3%)
Minors 17 years and younger	1,553 (21%)
Adults 18 years and older	5,715 (79%)
Seniors 65 years and older	1,478 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	3,401 (47%)
African-American	0 (0%)
Hispanic-Origin	7,205 (99%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	0 (0%)
Other/Multiracial	940 (13%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	799 (16.07%)
9th through 12th Grade	423 (8.51%)
High School Diploma	1,486 (29.89%)
Some College/2-year	691 (13.9%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	964 (19.39%)

Attachment 6D
Lead-Based Paint and
Asbestos Reports

LEAD



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5.0 CONCLUSIONS

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APPENDIX III - XRF Data

APPENDIX IV - Site Location and Selective Photos

APPENDIX V - Floor Plan with Distribution of LBP

I. SUMMARY

Analytical Environmental Services International, Inc. (AES International) was contracted to perform an LBP survey for Polideportivo Complex de Corozal (PR-CRP-000883) located on PR-821, Corozal P.R. 00783. The LBP inspection was conducted on 11/10/2023 by Elme Rivera, a DRNA certified LBP risk assessor. The following components were found to be painted with LBP:

Main Entrance

Entrance

	Curb Left	Concrete	Yellow		} 35 sq.ft
	Curb Right	Concrete	Yellow		

Basketball Court

South Side

	Table Base	Concrete	Blue		} 112 sq.ft
	Table Trim	Concrete	Yellow		
	Bench	Concrete	Green		} 80 sq.ft
	Bench Back	Concrete	Yellow		
	Bench Base	Concrete	Blue		

East Side

	Post	Metal	Red		20 sq.ft
--	------	-------	-----	--	----------

West Side

	Post	Metal	Red		20 sq.ft
--	------	-------	-----	--	----------

Pool Bathrooms

Entrance

	Lower Wall C	Ceramic	Yellow		9 sq.ft
--	--------------	---------	--------	--	---------

Mechanical Room

Exterior

	Exterior Wall A	Concrete	Cream		} 1,200 sq.f
	Exterior Wall B	Concrete	Cream		
	Exterior Wall C	Concrete	Cream		
	Exterior Wall D	Concrete	Cream		
	Column Wall D	Concrete	Cream		
	Column Wall C	Concrete	Cream		
	Column Wall B	Concrete	Cream		
	Column Wall A	Concrete	Cream		
	Bench	Wood	Yellow		12 sq.ft

Pool

Perimeter				
	Sign Number South (5)	Ceramic	White	} 5 sq.ft
	Sign Number North (5)	Ceramic	White	
Pool Bleachers				
	Column Trim	Concrete	Cream	} 320 sq.ft
	Rise	Concrete	Cream	
	Wall B Trim	Concrete	Cream	
	Wall D Trim	Concrete	Cream	
	Back Trim Column	Concrete	Cream	

If demolition, or renovation activities, are conducted in the nearest future it is required to remove all LBP materials that will be affected by said activities.

1.0 INTRODUCTION

Analytical Environmental Services International, Inc. (AES International) was contracted to perform an LBP survey for Polideportivo Complex de Corozal (PR-CRP-000883) located on PR-821, Corozal P.R. 00783

The LBP inspection was conducted on 11/10/23 by Elme Rivera, a DRNA/EPA certified lead risk assessor. The credentials of AESI are attached in Appendix I. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, 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 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The 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 have to be tested. The above guidelines were used to perform lead-based-paint testing for this project.

The main steps involved in a single-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 on 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.

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. Four hundred seventy-six (476) XRF readings were taken. LBP components were detected and presented herein.

5.0 CONCLUSIONS

An LBP survey for Polideportivo Complex de Corozal (PR-CRP-000883) located on PR-821, Corozal P.R. 00783 was conducted. LBP findings are 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.

This report shall be kept by the owner and all future owners for the life of the buildings. A copy of the relevant report shall be given to each tenant, buyer, or lessor, to comply with federal requirements for disclosure under the lead disclosure rule of 1996 (see also section 1018 of Title X). The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden painted surfaces or components be present, they must be assumed as LBP.



Elme Rivera, DRNA Lead Risk Assessor
Lic#: LBPRA-21223-234

**Table 1. Summary of LBP Positive Components at Polideportivo de Corozal
(PR-CRP-000883), Corozal P.R. 00783**

Structure	Room	Components	Substrate	Color	Quantity
<u>Main Entrance</u>					
	Entrance	Curb Left	Concrete	Yellow	} 35 sq.ft
		Curb Right	Concrete	Yellow	
<u>Basketball Court</u>					
	South Side	Table Base	Concrete	Blue	} 112 sq.ft
		Table Trim	Concrete	Yellow	
		Bench	Concrete	Green	} 80 sq.ft
		Bench Back	Concrete	Yellow	
		Bench Base	Concrete	Blue	
	East Side	Post	Metal	Red	20 sq.ft
	West Side	Post	Metal	Red	20 sq.ft
<u>Pool Bathrooms</u>					
	Entrance	Lower Wall C	Ceramic	Yellow	9 sq.ft
<u>Mechanical Room</u>					
	Exterior	Exterior Wall A	Concrete	Cream	} 1,200 sq.f
		Exterior Wall B	Concrete	Cream	
		Exterior Wall C	Concrete	Cream	
		Exterior Wall D	Concrete	Cream	
		Column Wall D	Concrete	Cream	
		Column Wall C	Concrete	Cream	
		Column Wall B	Concrete	Cream	
		Column Wall A	Concrete	Cream	
		Bench	Wood	Yellow	12 sq.ft
<u>Pool</u>					
	Perimeter	Sign Number South (5)	Ceramic	White	} 5 sq.ft
		Sign Number North (5)	Ceramic	White	
	Pool Bleachers	Column Trim	Concrete	Cream	} 320 sq.ft
		Rise	Concrete	Cream	
		Wall B Trim	Concrete	Cream	
		Wall D Trim	Concrete	Cream	
		Back Trim Column	Concrete	Cream	

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 Risk Assessor 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/cm²)
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, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering
Project Name: LBP Survey at Polideportivo de Corozal (PR-CRP-000883)
Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
1					Calibration	1.0	
2					Calibration	1.0	
3					Calibration	1.0	
4	Racquetball Court	Court Area	Concrete	Gray	Left Sidewalk	0.1	
5	Racquetball Court	Court Area	Concrete	Cream	Center Wall	0.2	
6	Racquetball Court	Court Area	Concrete	Gray	Right Sidewalk	0.1	
7	Racquetball Court	Court Area	Concrete	White	Wall Line	0.2	
8	Racquetball Court	Court Area	Concrete	Gray	Floor	0.1	
9	Racquetball Court	Court Area	Concrete	White	Floor Line	0.1	
10	Racquetball Court	Court Area	Concrete	Blue	Back of Lower Wall	0.1	
11	Racquetball Court	Court Area	Concrete	Blue	Back of Upper Wall	0.3	
12	Racquetball Court	Court Area	Concrete	Gray	Floor Wall	0.1	
13	Racquetball Court	Court Area	Metal	White	Light Post 1	0.1	
14	Racquetball Court	Court Area	Metal	White	Light Post 2	0.2	
15	Racquetball Court	Court Area	Metal	White	Light Post 3	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
16	Racquetball Court	Court Area	Metal	White	Light Post 4	0.1	
17	Racquetball Court	Court Area	Concrete	Gray	Column	0.1	
18	Racquetball Court	Court Area	Concrete	Yellow	Column Top	0.2	
19	Tennis Court	Court Area	Concrete	Brown	Sidewalk	0.1	
20	Tennis Court	Court Area	Concrete	Green	Floor Southwest	0.1	
21	Tennis Court	Court Area	Concrete	White	Floor Line Southwest	0.2	
22	Tennis Court	Court Area	Concrete	Brown	Floor Southwest	0.1	
23	Tennis Court	Court Area	Concrete	Brown	Floor Line	0.1	
24	Tennis Court	Court Area	Concrete	White	Floor Line	0.9	
25	Tennis Court	Court Area	Concrete	Brown	Floor Northeast	0.1	
26	Tennis Court	Court Area	Concrete	White	Floor Northeast	0.2	
27	Tennis Court	Court Area	Concrete	Green	Floor Northeast	0.0	
28	Tennis Court	Court Area	Metal	Brown	Post Left Net	0.1	
29	Tennis Court	Court Area	Metal	Brown	Post Right Net	0.2	
30	Tennis Court	Court Area	Metal	Gray	Gate to Court	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Address: Corozal, Puerto Rico

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 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
31	Tennis Court	Court Area	Metal	White	Light Post 5	0.1	
32	Tennis Court	Court Area	Metal	White	Light Post 6	0.2	
33	Tennis Court	Court Area	Metal	White	Light Post 7	0.1	
34	Tennis Court	Court Area	Metal	Gray	Base Light Post 6	0.1	
35	Tennis Court	Court Area	Metal	Green	Lower Light Post 7	0.1	
36	Tennis Court	Court Area	Concrete	Gray	Base Light Post 7	0.2	
37	Tennis Court	Court Area	Concrete	Gray	Boulevard East	0.1	
38	Tennis Court	Court Area	Concrete	Gray	Boulevard South	0.1	
39	Tennis Court	Court Area	Concrete	Gray	Boulevard West	0.2	
40	Tennis Court	Entrance	Concrete	Yellow	Curb Left	1.3	
41	Tennis Court	Entrance	Concrete	Yellow	Curb Right	1.2	
42	Tennis Court	Entrance	Concrete	White	Curb Left	0.1	
43	Main Bathrooms	Exterior	Concrete	Blue	Lower Wall A	0.1	
44	Main Bathrooms	Exterior	Concrete	Blue	Lower Wall B	0.1	
45	Main Bathrooms	Exterior	Concrete	Blue	Lower Wall C	0.2	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
46	Main Bathrooms	Exterior	Concrete	Blue	Lower Wall D	0.1	
47	Main Bathrooms	Exterior	Concrete	Green	Middle Wall A	0.2	
48	Main Bathrooms	Exterior	Concrete	Green	Middle Wall B	0.1	
49	Main Bathrooms	Exterior	Concrete	Green	Middle Wall C	0.2	
50	Main Bathrooms	Exterior	Concrete	Green	Middle Wall D	0.1	
51	Main Bathrooms	Exterior	Concrete	Yellow	Upper Wall A	0.2	
52	Main Bathrooms	Exterior	Concrete	Yellow	Upper Wall B	0.1	
53	Main Bathrooms	Exterior	Concrete	Yellow	Upper Wall C	0.1	
54	Main Bathrooms	Exterior	Concrete	Yellow	Upper Wall D	0.2	
55	Main Bathrooms	Exterior	Metal	Brown	Window	0.1	
56	Main Bathrooms	Bathroom Hall	Metal	Red	Door Frame	0.1	
57	Main Bathrooms	Bathroom Hall	Metal	Red	Door	0.2	
58	Main Bathrooms	Bathroom Hall	Concrete	White	Wall A	0.1	
59	Main Bathrooms	Bathroom Hall	Concrete	White	Wall B	0.2	
60	Main Bathrooms	Bathroom Hall	Concrete	Blue	Lower Wall C	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
61	Main Bathrooms	Bathroom Hall	Concrete	White	Upper Wall C	0.2	
62	Main Bathrooms	Bathroom Hall	Concrete	White	Wall D	0.1	
63	Main Bathrooms	Bathroom Hall	Concrete	Gray	Floor	0.1	
64	Main Bathrooms	Bathroom Hall	Concrete	Blue	Lower Column	0.1	
65	Main Bathrooms	Bathroom Hall	Concrete	Green	Upper Column	0.2	
66	Main Bathrooms	Women's Bathroom	Metal	White	Door Frame	0.1	
67	Main Bathrooms	Women's Bathroom	Metal	White	Door	0.2	
68	Main Bathrooms	Women's Bathroom	Concrete	Gray	Upper Wall A	0.1	
69	Main Bathrooms	Women's Bathroom	Concrete	Gray	Upper Wall B	0.2	
70	Main Bathrooms	Women's Bathroom	Concrete	Gray	Upper Wall C	0.1	
71	Main Bathrooms	Women's Bathroom	Concrete	Gray	Upper Wall D	0.1	
72	Main Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall A	0.1	
73	Main Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall B	0.2	
74	Main Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall C	0.1	
75	Main Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall D	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

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Project Name: LBP Survey at Polideportivo de Corozal (PR-CRP-000883)
Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
76	Main Bathrooms	Women's Bathroom	Ceramic	Cream	Floor Tiles	0.2	
77	Main Bathrooms	Women's Bathroom	Ceramic	White	Sink	0.1	
78	Main Bathrooms	Toilet Area 1	Wood	Gray	Door Frame	0.2	
79	Main Bathrooms	Toilet Area 1	Wood	Gray	Door	0.1	
80	Main Bathrooms	Toilet Area 1	Concrete	Gray	Upper Wall B	0.1	
81	Main Bathrooms	Toilet Area 1	Concrete	Gray	Upper Wall C	0.2	
82	Main Bathrooms	Toilet Area 1	Concrete	White	Upper Wall D	0.1	
83	Main Bathrooms	Toilet Area 1	Ceramic	Lt. Yellow	Lower Wall B	0.2	
84	Main Bathrooms	Toilet Area 1	Ceramic	Lt. Yellow	Lower Wall C	0.1	
85	Main Bathrooms	Toilet Area 1	Ceramic	Cream	Floor Tile	0.1	
86	Main Bathrooms	Toilet Area 1	Ceramic	White	Toilet	0.1	
87	Main Bathrooms	Toilet Area 1	Ceramic	White	Toilet Tank	0.2	
88	Main Bathrooms	Toilet Area 1	Concrete	Blue	Wall Lower	0.1	
89	Main Bathrooms	Toilet Area 1	Concrete	Green	Wall Middle	0.2	
90	Main Bathrooms	Toilet Area 1	Concrete	Yellow	Wall Upper	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

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Project Name: LBP Survey at Polideportivo de Corozal (PR-CRP-000883)
Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
91	Main Bathrooms	Toilet Area 2	Wood	Gray	Door Frame	0.2	
92	Main Bathrooms	Toilet Area 2	Wood	Gray	Door	0.1	
93	Main Bathrooms	Toilet Area 2	Concrete	White	Wall A	0.2	
94	Main Bathrooms	Toilet Area 2	Concrete	White	Wall B	0.1	
95	Main Bathrooms	Toilet Area 2	Concrete	Gray	Upper Wall C	0.1	
96	Main Bathrooms	Toilet Area 2	Concrete	Gray	Upper Wall D	0.2	
97	Main Bathrooms	Toilet Area 2	Concrete	White	Ceiling	0.1	
98	Main Bathrooms	Toilet Area 2	Ceramic	Lt. Yellow	Lower Wall C	0.7	
99	Main Bathrooms	Toilet Area 2	Ceramic	Lt. Yellow	Lower Wall D	0.6	
100	Main Bathrooms	Toilet Area 2	Ceramic	White	Toilet	0.1	
101	Main Bathrooms	Toilet Area 2	Ceramic	White	Toilet Tank	0.2	
102	Main Bathrooms	Toilet Area 2	Ceramic	Cream	Floor Tile	0.1	
103	Main Bathrooms	Men's Bathroom	Metal	White	Door Frame	0.2	
104	Main Bathrooms	Men's Bathroom	Metal	White	Door	0.1	
105	Main Bathrooms	Men's Bathroom	Concrete	Gray	Upper Wall A	0.2	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering
Project Name: LBP Survey at Polideportivo de Corozal (PR-CRP-000883)
Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
106	Main Bathrooms	Men's Bathroom	Concrete	Gray	Upper Wall B	0.1	
107	Main Bathrooms	Men's Bathroom	Concrete	Gray	Upper Wall C	0.2	
108	Main Bathrooms	Men's Bathroom	Concrete	Gray	Upper Wall D	0.1	
109	Main Bathrooms	Men's Bathroom	Concrete	White	Ceiling	0.2	
110	Main Bathrooms	Men's Bathroom	Concrete	White	Window Sill	0.1	
111	Main Bathrooms	Men's Bathroom	Metal	Brown	Window	0.2	
112	Main Bathrooms	Men's Bathroom	Ceramic	White	Sink	0.1	
113	Main Bathrooms	Men's Bathroom	Ceramic	White	Urinal	0.1	
114	Main Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall A	0.1	
115	Main Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall B	0.1	
116	Main Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall C	0.1	
117	Main Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall D	0.2	
118	Main Bathrooms	Men's Bathroom	Concrete	White	Divisory Wall	0.1	
119	Main Bathrooms	Men's Bathroom	Concrete	Blue	Lower Wall	0.2	
120	Main Bathrooms	Men's Bathroom	Concrete	Cream	Middle Wall	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
121	Main Bathrooms	Men's Bathroom	Concrete	Yellow	Upper Wall	0.2	
122	Main Bathrooms	Men's Bathroom	Ceramic	Gray	Floor Tile	0.1	
123	Main Bathrooms	Toilet Area	Wood	Gray	Door Frame	0.3	
124	Main Bathrooms	Toilet Area	Wood	Gray	Door	0.1	
125	Main Bathrooms	Toilet Area	Concrete	Gray	Upper Wall B	0.2	
126	Main Bathrooms	Toilet Area	Concrete	Gray	Upper Wall C	0.1	
127	Main Bathrooms	Toilet Area	Concrete	White	Wall C	0.2	
128	Main Bathrooms	Toilet Area	Concrete	White	Wall D	0.3	
129	Main Bathrooms	Toilet Area	Ceramic	White	Lower Wall B	0.1	
130	Main Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall C	0.1	
131	Main Bathrooms	Men's Bathroom	Ceramic	White	Toilet	0.2	
132	Main Bathrooms	Men's Bathroom	Ceramic	White	Toilet Tank	0.1	
133	Main Bathrooms	Men's Bathroom	Ceramic	Gray	Floor Tiles	0.1	
134	Basketball Court	Court	Concrete	Gray	Floor	0.1	
135	Basketball Court	South	Concrete	Blue	Table Base	1.6	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
136	Basketball Court	South	Concrete	Cream	Table Top	0.6	
137	Basketball Court	South	Concrete	Yellow	Table Trim	1.6	
138	Basketball Court	South	Concrete	Green	Bench	1.7	
139	Basketball Court	South	Concrete	Yellow	Bench Back	1.8	
140	Basketball Court	South	Concrete	Blue	Bench Base	1.9	
141	Basketball Court	Southwest	Concrete	Blue	Bench Base	0.1	
142	Basketball Court	Southwest	Concrete	Green	Bench Top (Seat)	0.2	
143	Basketball Court	Southwest	Concrete	Yellow	Bench Trim	0.1	
144	Basketball Court	West Side	Concrete	Gray	Floor	0.1	
145	Basketball Court	West Side	Concrete	Blue	Base of Post Bottom	0.1	
146	Basketball Court	West Side	Concrete	Green	Base of Post Middle	0.2	
147	Basketball Court	West Side	Concrete	Yellow	Base of Post Top	0.1	
148	Basketball Court	West Side	Metal	Red	Post	2.7	
149	Basketball Court	West Side	Metal	Red	Board	0.1	
150	Basketball Court	West Side	Metal	White	Board Trim	0.2	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
151	Basketball Court	Bleachers	Concrete	Blue	Column	0.1	
152	Basketball Court	Bleachers	Concrete	Blue	Riser	0.2	
153	Basketball Court	Bleachers	Concrete	Cream	Riser	0.1	
154	Basketball Court	Bleachers	Concrete	Green	Stringer	0.2	
155	Basketball Court	Bleachers	Concrete	Yellow	Riser	0.1	
156	Basketball Court	Bleachers	Concrete	Yellow	Stringer	0.2	
157	Basketball Court	Bleachers	Metal	Green	Column Post	0.1	
158	Basketball Court	Bleachers	Metal	Green	Joist	0.1	
159	Basketball Court	Bleachers	Metal	White	Light Post - Left	0.1	
160	Basketball Court	Bleachers	Metal	White	Light Post - Right	0.2	
161	Basketball Court	East Side	Metal	Red	Post	4.7	
162	Basketball Court	East Side	Concrete	Blue	Base of Post - Bottom	0.1	
163	Basketball Court	East Side	Concrete	Green	Base of Post - Middle	0.2	
164	Basketball Court	East Side	Concrete	Yellow	Base of Post - Top	0.1	
165	Basketball Court	East Side	Metal	Red	Board	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
166	Basketball Court	East Side	Metal	White	Board Trim	0.1	
167	Basketball Court	East Side	Concrete	Gray	Floor of Court	0.1	
168	Basketball Court	South East	Concrete	Blue	Bench Base	0.1	
169	Basketball Court	South East	Concrete	Green	Bench Top	0.2	
170	Basketball Court	South East	Concrete	Yellow	Bench Trim	0.1	
171	Basketball Court	South East	Metal	Gray	Light Post	0.1	
172	Basketball Court	South West	Metal	White	Light Post	0.1	
173	Basketball Court	South West	Concrete	Gray	Light Post Base	0.2	
174	Pool Bathrooms	Exterior	Concrete	Lt. Brown	Wall A	0.1	
175	Pool Bathrooms	Exterior	Concrete	Lt. Brown	Wall B	0.2	
176	Pool Bathrooms	Exterior	Concrete	Lt. Brown	Wall C	0.1	
177	Pool Bathrooms	Exterior	Concrete	Lt. Brown	Wall D	0.2	
178	Pool Bathrooms	Exterior	Concrete	Green	Trim Wall A	0.1	
179	Pool Bathrooms	Exterior	Concrete	Green	Trim Wall B	0.2	
180	Pool Bathrooms	Exterior	Concrete	Green	Trim Wall C	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
181	Pool Bathrooms	Exterior	Concrete	Green	Trim Wall D	0.2	
182	Pool Bathrooms	Exterior	Metal	Brown	Window	0.1	
183	Pool Bathrooms	Entrance Back	Metal	Brown	Railing Door	0.2	
184	Pool Bathrooms	Entrance Back	Concrete	White	Wall B	0.1	
185	Pool Bathrooms	Entrance Back	Concrete	White	Wall C	0.1	
186	Pool Bathrooms	Entrance Back	Concrete	White	Wall D	0.1	
187	Pool Bathrooms	Entrance Back	Concrete	Gray	Floor	0.2	
188	Pool Bathrooms	Entrance Back	Metal	Brown	Handrail	0.1	
189	Pool Bathrooms	Entrance Back	Ceramic	Yellow	Lower Wall C	13.5	
190	Pool Bathrooms	Hallway	Metal	Gray	Door Frame	0.1	
191	Pool Bathrooms	Hallway	Metal	Gray	Door	0.2	
192	Pool Bathrooms	Hallway	Concrete	White	Wall B	0.1	
193	Pool Bathrooms	Hallway	Concrete	White	Wall D	0.2	
194	Pool Bathrooms	Hallway	Concrete	White	Ceiling	0.1	
195	Pool Bathrooms	Hallway	Ceramic	Cream	Floor Tile	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
196	Pool Bathrooms	Women's Bathroom	Concrete	White	Upper Wall A	0.1	
197	Pool Bathrooms	Women's Bathroom	Concrete	White	Upper Wall B	0.2	
198	Pool Bathrooms	Women's Bathroom	Concrete	White	Upper Wall C	0.1	
199	Pool Bathrooms	Women's Bathroom	Concrete	White	Upper Wall D	0.1	
200	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall A	0.1	
201	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall B	0.2	
202	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall C	0.1	
203	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall D	0.2	
204	Pool Bathrooms	Women's Bathroom	Ceramic	Cream	Floor Tile	0.1	
205	Pool Bathrooms	Women's Bathroom	Ceramic	White	Sink	0.2	
206	Pool Bathrooms	Women's Bathroom	Ceramic	White	Sink	0.1	
207	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Divisory Wall	0.3	
208	Pool Bathrooms	Women's Bathroom	Ceramic	White	Toilet	0.1	
209	Pool Bathrooms	Women's Bathroom	Ceramic	White	Toilet Tank	0.2	
210	Pool Bathrooms	Toilet Area	Wood	Gray	Door Frame	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
211	Pool Bathrooms	Toilet Area	Wood	Gray	Door	0.2	
212	Pool Bathrooms	Toilet Area	Concrete	White	Wall A	0.1	
213	Pool Bathrooms	Toilet Area	Concrete	White	Wall B	0.1	
214	Pool Bathrooms	Women's Bathroom	Concrete	White	Wall C	0.1	
215	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall C	0.2	
216	Pool Bathrooms	Women's Bathroom	Ceramic	Lt. Yellow	Lower Wall D	0.1	
217	Pool Bathrooms	Women's Bathroom	Concrete	White	Upper Wall D	0.2	
218	Pool Bathrooms	Women's Bathroom	Ceramic	White	Toilet	0.1	
219	Pool Bathrooms	Women's Bathroom	Ceramic	White	Toilet Tank	0.2	
220	Pool Bathrooms	Shower Area	Ceramic	Lt. Yellow	Lower Wall A	0.1	
221	Pool Bathrooms	Shower Area	Ceramic	Lt. Yellow	Lower Wall B	0.2	
222	Pool Bathrooms	Shower Area	Concrete	White	Upper Wall A	0.1	
223	Pool Bathrooms	Shower Area	Concrete	White	Upper Wall B	0.2	
224	Pool Bathrooms	Shower Area	Concrete	White	Wall C	0.1	
225	Pool Bathrooms	Shower Area	Concrete	White	Wall D	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
226	Pool Bathrooms	Shower Area	Ceramic	Cream	Floor Tiles	0.1	
227	Pool Bathrooms	Shower Area	Concrete	White	Divisory Wall	0.1	
228	Pool Bathrooms	Shower Area	Concrete	Gray	Dike	0.1	
229	Pool Bathrooms	Shower Area	Ceramic	Lt. Gray	Dike Tile	0.2	
230	Pool Bathrooms	Shower Area	Concrete	Gray	Shower Floor	0.1	
231	Pool Bathrooms	Janitor Room	Metal	Blue	Door Frame	0.1	
232	Pool Bathrooms	Janitor Room	Metal	White	Door	0.2	
233	Pool Bathrooms	Janitor Room	Concrete	White	Upper Wall A	0.1	
234	Pool Bathrooms	Janitor Room	Concrete	White	Upper Wall B	0.2	
235	Pool Bathrooms	Janitor Room	Concrete	White	Upper Wall C	0.1	
236	Pool Bathrooms	Janitor Room	Concrete	White	Upper Wall D	0.2	
237	Pool Bathrooms	Janitor Room	Ceramic	Lt. Yellow	Lower Wall A	0.4	
238	Pool Bathrooms	Janitor Room	Ceramic	Lt. Yellow	Lower Wall B	0.2	
239	Pool Bathrooms	Janitor Room	Ceramic	Lt. Yellow	Lower Wall C	0.1	
240	Pool Bathrooms	Janitor Room	Ceramic	Lt. Yellow	Lower Wall D	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
241	Pool Bathrooms	Janitor Room	Ceramic	Cream	Floor Tiles	0.1	
242	Pool Bathrooms	Janitor Room	Ceramic	Lt. Yellow	Dike	0.1	
243	Pool Bathrooms	Office	Metal	Gray	Door Frame	0.1	
244	Pool Bathrooms	Office	Metal	Gray	Door	0.2	
245	Pool Bathrooms	Office	Concrete	White	Wall A	0.1	
246	Pool Bathrooms	Office	Concrete	White	Wall B	0.3	
247	Pool Bathrooms	Office	Concrete	White	Wall C	0.1	
248	Pool Bathrooms	Office	Concrete	White	Wall D	0.2	
249	Pool Bathrooms	Office	Concrete	White	Ceiling	0.1	
250	Pool Bathrooms	Office	Concrete	Gray	Floor	0.2	
251	Pool Bathrooms	Office	Metal	White	Railing	0.1	
252	Pool Bathrooms	Office	Metal	Brown	Railing	0.2	
253	Pool Bathrooms	Office	Concrete	White	Ceiling	0.1	
254	Pool Bathrooms	Office	Metal	Gray	Door Frame	0.1	
255	Pool Bathrooms	Office	Metal	White	Door	0.2	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
256	Pool Bathrooms	Men's Bathroom	Metal	Gray	Door Frame	0.1	
257	Pool Bathrooms	Men's Bathroom	Metal	White	Door	0.2	
258	Pool Bathrooms	Men's Bathroom	Concrete	White	Upper Wall A	0.1	
259	Pool Bathrooms	Men's Bathroom	Concrete	White	Upper Wall B	0.2	
260	Pool Bathrooms	Men's Bathroom	Concrete	White	Upper Wall C	0.1	
261	Pool Bathrooms	Men's Bathroom	Concrete	White	Upper Wall D	0.2	
262	Pool Bathrooms	Men's Bathroom	Concrete	White	Ceiling	0.1	
263	Pool Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall A	0.1	
264	Pool Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall B	0.1	
265	Pool Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall C	0.2	
266	Pool Bathrooms	Men's Bathroom	Ceramic	White	Lower Wall D	0.1	
267	Pool Bathrooms	Men's Bathroom	Ceramic	Brown	Floor Tiles	0.2	
268	Pool Bathrooms	Men's Bathroom	Ceramic	White	Sink	0.1	
269	Pool Bathrooms	Men's Bathroom	Concrete	White	Sink	0.1	
270	Pool Bathrooms	Men's Bathroom	Ceramic	White	Divisory Wall	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
271	Pool Bathrooms	Men's Bathroom	Metal	Gray	Exit Door Frame	0.1	
272	Pool Bathrooms	Men's Bathroom	Wood	Gray	Exit Door	0.2	
273	Pool Bathrooms	Toilet Area 1	Wood	Gray	Door Frame	0.1	
274	Pool Bathrooms	Toilet Area 1	Wood	Gray	Door	0.2	
275	Pool Bathrooms	Toilet Area 1	Concrete	White	Wall A	0.1	
276	Pool Bathrooms	Toilet Area 1	Concrete	White	Upper Wall B	0.2	
277	Pool Bathrooms	Toilet Area 1	Concrete	White	Upper Wall C	0.1	
278	Pool Bathrooms	Toilet Area 1	Concrete	White	Wall D	0.2	
279	Pool Bathrooms	Toilet Area 1	Ceramic	White	Lower Wall B	0.1	
280	Pool Bathrooms	Toilet Area 1	Ceramic	White	Lower Wall C	0.2	
281	Pool Bathrooms	Toilet Area 1	Ceramic	Gray	Floor Tiles	0.1	
282	Pool Bathrooms	Toilet Area 1	Ceramic	White	Toilet	0.2	
283	Pool Bathrooms	Toilet Area 1	Ceramic	White	Toilet Tank	0.1	
284	Pool Bathrooms	Toilet Area 2	Wood	Gray	Door Frame	0.1	
285	Pool Bathrooms	Toilet Area 2	Wood	Gray	Door	0.2	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
286	Pool Bathrooms	Toilet Area 2	Ceramic	White	Toilet	0.1	
287	Pool Bathrooms	Toilet Area 2	Ceramic	White	Toilet Tank	0.2	
288	Pool Bathrooms	Toilet Area 2	Ceramic	White	Lower Wall C	0.1	
289	Pool Bathrooms	Toilet Area 2	Ceramic	White	Lower Wall D	0.2	
290	Pool Bathrooms	Toilet Area 2	Concrete	White	Upper Wall C	0.1	
291	Pool Bathrooms	Toilet Area 2	Concrete	White	Upper Wall D	0.1	
292	Pool Bathrooms	Shower Area A	Concrete	White	Wall A	0.1	
293	Pool Bathrooms	Shower Area A	Concrete	White	Wall B	0.2	
294	Pool Bathrooms	Shower Area A	Concrete	White	Wall C	0.1	
295	Pool Bathrooms	Shower Area A	Concrete	White	Upper Wall D	0.2	
296	Pool Bathrooms	Shower Area A	Concrete	White	Ceiling	0.1	
297	Pool Bathrooms	Shower Area A	Ceramic	White	Lower Wall D	0.1	
298	Pool Bathrooms	Shower Area A	Ceramic	Gray	Floor Tiles	0.1	
299	Pool Bathrooms	Shower Area A	Wood	Gray	Bench	0.2	
300	Pool Bathrooms	Shower Area B	Ceramic	White	Lower Wall A	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
301	Pool Bathrooms	Shower Area B	Ceramic	White	Lower Wall B	0.2	
302	Pool Bathrooms	Shower Area B	Ceramic	White	Lower Wall C	0.1	
303	Pool Bathrooms	Shower Area B	Ceramic	White	Lower Wall D	0.2	
304	Pool Bathrooms	Shower Area B	Concrete	White	Upper Wall A	0.1	
305	Pool Bathrooms	Shower Area B	Concrete	White	Upper Wall B	0.2	
306	Pool Bathrooms	Shower Area B	Concrete	White	Upper Wall C	0.1	
307	Pool Bathrooms	Shower Area B	Concrete	White	Upper Wall D	0.1	
308	Pool Bathrooms	Shower Area B	Ceramic	Green	Floor Tiles	0.1	
309	Pool Bathrooms	Shower Area B	Metal	Brown	Window	0.1	
310	Pool Bathrooms	Exterior	Concrete	Green	Women's Bath Ext. Wall	0.9	
311	Pool Bathrooms	Exterior	Concrete	Green	Men's Bathroom Ext. Wall	0.8	
312	Pool	Perimeter	Ceramic	Lt. Blue	North Top Trim	0.1	
313	Pool	Perimeter	Ceramic	Lt. Blue	East Top Trim	0.2	
314	Pool	Perimeter	Ceramic	Lt. Blue	South Top Trim	0.1	
315	Pool	Perimeter	Ceramic	Lt. Blue	West Top Trim	0.2	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Applied Engineering
Project Name: LBP Survey at Polideportivo de Corozal (PR-CRP-000883)
Address: Corozal, Puerto Rico

Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
316	Pool	Perimeter	Concrete	Blue	East Interior Wall	0.1	
317	Pool	Perimeter	Concrete	Blue	North Interior Wall	0.2	
318	Pool	Perimeter	Concrete	Blue	West Interior Wall	0.1	
319	Pool	Perimeter	Concrete	Blue	South Interior Wall	0.2	
320	Pool	Perimeter	Concrete	Blue	Interior Floor	0.1	
321	Pool	Perimeter	Ceramic	Black	Floor Tile East	0.2	
322	Pool	Perimeter	Ceramic	Black	Floor Tile North	0.1	
323	Pool	Perimeter	Ceramic	Black	Floor Tile West	0.2	
324	Pool	Perimeter	Ceramic	Black	Floor Tile South	0.1	
325	Pool	Perimeter	Concrete	Cream	Fence Wall A	0.1	
326	Pool	Perimeter	Concrete	Cream	Fence Wall B	0.1	
327	Pool	Perimeter	Concrete	Cream	Fence Wall C	0.2	
328	Pool	Perimeter	Concrete	Cream	Fence Wall D	0.1	
329	Small Pool	Perimeter	Metal	Gray	Railing	0.1	
330	Small Pool	Perimeter	Concrete	Cream	Floor	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
331	Small Pool	Perimeter	Concrete	White	East Interior Wall	0.1	
332	Small Pool	Perimeter	Concrete	White	North Interior Wall	0.2	
333	Small Pool	Perimeter	Concrete	White	West Interior Wall	0.1	
334	Small Pool	Perimeter	Concrete	White	South Interior Wall	0.2	
335	Small Pool	Perimeter	Concrete	White	Interior Floor	0.1	
336	Small Pool	Perimeter, South Side	Metal	White	Light Post	0.1	
337	Small Pool	Perimeter, South Side	Metal	Cream	Light Post lower	0.2	
338	Small Pool	Perimeter, South Side	Concrete	Cream	Light Post Base	0.1	
339	Small Pool	Perimeter, South Side	Wood	Gray	Bench	0.1	
340	Small Pool	Perimeter Pool	Metal	Gray	Upper Post	0.1	
341	Small Pool	Perimeter Pool	Metal	Cream	Lower Post	0.2	
342	Small Pool	Perimeter Pool	Concrete	Cream	Lower Post Base	0.1	
343	Mechanical Room	Mechanical Room	Metal	Gray	Railing Door Frame	0.1	
344	Mechanical Room	Mechanical Room	Metal	Gray	Railing Door	0.2	
345	Mechanical Room	Mechanical Room	Metal	Brown	Door Frame	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
346	Mechanical Room	Mechanical Room	Metal	Brown	Door	0.2	
347	Mechanical Room	Mechanical Room	Concrete	White	Wall A	0.1	
348	Mechanical Room	Mechanical Room	Concrete	White	Wall B	0.2	
349	Mechanical Room	Mechanical Room	Concrete	White	Wall C	0.1	
350	Mechanical Room	Mechanical Room	Concrete	White	Wall D	0.2	
351	Mechanical Room	Mechanical Room	Concrete	White	Ceiling	0.1	
352	Mechanical Room	Mechanical Room	Concrete	White	Column	0.1	
353	Mechanical Room	Mechanical Room	Metal	Blue	Pipe	0.1	
354	Mechanical Room	Mechanical Room	Metal	Gray	Ladder	0.1	
355	Mechanical Room	Mechanical Room	Metal	Blue	Door Frame	0.1	
356	Mechanical Room	Mechanical Room	Metal	Blue	Door	0.2	
357	Mechanical Room	Mechanical Room	Concrete	White	Wall A	0.1	
358	Mechanical Room	Mechanical Room	Concrete	White	Wall B	0.2	
359	Mechanical Room	Mechanical Room	Concrete	White	Wall C	0.1	
360	Mechanical Room	Mechanical Room	Concrete	White	Wall D	0.1	

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Date: 11/10/23
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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
361	Mechanical Room	Mechanical Room	Metal	Gray	Pipe	0.1	
362	Mechanical Room	Mechanical Room	Concrete	White	Ceiling	0.2	
363	Mechanical Room	Mechanical Room	Metal	Brown	Window	0.1	
364	Mechanical Room	Exterior	Concrete	Cream	Wall A	4.4	
365	Mechanical Room	Exterior	Concrete	Cream	Wall B	4.3	
366	Mechanical Room	Exterior	Concrete	Cream	Wall C	2.2	
367	Mechanical Room	Exterior	Concrete	Cream	Wall D	3.3	
368	Mechanical Room	Exterior	Concrete	Cream	Column Wall D	4.5	
369	Mechanical Room	Exterior	Concrete	Cream	Column Wall C	4.1	
370	Mechanical Room	Exterior	Concrete	Cream	Column Wall B	7.7	
371	Mechanical Room	Exterior	Concrete	Cream	Column Wall A	3.0	
372	Mechanical Room	Exterior	Wood	Yellow	Bench	4.7	
373	Pool	Perimeter	Ceramic	White	Sign Number South	3.9	
374	Pool	Perimeter	Ceramic	White	Sign Number North	3.7	
375	Pool Bathrooms	Storage	Metal	Cream	Door Frame	0.1	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
376	Pool Bathrooms	Storage	Metal	Gray	Door	0.2	
377	Pool Bathrooms	Storage	Concrete	White	Wall A	0.1	
378	Pool Bathrooms	Storage	Concrete	White	Wall B	0.2	
379	Pool Bathrooms	Storage	Concrete	White	Wall C	0.1	
380	Pool Bathrooms	Storage	Concrete	White	Wall D	0.1	
381	Pool Bathrooms	Storage	Concrete	Gray	Floor	0.1	
382	Pool Bathrooms	Storage	Concrete	White	Ceiling	0.1	
383	Pool Bathrooms	Mechanical Room	Metal	Black	Door Frame	0.1	
384	Pool Bathrooms	Mechanical Room	Metal	White	Door	0.2	
385	Pool Bathrooms	Mechanical Room	Concrete	Yellow	Wall A - Left	0.1	
386	Pool Bathrooms	Mechanical Room	Concrete	Blue	Wall A - Right	0.2	
387	Pool Bathrooms	Mechanical Room	Concrete	Lt. Green	Wall B	0.1	
388	Pool Bathrooms	Mechanical Room	Concrete	Lt. Green	Wall C - Left	0.2	
389	Pool Bathrooms	Mechanical Room	Concrete	Blue	Wall C - Right	0.1	
390	Pool Bathrooms	Mechanical Room	Concrete	Blue	Wall D	0.2	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
391	Pool Bathrooms	Mechanical Room	Concrete	Lt. Green	Ceiling	0.1	
392	Pool Bathrooms	Mechanical Room	Concrete	Gray	Floor	0.1	
393	Pool Bleachers	Bleachers	Concrete	Green	Column Trim	1.8	
394	Pool Bleachers	Bleachers	Concrete	Green	Riser	1.6	
395	Pool Bleachers	Bleachers	Concrete	Gray	Tread	0.4	
396	Pool Bleachers	Bleachers	Concrete	Cream	Stringer	0.1	
397	Pool Bleachers	Bleachers	Metal	Gray	Column	0.1	
398	Pool Bleachers	Bleachers	Metal	Gray	Railing	0.2	
399	Pool Bleachers	Bleachers	Concrete	Cream	Inside Wall B	0.1	
400	Pool Bleachers	Bleachers	Concrete	Cream	Inside Wall D	0.2	
401	Pool Bleachers	Bleachers	Concrete	Cream	Outside Wall B	0.1	
402	Pool Bleachers	Bleachers	Concrete	Cream	Outside Wall D	0.1	
403	Pool Bleachers	Bleachers	Concrete	Green	Wall B Trim	1.8	
404	Pool Bleachers	Bleachers	Concrete	Green	Wall B Trim	1.7	
405	Pool Bleachers	Bleachers	Metal	White	Joist	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)	
406	Pool Bleachers	Bleachers	Concrete	Green	Back Trim Column	1.9		
407	Playground Area	Playground	Metal	Blue	Ladder of Slide	0.1		
408	Playground Area	Playground	Metal	Yellow	Post of Slide	0.1		
409	Playground Area	Playground	Metal	Yellow	Railing Guardrail of Slide	0.1		
410	Playground Area	Playground	Metal	Green	Monkey Bars	0.2		
411	Playground Area	Playground	Metal	Green	Monkey Bars	0.1		
412	Playground Area	Playground	Metal	Blue	Monkey Bars	0.2		
413	Playground Area	Playground	Metal	Blue	Ladder of Slide	0.3		
414	Playground Area	Playground	Metal	Blue	Post of Slide	0.1		
415	Playground Area	Playground	Metal	Red	Ladder Bridge	0.2		
<i>Note: Walking Track Not Painted</i>								
416					Calibration	1.0		
417					Calibration	1.0		
418					Calibration	1.0		
419	RE-TESTING							

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

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Date: 11/10/23
 Inspector: Elme Rivera
 XRF Serial No.: 2222

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
420	Playground Area	Playground	Metal	Blue	Ladder of Slide	0.1	
421	Playground Area	Playground	Metal	Yellow	Post of Slide	0.2	
422	Playground Area	Playground	Metal	Yellow	Railing Guardrail of Slide	0.1	
423	Playground Area	Playground	Metal	Green	Monkey Bars	0.1	
424	Playground Area	Playground	Metal	Green	Monkey Bars	0.2	
425	Playground Area	Playground	Metal	Blue	Monkey Bars	0.1	
426	Playground Area	Playground	Metal	Blue	Ladder of Slide	0.2	
427	Playground Area	Playground	Metal	Blue	Post of Slide	0.1	
428	Playground Area	Playground	Metal	Red	Ladder Bridge	0.2	
429					Calibration	1.0	
430					Calibration	1.0	
431					Calibration	1.0	

Approved By: Ady Padan Ph.D.

Date: 11/10/2023

Appendix IV



Site Location: Polideportivo Complex de Corozal (PR-CRP-000883) located on PR-821, Corozal P.R. 00783



Selective Photos



**Concrete Yellow Curbs
Painted with LBP
Left and Right Side of Entrance
Polideportivo de Corozal**



Selective Photos



**Blue Concrete Table Base
and Yellow Concrete Table Trim
Painted with LBP
Basketball Court - South
Polideportivo de Corozal**



**Blue, Green and Yellow Concrete Bench
Painted with LBP
Basketball Court - South
Polideportivo de Corozal**

Selective Photos



**Red Metal Basketball Post
Painted with LBP
Basketball Court - East and West
Polideportivo de Corozal**



**Yellow Ceramic Lower Wall Tiles
Painted with LBP
Pool Bathroom - Entrance
Polideportivo de Corozal**

Selective Photos



**Cream Concrete Walls and Columns
Painted with LBP
Mechanical Room - Exterior
Polideportivo de Corozal**



Selective Photos



**Yellow Wood Bench
Painted with LBP
Mechanical Room - Exterior
Polideportivo de Corozal**



**Cream Concrete Column Trim,
Risers, Walls B & C Trsm
Painted with LBP
Pool Bleachers
Polideportivo de Corozal**

Selective Photos



**Cream Concrete Back Trim Column
Painted with LBP
Pool Bleachers
Polideportivo de Corozal**

Appendix V

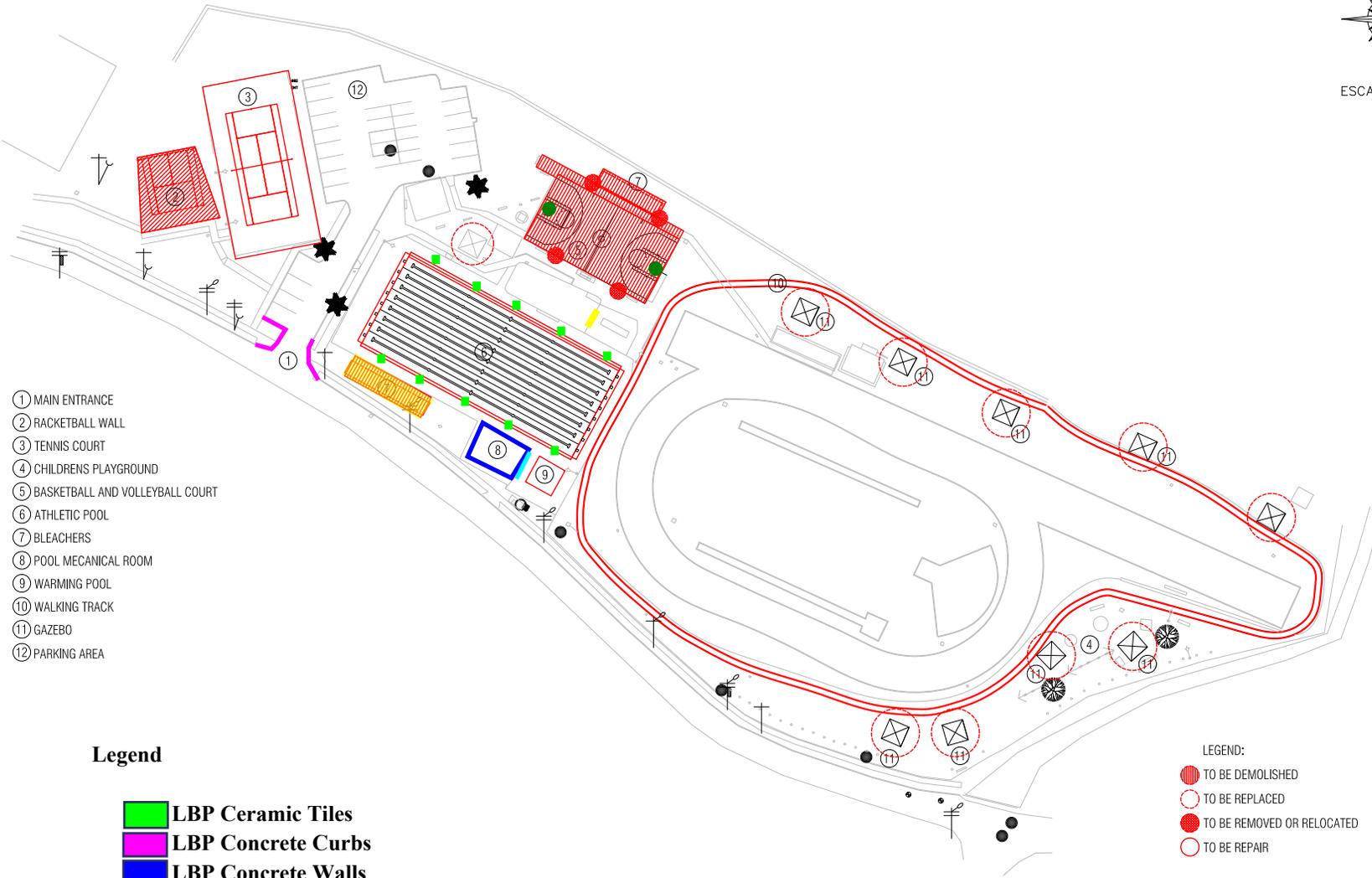


Schematic Distribution of LBP Components at Polideportivo de Corozal (PR-CRP-000883), Corozal, Puerto Rico.

PROJECT - COROZAL SPORT COMPLEX IMPROVEMENTS
 MASTER PLAN
 Scale: 1:2



THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR REVIEW ONLY AS AN INSTRUMENT OF THE PROFESSION. IT ASSUMES THE PROPERTY OF THIS OFFICE, AND SHALL NOT BE REPRODUCED OR EXHIBITED WITHOUT PERMISSION IN WRITING BY THE OWNER.



- ① MAIN ENTRANCE
- ② RACKETBALL WALL
- ③ TENNIS COURT
- ④ CHILDRENS PLAYGROUND
- ⑤ BASKETBALL AND VOLLEYBALL COURT
- ⑥ ATHLETIC POOL
- ⑦ BLEACHERS
- ⑧ POOL MECHANICAL ROOM
- ⑨ WARMING POOL
- ⑩ WALKING TRACK
- ⑪ GAZEBO
- ⑫ PARKING AREA

Legend

- LBP Ceramic Tiles
- LBP Concrete Curbs
- LBP Concrete Walls
- LBP Wood Bench
- LBP Metal Posts
- LBP Concrete Bench and Bleachers

- LEGEND:
- TO BE DEMOLISHED
 - TO BE REPLACED
 - TO BE REMOVED OR RELOCATED
 - TO BE REPAIR

APPLIED ENGINEERING GROUP
 MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
 1035 Montecocke Avenue #666 9th Floor, PR 00924
 P.O. Box 361268 San Juan, Puerto Rico 00926-1268
 Phone: 787-764-1111 Fax: 787-764-1110 Email: info@aege.com

REVISION	DATE
ISSUE FOR REVIEW - 032	08/22/2023
REVISION	DATE 1
REVISION	DATE 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

EXISTING CONDITIONS
 DEMOLITION PLAN
 PROJECT SITE

IMPROVEMENTS TO THE
 COROZAL SPORT COMPLEX
 FACILITY
 PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

DEMOLITION PLAN
 EXIST. COND.

DATE: AUGUST 2023
 SHEET: DP-101



ASBESTOS



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1.0 INTRODUCTION

2.0 GENERAL BACKGROUND

3.0 PROJECT IDENTIFICATION/DESCRIPTION

4.0 METHODS OF BUILDING INSPECTIONS

5.0 SAMPLING METHODS

6.0 INSPECTION RESULTS AND CONCLUSIONS

7.0 CONCLUSIONS

APPENDIX I - AESI Certifications and Accreditations

APPENDIX II - Hazard Assessment

APPENDIX III - Site Location

I. SUMMARY

A survey for Asbestos Containing Materials (ACM) was conducted by Analytical Environmental Services International (AES International), Inc. for Polideportivo de Corozal Complex (PR-CRP-000883) located on PR-821, Corozal, P.R. 00783.

The inspection was conducted on 11/10/23 by Elme Rivera, 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 Polideportivo de Corozal Complex (PR-CRP-000883) located on PR-821, Corozal P.R. 00783.

The survey was conducted on 11/10/23 by Elme Rivera, a DRNA/AHERA certified asbestos building inspector (see Appendix I for credentials).

The inspection was performed based on AHERA protocol, according to the following scenario:

- The structures were divided in functional spaces
- A visual inspection was performed.

Suspected materials were not observed during visual inspection.

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 number 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 latter, 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 area investigated is a sport complex that has one swimming pool with bleachers, a racket court, a tennis court, a basketball court, a mechanical room, walking tracks and a playground.

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 areas were 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 at Polideportivo de Corozal Complex (PR-CRP-000883), located on PR-821, Corozal P.R. 00783. Materials surveyed were described above. No suspected ACM were observed.

The ACM survey results do not include materials which are non-accessible, non-visible and may be present behind/inside the walls or hidden inside the structures. These materials must be assessed at the time of modernization.



Elme Rivera, DRNA Asbestos Inspector
Lic#: ASB-1223-0581-SI



CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

PGC- _____
PARA USO OFICIAL

Yo, <u>Elme Rivera</u> , mayor de edad, <u>Casado</u> , y vecino de <u>Vega Baja</u> (Nombre) (Estado Civil) (Municipio)
Dirección Postal <u>Vega Baja Lakes Calle 11 L31</u> <u>Vega Baja</u> <u>00693</u> (Pueblo) (Zip Code)
Teléfonos: Residencial (<u>939</u>) <u>969</u> - <u>1311</u> Oficina (<u>787</u>) <u>722</u> - <u>0220</u> Ext. _____ Fax (<u>787</u>) <u>724</u> - <u>5788</u>

Certifico que:

Polideportivo de Corozal Complex (PR-CRP-000883)
located on PR-821, Corozal, P.R. 00783.

- La estructura localizada en _____, la cual será objeto de una demolición se encuentra libre de asbesto.
- La información antes indicada es cierta y correcta.
- Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
- Para que así conste, firmo la presente certificación en San Juan de Puerto Rico, hoy día 21 de noviembre de 2023 (Municipio)

** Esta certificación es exclusivamente para las áreas muestreadas.*


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)

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

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

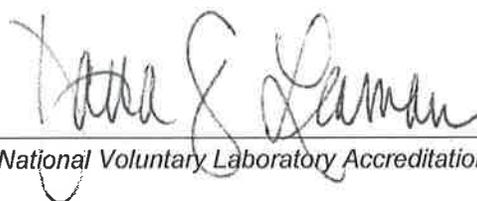
Description

18/A01

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

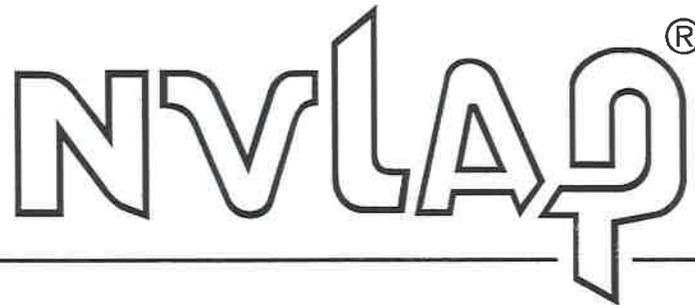
18/A03

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:*

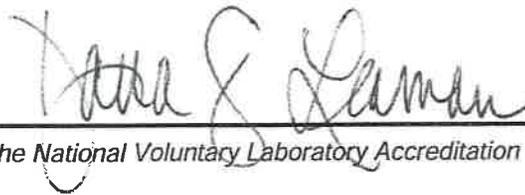
Asbestos Fiber Analysis

*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).*

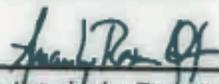
2023-01-01 through 2023-12-31

Effective Dates




For the National Voluntary Laboratory Accreditation Program

DRNA Asbestos Inspector Credentials

	<p>TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO</p>
<p>ASB-1223-0581-SI</p>	<p>Esta tarjeta autoriza a:</p>
<p>Número de Registro</p>	<p><i>Elme Rivera Pérez</i></p>
<p>14-nov-2024</p>	<p>Inspector</p>
<p>Fecha de vencimiento</p>	<p>A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.</p>
	
	<p>Firma Autorizada - Departamento Recursos Naturales y Ambientales</p>



Appendix II



ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Applied Engineering Group

Structure: Polideportivo de Corozal

Project Name: ACM Survey for Polideportivo de Corozal (PR-CRP-000883), Corozal, PR

Inspection Date: 11/21/2023

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)	Hazard Ranking (1-7)
I.D. Number	Material Description								
	No Suspected ACM were observed								
	No Roof Treatment was observed on Mechanical Room, Pool Bathroom and Main Bathrooms.								

Inspected by: Elme Rivera

Date: 11/21/2023

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

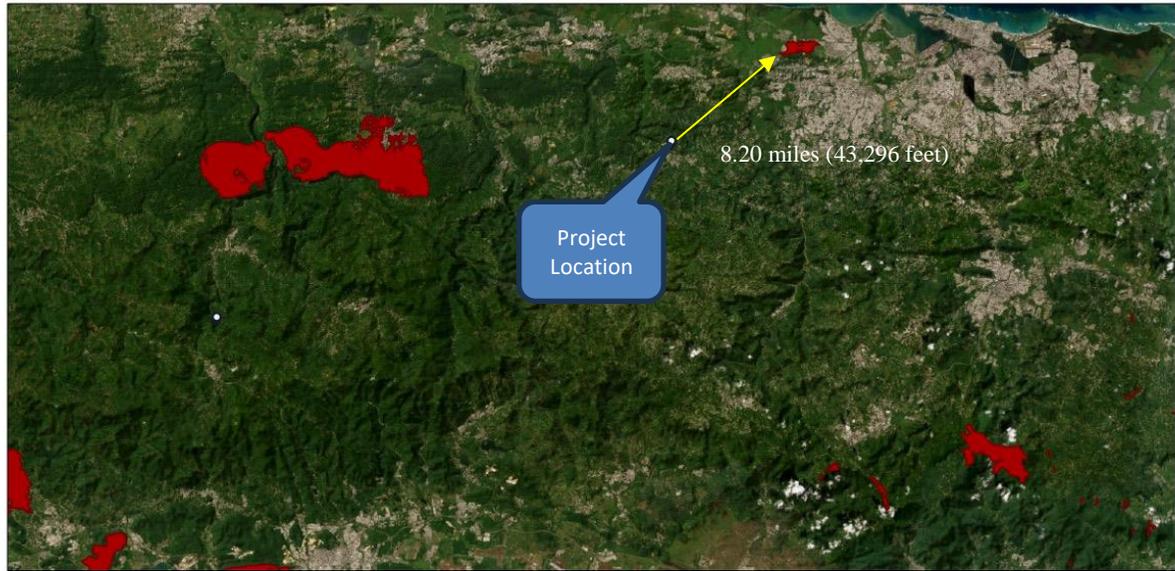
Appendix III



Site Location: Polideportivo Complex de Corozal (PR-CRP-000883) located on PR-821, Corozal P.R. 00783

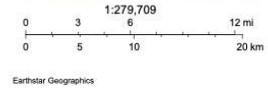


Critical Habitat Map Corozal



4/5/2024

- Project Location
- Critical Habitat



Attachment 7A: Critical Habitats

Project Name: Mejoras a las instalaciones del Polideportivo en Corozal

Location: Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000883 Coordenadas del proyecto:

[\(18.347432°, -66.322768°\)](#)

Source: US National Park Service - Interactive Map of NPS Wild and Scenic Rivers.

Website: <https://nps.maps.arcgis.com/apps/mapviewer/index.html>

Prepared by: Applied Engineering Group

Attachment 7B
Blanket Clearance Letter



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services

Field Office

P.O. Box 491

Boqueron, PR 00622

JAN 14 2013

In Reply Refer To:
FWS/R4/CESFO/BKT/HUD

Mr. Efrain Maldonado
Field Office Director
U.S. Department of Housing and Urban Development
235 Federico Costa Street, Suite 200
San Juan, Puerto Rico 00918

Re: Blanket Clearance Letter for Federally
sponsored projects, Housing and Urban
Development

Dear Mr. Maldonado:

The U.S. Fish and Wildlife Service (USFWS) is one of two lead Federal Agencies responsible for the protection and conservation of Federal Trust Resources, including threatened or endangered species listed under the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.) (ESA). In the U.S. Caribbean, the USFWS has jurisdiction over terrestrial plants and animals, the Antillean manatee and sea turtles when nesting. The National Marine Fisheries Service has jurisdiction over marine species, except for the manatee. The ESA directs all Federal agencies to participate in conserving these species. Specially, section 7 of the ESA requires Federal agencies to consult with the USFWS to ensure that actions they fund authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitat. The USFWS issued regulations in 1986 detailing the consultation process. As part of this consultation process, the USFWS review development projects to assist Federal agencies on the compliance of the ESA.

The U.S. Department of Housing and Urban Development (HUD) typically allocate grant funds for rural and urban development projects. Obligations under the ESA, as well as the National Environmental Policy Act (NEPA), require HUD to perform consultation and an environmental impact review prior to the project's authorization. Primarily, these projects involve repair or reconstruction of existing facilities associated with developed land.

In order to expedite the consultation process, the Caribbean Ecological Services Field Office has developed this Blanket Clearance Letter (BCL) to cover for activities and projects that typically result in no adverse effects to federally-listed species under our jurisdiction. If projects comply with the project criteria discussed below, no further consultation with the USFWS is needed.

Project Criteria

1. Street resurfacing.
2. Construction of gutters and sidewalks along existing roads.
3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
4. Rehabilitation of existing occupied single family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
5. Demolition of dilapidated single family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
6. Rebuilding of demolished single family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
9. Construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and the lighting associated to the facilities are not visible directly or indirectly from the beach.
10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low income families and/or facilities that have been affected by weather conditions.

Determination:

Based on the nature of the projects described above and habitat characteristics described on project criteria, we have determined that the actions and type of projects described above may be conducted within this BCL without adversely affecting federally-listed

species under our jurisdiction. Thus, consultation under Section 7 of the Endangered Species Act is not required.

In all situations, HUD, and the municipalities are expected to implement Best Management Practices, where applicable, to ensure that impacts from erosion and stream sedimentation are appropriately minimized.

The Service encourages your agency to enhance the conservation of our trust resources (i.e.; listed species, wetlands, aquatic habitats, migratory birds and marine mammals). We therefore, provide the following recommendations that have proven to help in this way.

Water Crossing Structures:

1. Use of bottomless culverts or single span bridges instead of traditional box or RCP culverts or any other water crossing structure that impacts the stream bottom, particularly in streams which support native fish. The use of bottomless culverts or a short span bridge would provide a more stable crossing and would not alter the stream habitat. However, if bottomless structures or bridges are not feasible due to cost or engineering constraints, we recommend the following criteria be used to maintain good habitat in the streams:
 - a. The stream should not be widened to fit the bridge since this can lead to sedimentation during low flows and possible bank erosion during high flows. Rather, the bridge should be designed to fit the stream channel at the point of crossing. Culverts should be sized to carry natural bank full flow. Additional flow can be capture by culverts placed at a higher elevation so as not to impact bank full flows.
 - b. Bridge abutments, wing walls or any other structures should not intrude into the active stream channel.
 - c. All culvert footings must be countersunk into the stream channel at both the invert and outlet ends at a minimum of 10% of the culvert height. This will align the water crossing structure with the slope of the stream.
 - d. Waterways must not be blocked as to impede the free movement of water and fish. Materials moved during construction, such as grubbing, earth fills, and earth cut materials must not be piled where they can fall back into the stream and block the drainage courses.
 - e. Appropriate erosion and/or sedimentation controls measures are to be undertaken to protect water quality until riverbanks are re-vegetated. It has been our experience that appropriate erosion and/or sedimentation control measures are not implemented properly by project contractors. In order to function properly, silt fences need to be buried 6" (proper depth is marked by a line on the silt fence) and supported at regular intervals by wood stakes. For that reason we are recommending that

the enclosed drawing of proper silt fence installation is included in all final project construction plans.

- f. Upon completion of a water crossing construction, any temporary fill, must be removed from the construction area and disposed in a landfill.

Limitations:

Actions that do not meet the above project criteria, such as actions requiring placement of fill, disturbance, or modification to land outside of an existing access road or ROW; actions that occur on vacant property harboring a wetland and/or forest vegetation; actions requiring excavation, clearing of native vegetation, or alteration of storm water drainage patterns; or actions that require lighting which can be directly or indirectly seen from a beach, must be individually coordinated through the Caribbean Ecological Services Field Office and will be evaluated on a case by case basis.

The Service reserves the right to revoke or modify this BCL if:

1. New information reveals that the categories of work covered in this BCL may affect listed or designated critical habitat in a manner, or to an extent, not previously considered.
2. The categories of work included in this BCL are subsequently modified to include activities not considered in this review.
3. New species are listed or critical habitat designated that may be affected.

It is our mission to work with others, to conserve, protect and enhance fish wildlife and plants and their habitats for the continuing benefit of our people.

To obtain additional information on threatened and endangered species, you may visit our website <http://www.fws.gov/caribbean/ES> where you will also find the Map of the Species by Municipality and the Map of Critical Habitat. The USFWS has also developed a web based tool called IPac. Please visit <http://www.ecos.fws.gov/ipac> and familiarize yourself with the features we offer. We encourage you to begin your project planning process by requesting an **Official Species List** for your individual project that will include all species that may occur in the vicinity of the action area and includes a map of the action area. The site will also identify designated critical habitat, or other natural resources of concern that may be affected by your proposed project. At this time, best management practices or conservation measures are not available at the site but we expect the site to continue growing in its offering.

These maps provide information on the species/habitat relations within a municipality and could provide the applicants an insight if the proposed action is covered under this BCL or may affect a species, thus requiring individual review.

If you have any additional question regarding this BCL, please do not hesitate to contact Marelisa Rivera, Deputy Field Supervisor, at 787-851-7297 extension 206.

Sincerely yours,



Edwin E. Muñiz
Field Supervisor

Enclosures (Fact Sheets)

cc: OCAM, San Juan
Office of Federal Funds, 78 Municipalities of Puerto Rico
AAA
PRFAA
DNER



Ecological Services in the Caribbean

Caribbean Field Office

Project evaluation



Our mission is to conserve, protect and enhance fish and wildlife and their habitats through consultation, cooperation and communication for the continuing benefit of the American people.

Legal authorities:

- Endangered Species Act (ESA)
- Fish and Wildlife Coordination Act
- Migratory Bird Treaty Act
- Coastal Barriers Act

Roles and Responsibilities:

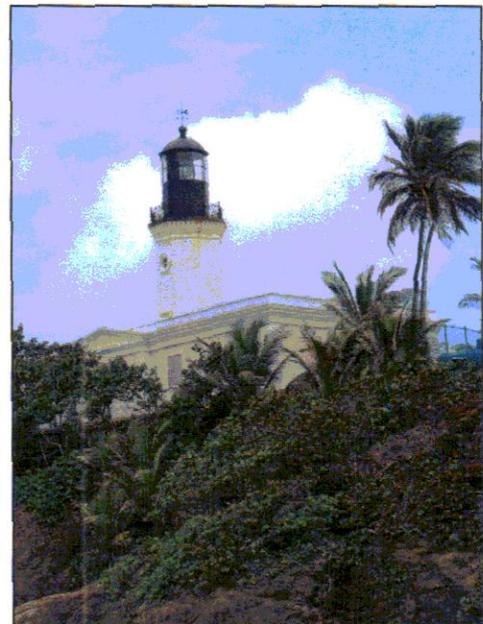
- Provide technical assistance to Federal and Commonwealth agencies to minimize possible impacts of land and water projects to our trust resources
 - *Wetlands and other aquatic habitats
 - *Endangered Species and their habitats
 - *Migratory Birds
 - *Critical Wildlife Areas
 - *Coastal Barriers
- Assist with ESA Section 7 compliance through informal and formal consultation processes

How do we assist others?

- Determine presence / absence of wetland resources, threatened and endangered species habitat, coastal barriers, important wildlife areas within the action area
- Evaluate possible direct, indirect and cumulative impacts
- Provide conservation recommendations to avoid, minimize and/or mitigate impacts
- General recommendations for habitat enhancement

Minimum requirements for the evaluation of projects:

- An 8.5 by 11 inch copy of the specific site location on a USGS topographic map (1:20,000) marked with an arrow (➔)
- Project description
- Aerial photo of the project site
- Latitude and Longitude (degrees, minutes and seconds or decimal degrees)
- Environmental Documents (EA and EIS)
- Specific studies (by qualified personnel)



For more information:

US Fish and Wildlife Service
Caribbean Field Office
Raod 301, Km. 5.1
Bo. Corozo

Boquerón, PR 00622

<http://www.fws.gov>

<http://www.fws.gov/caribbean/es>



Endangered Species Lists Using Web-based Tools

The U.S. Fish and Wildlife Service's Caribbean Ecological Services Field Office (CESFO) provides technical assistance to private individuals and organizations, as well as Federal, state, and local agencies pursuant to the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.). To assist project sponsors or applicants with the process of determining whether a Federally-listed species and/or "critical habitat" may occur within their proposed project area, we have developed Web-based tools. These tools were developed primarily to assist Federal agencies that are consulting with us under Section 7(a)(2) of the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

IPaC. The US Fish & Wildlife Service (USFWS) has a tool named IPaC. IPaC stands for Information, Planning, and Conservation. This system is designed for easy, public access to the natural resources information for which the USFWS has trust or regulatory responsibility. Examples include Threatened and Endangered species, migratory birds, National Refuge lands, Coastal Barrier Resource Units, and the management of invasive species. One of the primary goals of the IPaC system is to provide information in a manner that assists individuals in planning their activities within the context of natural resource conservation. The IPaC system also assists people through the various regulatory consultation, permitting and approval processes administered by the USFWS, helping achieve more effective and efficient results for both the project proponents and natural resources. Through IPaC, you can get a preliminary USFWS species list in addition to links to species life history information, the USFWS Migratory Bird program, and more. You can access IPaC at: <http://ecos.fws.gov/ipac>

CESFO List of Threatened & Endangered Species and Critical Habitat Designations: CESFO has developed another tool (Species Map) that can be used as a quick reference to find out where the Federally-listed species



are known to occur, as well as those likely to occur, in any given municipality in Puerto Rico and island in the

U.S. Virgin islands. It identifies general areas where the species may be located. However, it does not represent the absolute distribution of the species and does not constitute a recommendation or comment issued by our agency in reference to a proposed project. This list represents the best available information regarding known or likely occurrences of Federally-listed species and is subject to change as new information becomes available. You can access this database at <http://www.fws.gov/caribbean/es/PDF/Map/pdf>



Be aware that Section 9 of the ESA prohibits unauthorized taking of listed species and applies to Federal and non-Federal activities. Under the Act, it is illegal for any person subject to the jurisdiction of the United States to take (includes harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect; or to attempt any of these), import or export, ship in interstate or foreign commerce in the course of commercial activity, or sell or offer for sale in interstate or foreign commerce any endangered fish or wildlife species and most threatened fish and wildlife species. It is also illegal to possess, sell, deliver, carry, transport, or ship any such wildlife that has been taken illegally. "Harm" includes any act which actually kills or injures fish or wildlife, and case law has clarified that such acts may include significant habitat modification or degradation that significantly impairs

essential behavioral patterns of fish or wildlife. For projects not authorized, funded, or carried out by a Federal agency, consultation with the Service pursuant to Section 7(a)(2) of the ESA is not required. However, no person is authorized to "take" any listed species without appropriate authorizations from the Service. Therefore, we provide technical assistance to individuals and agencies to assist with project planning to avoid the potential for "take," or when appropriate, to provide assistance with their application for an incidental take permit pursuant to Section 10(a)(1)(B) of the ESA.

If the project is within the distribution of the species, additional information may be needed to determine the presence of habitat. In some cases, specialized surveys may be needed to determine the presence or absence of the species in a particular area.

For additional information on fish and wildlife resources or State-listed species, we suggest contacting the Puerto Rico Department of Natural and Environmental Resources and the U.S. Virgin Islands Department of Planning and Natural Resources.

For further assistance, please feel free to contact us at (787) 851-7297 or visit our Web page at www.fws.gov/caribbean/es if you need further assistance.

For further information visit our national websites at:

<http://www.fws.gov>

<http://ecos.fws.gov>



U.S. Fish & Wildlife Service

Consultations with Federal Agencies

Section 7 of the Endangered Species Act

The purposes of the Endangered Species Act are to provide a means for conserving the ecosystems upon which endangered and threatened species depend and a program for the conservation of such species. The ESA directs all Federal agencies to participate in conserving these species. Specifically, section 7 (a)(1) of the ESA charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies to ensure that their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats.

How does the consultation process support the recovery of species and their ecosystems?

The Endangered Species Program of the U.S. Fish and Wildlife Service uses section 7 tools in partnership with other Service programs and other Federal agencies to collaboratively solve conservation challenges, as well as create opportunities, using section 7 consultations, to recover the ecosystems of listed species. Consultations also provide ways to implement recovery tasks by addressing threats to listed species that may result from Federal agency programs and activities.

What is the consultation process that occurs under section 7(a)(2)?

The provision under section 7 that is most often associated with the Service and other Federal agencies is section 7(a)(2). It requires Federal agencies to consult with the Service to ensure that actions they fund, authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitats. The



In response to requests for consultations from the U. S. Coast Guard with regard to manatees and sea turtles, the South Florida Office of the U. S. Fish and Wildlife Service has provided guidance about events such as fireworks displays, regattas, boat parades and races, and fishing tournaments.

Service issued regulations in 1986 detailing the consultation process, and we have since completed a handbook describing the process in detail. The handbook is available on our web site at http://www.fws.gov/endangered/esa-library/pdf/esa_section7_handbook.pdf.

What is the Service doing to facilitate the consultation process?

Designing projects in ways that are compatible with the conservation needs of listed species and their ecosystems is among the most effective methods of ensuring a more rapid and efficient section 7 consultation process, as well as species' recovery. The Information, Planning, and Conservation System is an emerging tool for action agencies, their applicants, and other project proponents to use

during the initial phases of project development and assessment. The system will allow for more effective integration of listed resource conservation needs and the eventual streamlining of section 7(a)(2) consultation.

How does a consultation get started?

Early coordination is one of the most effective methods of (1) streamlining section 7 consultation, (2) reducing the need to make project modifications during the consultation process, and (3) improving the ability of section 7 to fulfill its role as a recovery tool. Federal agencies, applicants, and the Service engage in early coordination to develop methods of integrating proposed activities with the conservation needs of listed resources before the proposed actions are fully designed.

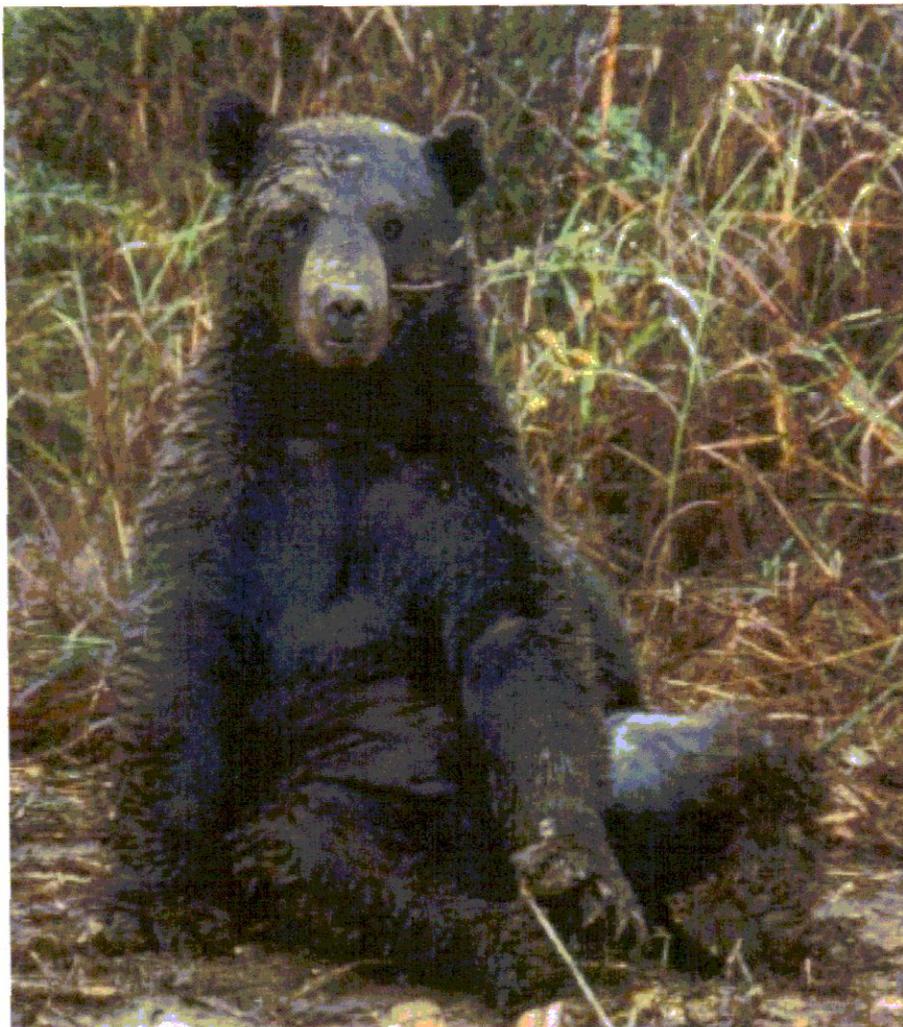
USGS

Before initiating an action, the Federal agency or its non-Federal permit applicant should coordinate with the Service as to the species that may be within their action area. If a listed species is present, the Federal agency must determine whether the project may affect it. If so, consultation may be required. If the action agency determines (and the Service agrees) that the project is not likely to adversely affect a listed species or designated critical habitat, and the Service concurs in writing, then the consultation (informal to this point) is concluded.

What happens if a Federal project may adversely affect a listed species?

If the Federal agency determines that a project is likely to adversely affect a listed species or designated critical habitat, the agency initiates formal consultation by providing information with regard to the nature of the anticipated effects. The ESA requires that consultation be completed within 90 days, and the regulations allow an additional 45 days for the Service to prepare a biological opinion. The analysis of whether or not the proposed action is likely to jeopardize the continued existence of the species or adversely modify designated critical habitat is contained in a biological opinion. If a jeopardy or adverse modification determination is made, the biological opinion must identify any reasonable and prudent alternatives that could allow the project to move forward.

The Service must anticipate any incidental take that may result from the proposed project and, provided that such take will not jeopardize the continued existence of the listed species, authorize that take in an incidental take statement. The latter contains clear terms and conditions designed to reduce the impact of the anticipated take to the species involved. The authorization of incidental take is contingent upon the Federal agency carrying out the terms and conditions. If the Service issues either a non-jeopardy opinion or a jeopardy opinion that contains reasonable and prudent alternatives, it may include an incidental take statement.



Dan Anderson/USFWS

This Louisiana black bear was one of the largest ever captured on Tensas River National Wildlife Refuge, weighing in at over 400 pounds. The bear was trapped using a leg-hold cable snare that does not injure the animal. The biological information obtained, including weight, sex, a tooth for aging, and other measurements, is part of the Service's ongoing research efforts to aid in the recovery of this threatened subspecies. Afterwards, the bear was released on site.

What is the consultation workload?

In Fiscal Year 2010, the Service assisted Federal agencies in carrying out their responsibilities under section 7 on more than 30,000 occasions. The vast majority of the workload was technical assistance to Federal agencies and informal consultations on actions that were not likely to adversely affect listed species or their designated critical habitat. A large percentage of projects, as initially planned, would have had adverse impacts to listed species, but were dealt with through informal consultation. In these situations, the Federal agency made changes to the project design so that adverse impacts to listed species were avoided.

What type of guidance is available for other Federal agencies?

Guidance is available on our section 7 web site at <http://www.fws.gov/endangered/what-we-do/consultations-overview.html>. Please call us at 703-358-2171 if you have any questions, or see our Endangered Species Program Contacts at <http://www.fws.gov/endangered/regions/index.html> to locate a Service office in your area.

**U. S. Fish and Wildlife Service
Endangered Species Program
4401 N. Fairfax Drive, Room 420
Arlington, VA 22203
703-358-2171
<http://www.fws.gov/endangered/>**

April 2011

Attachment 7C
USFWS Consultation



Transmittal Letter

September 5, 2024

Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
P.O. Box 491
Boquerón, Puerto Rico 00622
Email: caribbean@es@fws.gov

 Based on the information provided, we determined the project proposed qualifies for the blanket clearance letter. Nevertheless, if the project is modified this office should be contacted concerning the need for the initiation of consultation under section 7 of Endangered Species Act of 1973.

Reviewer DAMARIS ROMAN RUIZ Digitally signed by DAMARIS ROMAN RUIZ
Date: 2024.10.02 08:31:26 -04'00'

LOURDES MENA Digitally signed by LOURDES MENA
Date: 2024.10.02 09:17:44 -04'00'
Caribbean ES Field Supervisor

RE: USFWS Endangered Species Act Certifications – August 2024

We are submitting the following Self-Certifications for projects under the CDBG-DR Small Business Financing Program and City Revitalization Program. Attached are included the Self-Certifications that certify that the projects are in compliance and are not likely to adversely affect federally-listed species.

The following table includes the projects that are in compliance with the Blanket Clearance Letter for the Endangered Species act of 1973, as amended, and the Fish and Wildlife Coordination Act.

Project Number	Project Name
PR-CRP-000071	Reconstruction of Public Infrastructure - Habitable City - Aibonito Downtown Area
PR-CRP-000544	Rehabilitación y Mejoras en la Plaza Pública de Naguabo y sus Alrededores
PR-CRP-000664	Mejoras a infraestructura, accesibilidad, remoción de obstáculos y Mejoras a sistema de alumbrado Centro Urbano Rincón
PR-CRP-000883	Mejoras a facilidades del Polideportivo de Corozal
PR-CRP-000885	Improvements to Corozal Plaza
PR-CRP-000941	Paseo Lineal
PR-CRP-001036	Calle Completa Plaza de los Artesanos Palmer
PR-SBF-09392	JM CELULAR

For more information, please contact the Permits and Environmental Compliance Division at environmentcdbg@vivienda.pr.gov or at (787)274.2527 ext. 4320.

Sincerely,

Permits and Environmental Compliance Division
Disaster Recovery Office



Self-Certification

<http://www.fws.gov/caribbean/ES/Index.html>

Endangered Species Act Certification

The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter in compliance with Endangered Species Act of 1973, as amended, and the Fish and Wildlife Coordination Act for federally funded projects.

The Service determined that projects in compliance with the following criteria are not likely to adversely affect federally listed species.

The Puerto Rico Department of Housing (PRDOH) certifies that the following project **Mejoras a facilidades del Polideportivo de Corozal (PR-CRP-000883)**, This proposal has as one of the main sports facilities of the Municipality of Corozal. Preparation of an environmental review (NEPA Compliance) will be considered in full compliance with the requirements of the National Environmental Policy Act and 24 CFR Part 58, HUD Environmental Review Regulations and archaeological survey communications and consultations. The project includes improvements to make the Sports Complex more resilient, functional, accessible, and valuable to the people of Corozal. The proposed changes include improvements to the swimming pools, sports courts, landscaping, as well as lighting, finishing, playgrounds, and rubber path. Located at 18.347432°, -66.322768°, Calle Urbano Ramírez, Corozal, PR 000883, complies with:

Check	Project Criteria
<input type="checkbox"/>	1. Street resurfacing.
<input type="checkbox"/>	2. Construction of gutters and sidewalks along existing roads.
<input type="checkbox"/>	3. Reconstruction or emergency repairs of existing buildings, facilities, and homes.
<input type="checkbox"/>	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.

<input checked="" type="checkbox"/>	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.
<input checked="" type="checkbox"/>	6. Rebuilding of demolished single-family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
<input type="checkbox"/>	7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
<input checked="" type="checkbox"/>	8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	9. Construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low-income families and/or facilities that have been affected by weather conditions.

USFWS Self-Certification
PR-CRP-000883



Aldo A. Rivera-Vázquez, PE
Director for Permits and Environmental
Compliance Division
Puerto Rico Department of Housing
Office of Disaster Recovery
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdbg@vivienda.pr.gov



Date

Attachment 1

Site Photo Log

(FEMA Damage Inventory)

Applicant: Corozal Municipality	Damage Inventory # 170135	Category G
Work Order # 39055 FIPS # 047-99047-00	Date: 05/15/2019	GPS 18.348376, -66.323976
Site Inspector: Walid Wasi	Damage Facility: Polidepastivo (Park)	

Damage Description: **Photo#**
 Gazebo #1 damaged roof from the front



Damage Description **Photo#**
 Gazebo #1 damaged roof from the side



Damage Description: **Photo#**
 Gazebo #2 damaged roof from the back



Damage Description **Photo#**
 Gazebo #2 damage from the side



Applicant: Corozal Municipality **Damage Inventory #** 170135 **Category** G

Work Order# 39055 **FIPS #** 047-99047-00 **Date:** 05/15/2019 **GPS**

Site Inspector: Walid Wasi **Damage Facility:** Polidepastivo (Park)

Photo#
Gazebo #3 front view



Damage Description **Photo#**
Gazebo #3 under the covering water damage



Damage Description: **Photo#**
Gazebo #4 roof damage from the side



Damage Description **Photo#**
Gazebo #4 roof damage on the front and side



Applicant: Corozal Municipality		Damage Inventory # 170135		Category G	
Work Order # 39055		FIPS # 047-99047-00		Date: 05/15/2019	
Site Inspector: Walid Wasi				GPS	
		Damage Facility: Polidepastivo (Park)			
		Photo#		Photo#	
Gazebo #5 Side roof damage		Gazebo #5 opposite side of the roof missing shingle		Gazebo #5 opposite side of the roof missing shingle	
					
Damage Description:		Photo#		Photo#	
Gazebo #7 missing shingle's		Gazebo #8 under the roof of tree damage		Gazebo #8 under the roof of tree damage	
					

Applicant: Corozal Municipality		Damage Inventory # 170135	Category G
Work Order # 39055	FIPS # 047-99047-00	Date: 05/15/2019	GPS
Site Inspector: Walid Wasi		Damage Facility: Polidepastivo (Park)	

Damage Description:
Gazebo #8 front outside view of tree damage

Photo#



Damage Description
Gazebo #8 Side view of tree damage

Photo#



Damage Description:
Gazebo #9

Photo#



Damage Description
Gazebo #9

Photo#



Applicant: Corozal Municipality		Damage Inventory # 170135	Category G
Work Order # 39055	FIPS # 047-99047-00	Date: 05/15/2019	GPS
Site Inspector: Walid Wasi		Damage Facility: Polidepastivo (Park)	

Damage Description:
Running Track

Photo#



Damage Description
Running track with missing spots

Photo#



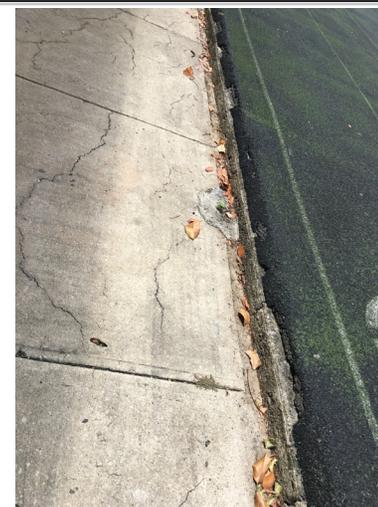
Damage Description:
Missing spots on the track

Photo#



Damage Description
Chipping accruing around the track edge

Photo#



Applicant: Corozal Municipality	Damage Inventory # 170135	Category G
Work Order# 39055 FIPS # 047-99047-00	Date: 05/15/2019	GPS
Site Inspector: Walid Wasi	Damage Facility: Polidepastivo (Park)	

Damage Description:
More damage to the running track

Photo#



Damage Description
Damage to the running track with vegetative growth

Photo#



Damage Description:
More chipping on the running track

Photo#



Damage Description
Large chipping on the straight part of the track

Photo#



Applicant: Corozal Municipality	Damage Inventory # 170135	Category G
Work Order # 39055 FIPS # 047-99047-00	Date: 05/15/2019	GPS
Site Inspector: Walid Wasi	Damage Facility: Polidepastivo (Park)	

Damage Description: **Photo#**

Over view of the swimming pool and decking



Damage Description **Photo#**

Width of the decking around the pool with a size reference



Damage Description: **Photo#**

Closer look at overall view of swimming pool with vegetative growth around and on the pool decking.



Damage Description **Photo#**

Sizing of the pool tile's reference



Attachment 2

Location Map

Critical Habitat Map

Wetlands Map



Title: Site Location Map - Aerial View Map

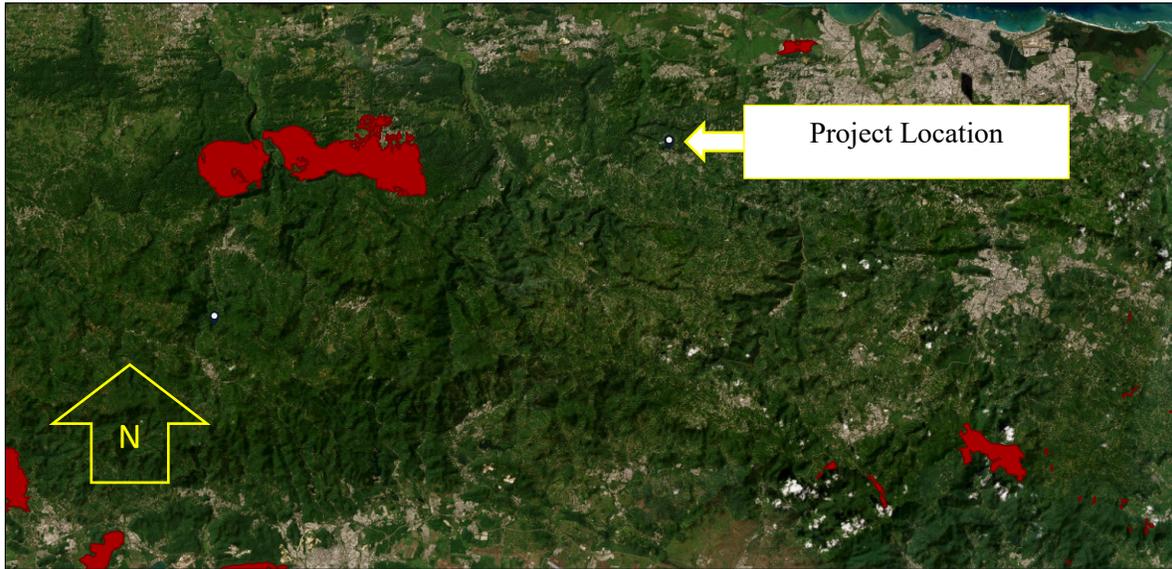
Project: Mejoras a las instalaciones del Polideportivo en Corozal

Source: Google Earth

Website: <https://earth.google.com/web/>

Author: Applied Engineering Group, PSC

Critical Habitat Map Corozal



4/5/2024

1:279,709
0 3 6 12 mi
0 5 10 20 km
Earthstar Geographics

Map 2: Critical Habitats

Project Name: Mejoras a las instalaciones del Polideportivo en Corozal

Location: Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000883 Coordenadas del proyecto: [\(18.347432°, -66.322768°\)](#)

Source: US National Park Service - Interactive Map of NPS Wild and Scenic Rivers.

Website: <https://nps.maps.arcgis.com/apps/mapviewer/index.html>

Author: Applied Engineering Group



September 18, 2023

- | | | |
|--------------------------------|-----------------------------------|----------|
| Wetlands | Freshwater Emergent Wetland | Lake |
| Estuarine and Marine Deepwater | Freshwater Forested/Shrub Wetland | Other |
| Estuarine and Marine Wetland | 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

Map 3: Wetlands

Project Name: Mejoras a las instalaciones del Polideportivo en Corozal

Location: Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000883

Coordenadas del proyecto: [18.347432°, -66.322768°](https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper)

Source: USFWS National Wetlands Inventory – Wetlands Mapper

Website: <https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>

Author: Applied Engineering Group

Attachment 3

IPaC Report



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:

05/21/2024 16:59:17 UTC

Project code: 2024-0093526

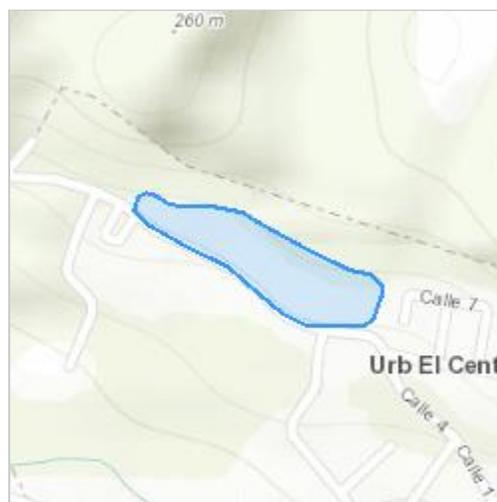
Project Name: Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883

Subject: Consistency letter for the project named 'Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883' 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 May 21, 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 'Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883'. The project is located in Corozal County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.347990449999998,-66.32347007825781,14z>



The following description was provided for the project 'Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883':

Direction, Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000783, Coordinates del proyecto: (18.347432°, -66.322768°).

Repair work to the Sports Center includes:

1. Improvements to the following Sports Courts

- Demolition of the existing handball wall for the construction of a new volleyball court with the preparation of bleachers using the natural topography of the premises (Element 1).

- Renovation of the tennis court (Element 2).

- o Surface preparation, paint application, fencing, lighting improvements, and cyclone fence replacement.

- Basketball Court (Element 5).

- o Installing a Steel Structural Roof for the Basketball Court

- o Electrical System Repair

- o Plumbing and drain system improvement work

- o Installation of nets for bird control

- o Demolition and reconstruction of the concrete slab, including existing bleachers.

- Total renovation of the swimming pool with its facilities (incorporating selective demolition), including its mechanical system, electrical system, its warming pool, bleachers, and repairs to the cyclone fence. (Element 4).

- Landscaping, playgrounds, and rubber trail.

- Replacement of the existing playground (Element 7) and the installation of a new playground (two areas within the Sports Center).

- o Both play areas, for their supports and/or anchors, require selective excavation of no more than 18".

- Extension to the trail, expanding sidewalk and creating ADA-compliant accessibility ramp (section marked in red in Figure 2).

- Pruning and/or replacing trees if necessary

- Lighting

- o Replacement and upgrades of existing lighting (aluminum poles with solar panels and LED lamps).

- Entrance to the Sports Center

- o Redesign of the entrance to the Sports Center.

- Repair of one (1) kiosk

- o Demolition and interior improvements.

- Pedestrian Entrance

- o New concrete wall, incorporating landscape elements.

- Removal of approximately fifty linear feet of cyclone fence (50 linear FT).

- Vehicular Entry

- o New aluminum gate, landscaping work and removal of approximately 300 linear feet.

- Construction of green bleachers
- Construction of green stands using vegetation (grass) and the natural contour of the area.
- Kiosk:
 - o Demolition on the inside for a remodel, paint application on the inside as well as on the outside.
- Bathrooms:
 - o Renovation of the interior with the application of paint in the facilities.
- “Electrical Pedestal and Enclosure”
- Removal of material and cleaning of the area.

Based on your answers and the assistance of the Service’s Caribbean DKey, you determined the proposed Action will have “No Effect” on the following species:

Species	Listing Status	Determination
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	No effect

Thank you for informing the Service of your “No Effect” determination(s) for this project. No further consultation/coordination for this project is required for these species. 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.

This letter serves as documentation of your consideration of the federally listed species as required under section 7 of the ESA. However, effects to the other federally listed species or critical habitat as listed below from the “IPaC print-out for the project” (see below) should be considered as part of your ESA review for the project.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a “No Effect” (NE) 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 NE 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.

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

Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883

2. Description

The following description was provided for the project 'Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883':

Direction, Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000783, Coordinates del proyecto: (18.347432°, -66.322768°).

Repair work to the Sports Center includes:

1. Improvements to the following Sports Courts

- Demolition of the existing handball wall for the construction of a new volleyball court with the preparation of bleachers using the natural topography of the premises (Element 1).
- Renovation of the tennis court (Element 2).
 - o Surface preparation, paint application, fencing, lighting improvements, and cyclone fence replacement.

• Basketball Court (Element 5).

- o Installing a Steel Structural Roof for the Basketball Court
- o Electrical System Repair
- o Plumbing and drain system improvement work
- o Installation of nets for bird control
- o Demolition and reconstruction of the concrete slab, including existing bleachers.

• Total renovation of the swimming pool with its facilities (incorporating selective demolition), including its mechanical system, electrical system, its warming pool, bleachers, and repairs to the cyclone fence. (Element 4).

• Landscaping, playgrounds, and rubber trail.

• Replacement of the existing playground (Element 7) and the installation of a new playground (two areas within the Sports Center).

o Both play areas, for their supports and/or anchors, require selective excavation of no more than 18".

• Extension to the trail, expanding sidewalk and creating ADA-compliant accessibility ramp (section marked in red in Figure 2).

• Pruning and/or replacing trees if necessary

• Lighting

o Replacement and upgrades of existing lighting (aluminum poles with solar panels and LED lamps).

• Entrance to the Sports Center

o Redesign of the entrance to the Sports Center.

• Repair of one (1) kiosk

- o Demolition and interior improvements.
 - Pedestrian Entrance
- o New concrete wall, incorporating landscape elements.
 - Removal of approximately fifty linear feet of cyclone fence (50 linear FT).
 - Vehicular Entry
 - New aluminum gate, landscaping work and removal of approximately 300 linear feet.
 - Construction of green bleachers
 - Construction of green stands using vegetation (grass) and the natural contour of the area.
 - Kiosk:
- o Demolition on the inside for a remodel, paint application on the inside as well as on the outside.
 - Bathrooms:
- o Renovation of the interior with the application of paint in the facilities.
 - “Electrical Pedestal and Enclosure”
 - Removal of material and cleaning of the area.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.347990449999998,-66.32347007825781,14z>



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. .

Yes

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

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

Agency: Municipio of Corozal
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:

05/21/2024 16:54:04 UTC

Project Code: 2024-0093526

Project Name: Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883

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
- 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: 2024-0093526

Project Name: Mejoras a las instalaciones del Complejo Deportivo Corozal PR-CRP-000883

Project Type: Recreation - Maintenance / Modification

Project Description: Direction, Bo. Pueblo, Calle Urbano Ramírez, Corozal PR 000783, Coordinates del proyecto: (18.347432°, -66.322768°).

Repair work to the Sports Center includes:

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- o Redesign of the entrance to the Sports Center.

- Repair of one (1) kiosk

- o Demolition and interior improvements.

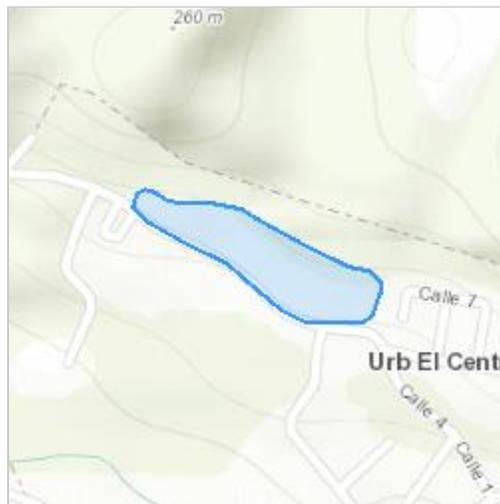
- Pedestrian Entrance

- o New concrete wall, incorporating landscape elements.

- Removal of approximately fifty linear feet of cyclone fence (50 linear FT).
- Vehicular Entry
- New aluminum gate, landscaping work and removal of approximately 300 linear feet.
- Construction of green bleachers
- Construction of green stands using vegetation (grass) and the natural contour of the area.
- Kiosk:
 - o Demolition on the inside for a remodel, paint application on the inside as well as on the outside.
- Bathrooms:
 - o Renovation of the interior with the application of paint in the facilities.
- “Electrical Pedestal and Enclosure”
- Removal of material and cleaning of the area.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.347990449999998,-66.32347007825781,14z>



Counties: Corozal County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 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.

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/VI3WDGBWCZG2PDQU2F7M4RRQDE/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.

WETLANDS

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

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Municipio of Corozal
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

IPaC resource list

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

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

Location

Corozal County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

☎ (939) 320-3135

📠 (787) 851-7440

✉ CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

Endangered species

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

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

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

list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

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

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

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

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

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Reptiles

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

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

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

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

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

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

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

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

What if I have eagles on my list?

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

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 habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The [data](#) in this location indicates there are no migratory [birds of conservation concern](#) expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

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

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

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

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

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

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

Facilities

National Wildlife Refuge lands

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

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

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

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

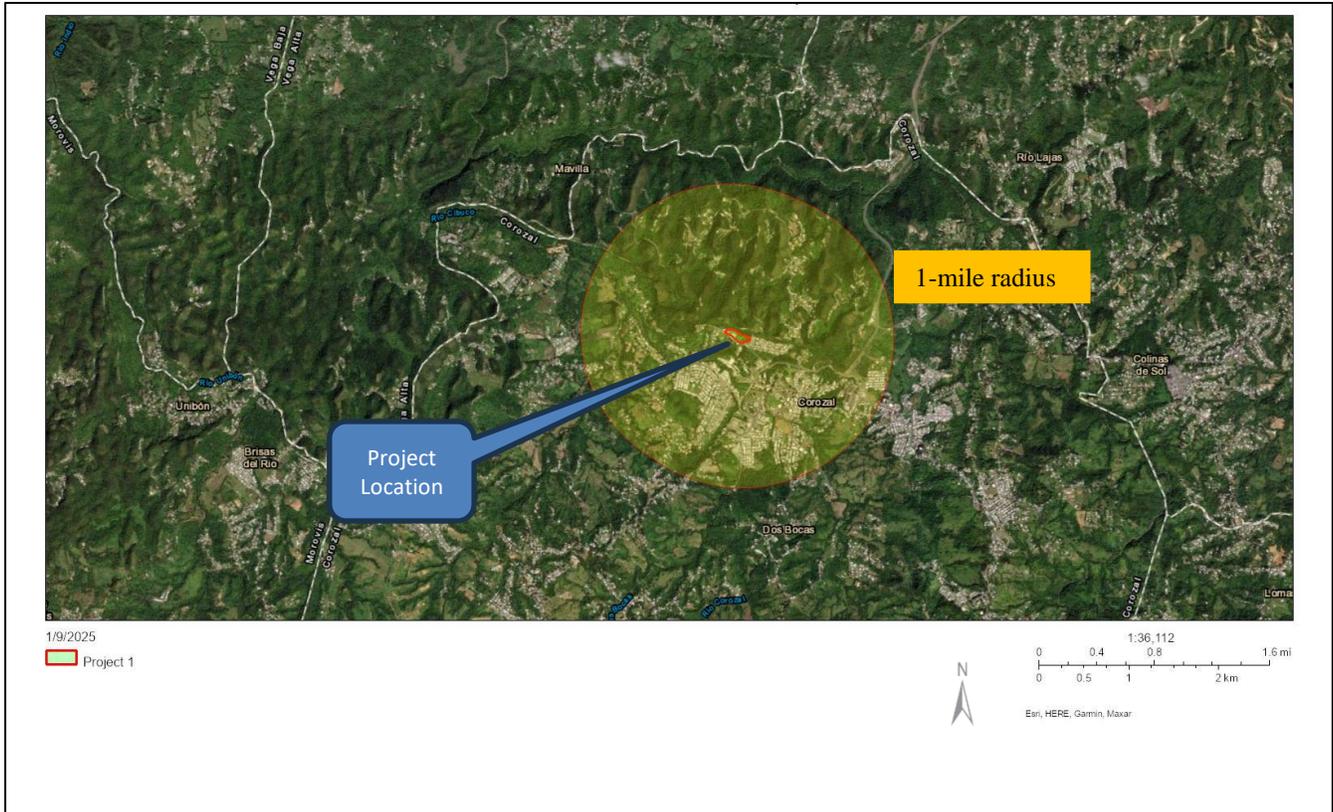
Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

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

Data precautions

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



Attachment 8: Explosive and Flammables Hazard

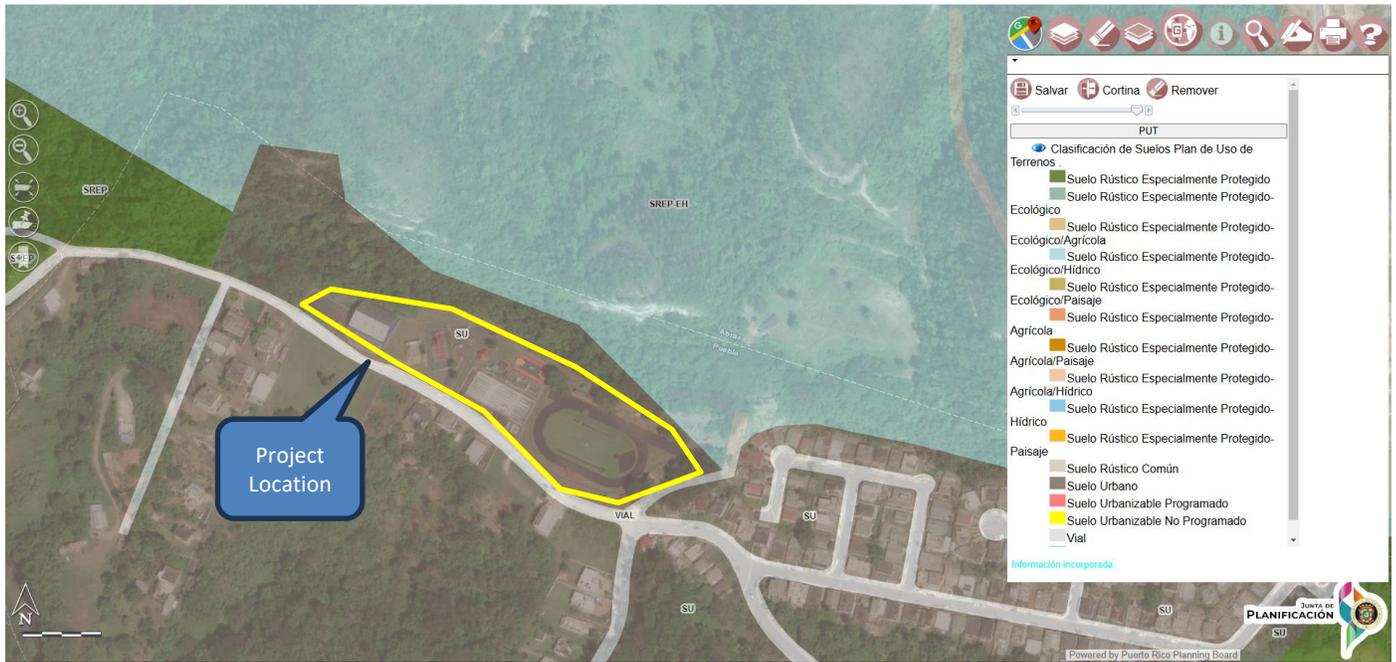
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: EPA

Website: <https://ejsscreen.epa.gov/mapper/index.html?wherestr=Corozal+Puerto+Rico>

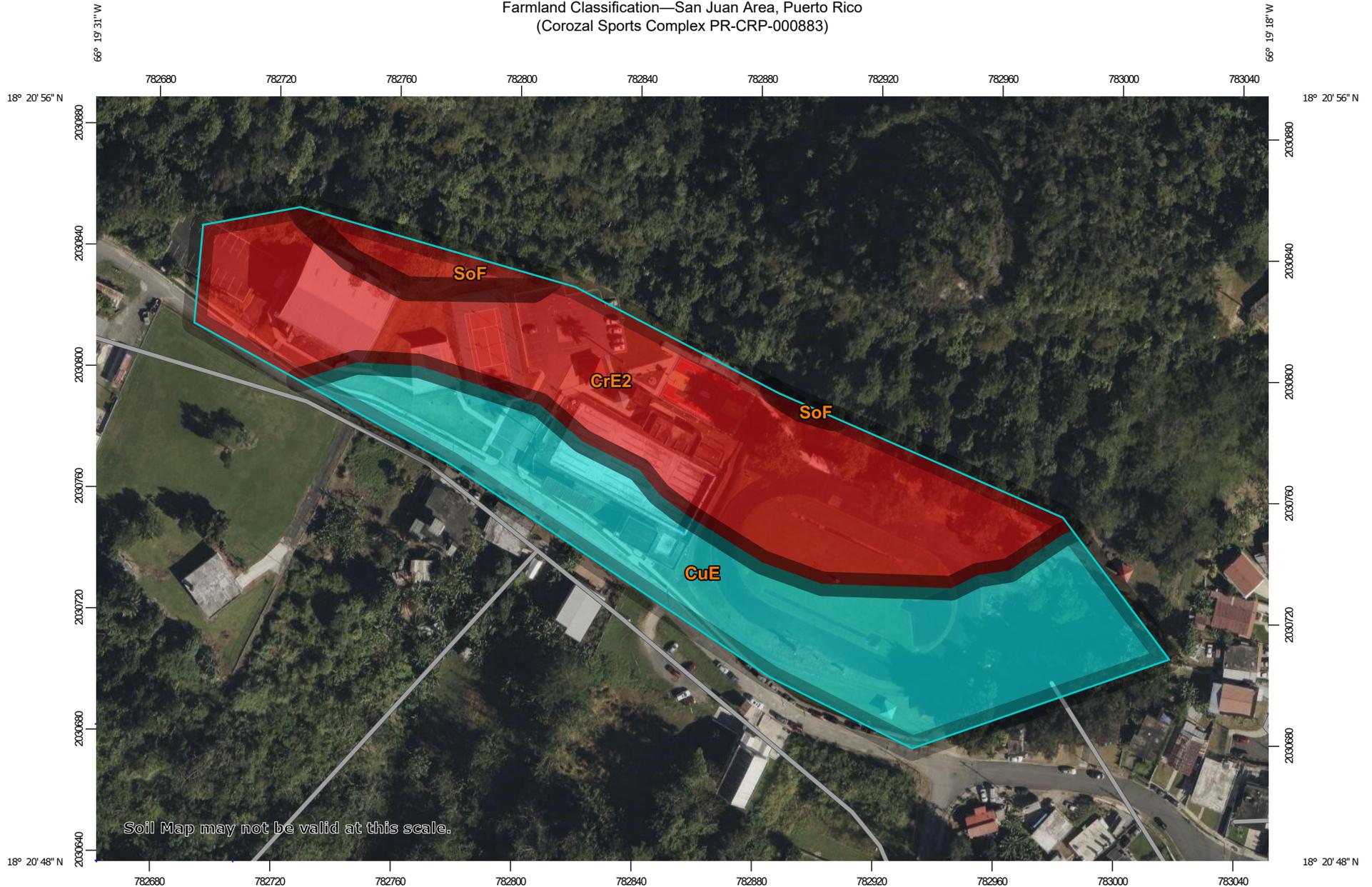
Prepared by: Applied Engineering Group



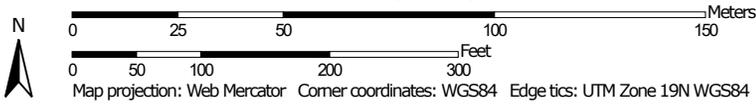
Attachment 9A: Puerto Rico Planning Board's – Terrain Use Map (Plan de Uso de Terreno) Project Name: Mejoras a las instalaciones del Polideportivo en Corozal
 Location: Bo. [18.347432°](#), [-66.322768°](#), Pueblo, Calle Urbano Ramírez, Corozal PR 000883
 Source: Puerto Rico Planning Board
 Website: <https://gis.jp.pr.gov/mipr/>
 Prepared by: ICF

Attachment 9B
USDA Web Soil Survey

Farmland Classification—San Juan Area, Puerto Rico
(Corozal Sports Complex PR-CRP-000883)



Map Scale: 1:1,780 if printed on A landscape (11" x 8.5") sheet.



Farmland Classification—San Juan Area, Puerto Rico
(Corozal Sports Complex PR-CRP-000883)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

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

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

-  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated and drained
-  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
-  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

-  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough
-  Farmland of statewide importance, if thawed
-  Farmland of local importance
-  Farmland of local importance, if irrigated

-  Farmland of unique importance
-  Not rated or not available

Soil Rating Lines

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

Farmland Classification—San Juan Area, Puerto Rico
(Corozal Sports Complex PR-CRP-000883)

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

Farmland Classification—San Juan Area, Puerto Rico
(Corozal Sports Complex PR-CRP-000883)

<ul style="list-style-type: none">  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if irrigated and drained  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 	<ul style="list-style-type: none">  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if warm enough  Farmland of statewide importance, if thawed  Farmland of local importance  Farmland of local importance, if irrigated 	<ul style="list-style-type: none">  Farmland of unique importance  Not rated or not available <p>Water Features</p> <ul style="list-style-type: none">  Streams and Canals <p>Transportation</p> <ul style="list-style-type: none">  Rails  Interstate Highways  US Routes  Major Roads  Local Roads <p>Background</p> <ul style="list-style-type: none">  Aerial Photography 	<p>The soil surveys that comprise your AOI were mapped at 1:20,000.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Warning: Soil Map may not be valid at this scale.</p> <p>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.</p> </div> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>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.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: San Juan Area, Puerto Rico Survey Area Data: Version 18, Sep 10, 2024</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022</p> <p>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.</p>
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Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CrE2	Colinas clay loam, 20 to 40 percent slopes	Not prime farmland	3.0	51.9%
CuE	Consumo clay, 20 to 40 percent slopes	Farmland of statewide importance	2.6	44.2%
SoF	Soller clay loam, 40 to 60 percent slopes	Not prime farmland	0.2	3.9%
Totals for Area of Interest			5.8	100.0%

Description

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

Rating Options

Aggregation Method: No Aggregation Necessary

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 majority of soil attributes are associated with a component of a map unit, and such an attribute has to be aggregated to the map unit level before a thematic map can be rendered. Map units, however, also have their own attributes. An attribute of a map unit does not have to be aggregated in order to render a corresponding thematic map. Therefore, the "aggregation method" for any attribute of a map unit is referred to as "No Aggregation Necessary".

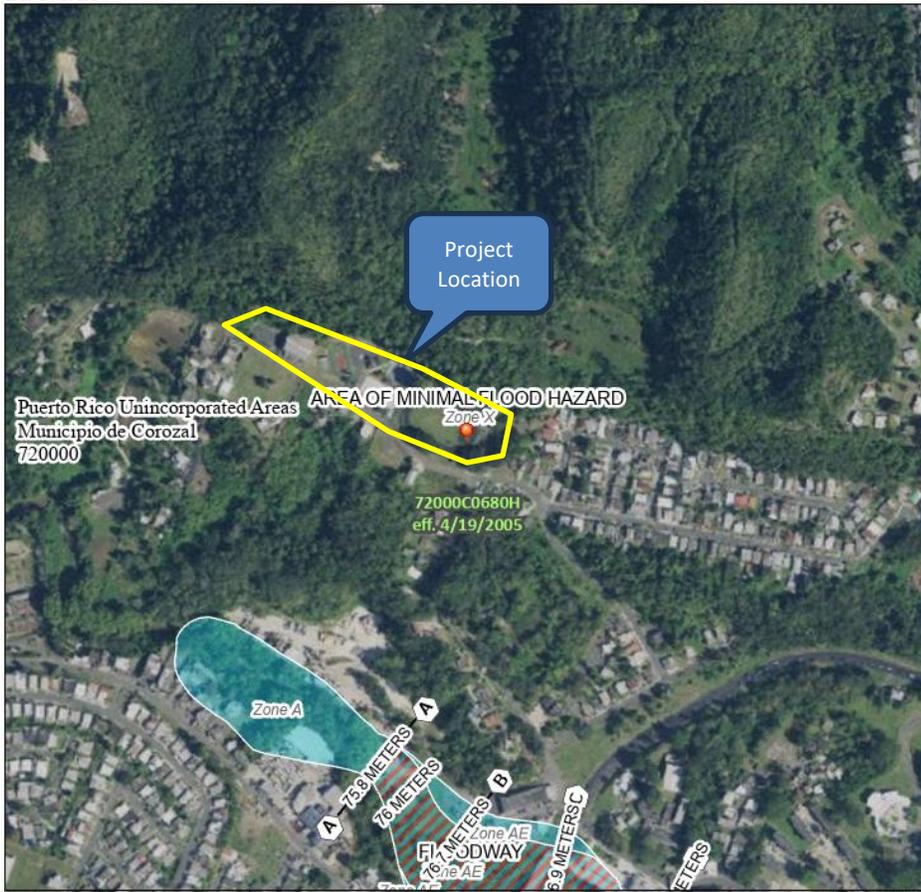
Tie-break Rule: Lower

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.

National Flood Hazard Layer FIRMette



66°19'41"W 18°21'13"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, X, AE</i>
		With BFE or Depth <i>Zone AE, AD, AX, 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>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		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)
		Limit of Study
		Profile Baseline
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 1/15/2025 at 3:00 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.

Attachment 10A: Floodplain Management FIRM

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

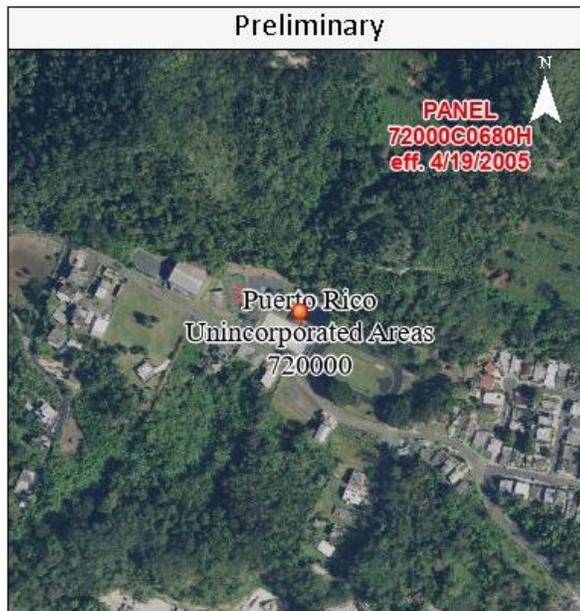
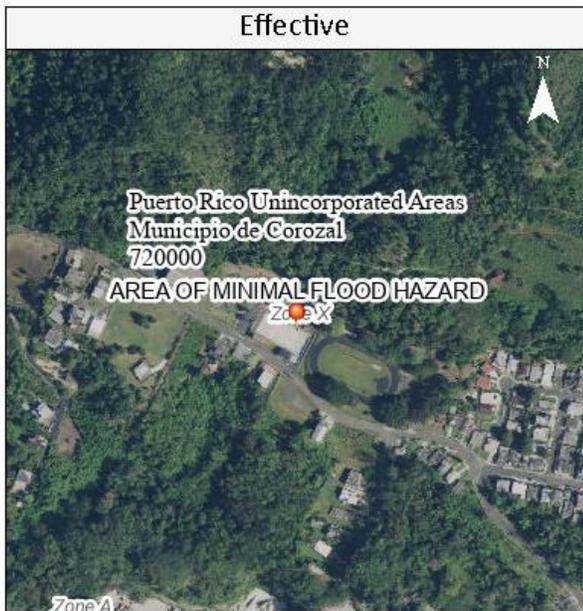
Source: FEMA Flood Map Service Center

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

Prepared by: Applied Engineering Group

Comparison of Flood Hazard

Effective & Preliminary Flood Hazards



Effective	
PCI Longitude/Latitude	18.348, -66.3236
Effective FIRM Panel	72000C0680H
Effective Date	4/19/2005
Flood Zone	X
Static BFE*	Not Available
Flood Depth	Not Available
Vertical Datum	Not Available

Preliminary	
PCI Longitude/Latitude	18.348, -66.3236
Preliminary FIRM Panel	72000C0680H
Preliminary Issue Date	11/16/2018
Flood Zone	Not Available
Estimated Static BFE*	Not Available
Estimated Flood Depth	Not Available
Vertical Datum	Not Available

* A Base Flood Elevation is the expected elevation of flood water during the 1% annual chance storm event. Structures below the estimated water surface elevation may experience flooding during a base flood event.

Hazard Level **Flood Hazard Zone**

High Flood Hazard AE, A, AH, AO, VE and V Zones. Properties in these flood zones have a 1% chance of flooding each year. This represents a 26% chance of flooding over the life of a 30-year mortgage.

Moderate Flood Hazard Shaded Zone X. Properties in the moderate flood risk areas also have a chance of flooding from storm events that have a less than 1% chance of occurring each year. Moderate flood risk indicates an area that may be provided flood risk reduction due to a flood control system or an area that is prone to flooding during a 0.2% annual chance storm event. These areas may have been indicated as areas of shallow flooding by your community.

Low Flood Hazard Unshaded Zone X. Properties on higher ground and away from local flooding sources have a reduced flood risk when compared to the Moderate and High Flood Risk categories. Structures in these areas may be affected by larger storm events, in excess of the 0.2% annual chance storm event.

Insurance Note: High Risk Areas are called 'Special Flood Hazard Areas' and flood insurance is mandatory for federally backed mortgage holders. Properties in Moderate and Low Flood Risk areas may purchase flood insurance at a lower-cost rate, known as Preferred Risk Policies. See your local insurance agent or visit <https://www.fema.gov/national-flood-insurance-program> for more information.

Disclaimer: This report is for informational purposes only and is not authorized for official use. The positional accuracy may be compromised in some areas. Please contact your local floodplain administrator for more information or go to www.fema.gov to view an official copy of the Flood Insurance Rate Maps.

Service Layer Credits: USGS, USDA

1/15/2025 8:48 PM

Attachment 10B: Floodplain Management PFIRM

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: FEMA Flood Map Changes Viewer

Website: [https://hazards-](https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=5852ea902db44e55bfce395799315f9c)

[fema.maps.arcgis.com/apps/webappviewer/index.html?id=5852ea902db44e55bfce395799315f9c](https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=5852ea902db44e55bfce395799315f9c)

Prepared by: Applied Engineering Group



Attachment 10C: Floodplain Management ABFE

Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883).

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: FEMA Puerto Rico Advisory Base Flood Elevations (ABFE's)

Website: <https://gis-r2-fema.hub.arcgis.com/apps/31dfa15671944086b54b55bfc03344d7/explore>

Prepared by: Applied Engineering Group

Attachment 11
SHPO Consultation
Package



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Friday, January 10, 2025

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-12-16-24-07 PR-CRP-000883 (Corozal) - Mejoras a Facilidades de Polideportivo de Corozal

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.

Our records support your finding of no historic properties affected within the project's area of potential effects.

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



Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935



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

12/16/2024

Carlos A. Rubio Cancela
State Historic Preservation Officer
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

**Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program
Section 106 NHPA Effect Determination Submittal for PR-CRP-000883, Mejoras
a Facilidades de Polideportivo de Corozal Project, Corozal, Puerto Rico – No
Historic Properties Affected**

Dear Architect Rubio Cancela,

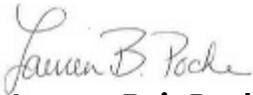
On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting 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 Mejoras a Facilidades de Polideportivo de Corozal Project. The Municipality of Corozal proposes the revitalization of the sports center located in the suburban area of the municipality. The repair work at the sports center includes demolition of the existing handball wall for the construction of a new volleyball court, renovation of the tennis court, creation of green bleachers, structural steel roof and walls for the basketball court, renovation of the pool facilities, replacement of the existing playgrounds, and redesign of the main entrance. The project also includes new fencing, sidewalks, lighting, and drainage. The full scope of the project is described in the submitted

documentation, which includes mapping, photographs, and the 90% design development plans.

Based on the documentation provided, the Program requests a concurrence with a determination that **no historic properties affected** 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,



Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager
LBP/KPS

Attachments

PR-CRP-000883

**Mejoras a Facilidades de Polideportivo de
Corozal Project**

Corozal, Puerto Rico

Section 106 Effect Determination Form

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

Project Location: Pueblo Ward, Ramirez Street Corozal, PR 00883	
Project Coordinates: 18.347432; -66.322768	
TPID (Cadaster Number): 110-000-010-55-000; 110-000-010-56-000	
Type of Undertaking: <input checked="" type="checkbox"/> Substantial Repair/Improvements <input type="checkbox"/> New Construction	
Construction Date (AH est.): 1994.	Property Size (acres): 5.37Acres

SOI-Qualified Architect/Architectural Historian: Architect Carlos Ferrán
Date Reviewed: (September), November, 2024
SOI-Qualified Archaeologist: Archeologist Norma Medina- Carrillo
Date Reviewed: (September), November, 2024

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties. 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)

As established and written by the Proponent: The Sports Center is in an area designated under the General Endowment classification (D-G) and the land classification as Urban Land (SU). However, part of the Municipality of Corozal is located within the karst zone and for this reason the Sports Center has an APE-ZC (Special Planning Area Karst Zone) as an overlapping district. However, according to the Soil Qualification map of the Territorial Planning Plan of the Municipality of Corozal (document adopted at a Board meeting on December 17, 2020, JP) the project is located at a substantial distance from the 50m buffer strip and at a significant distance from the Carso Restricted Special Planning Area. It is expected that the work proposed will not significantly impact on the karst. (Figure 01).

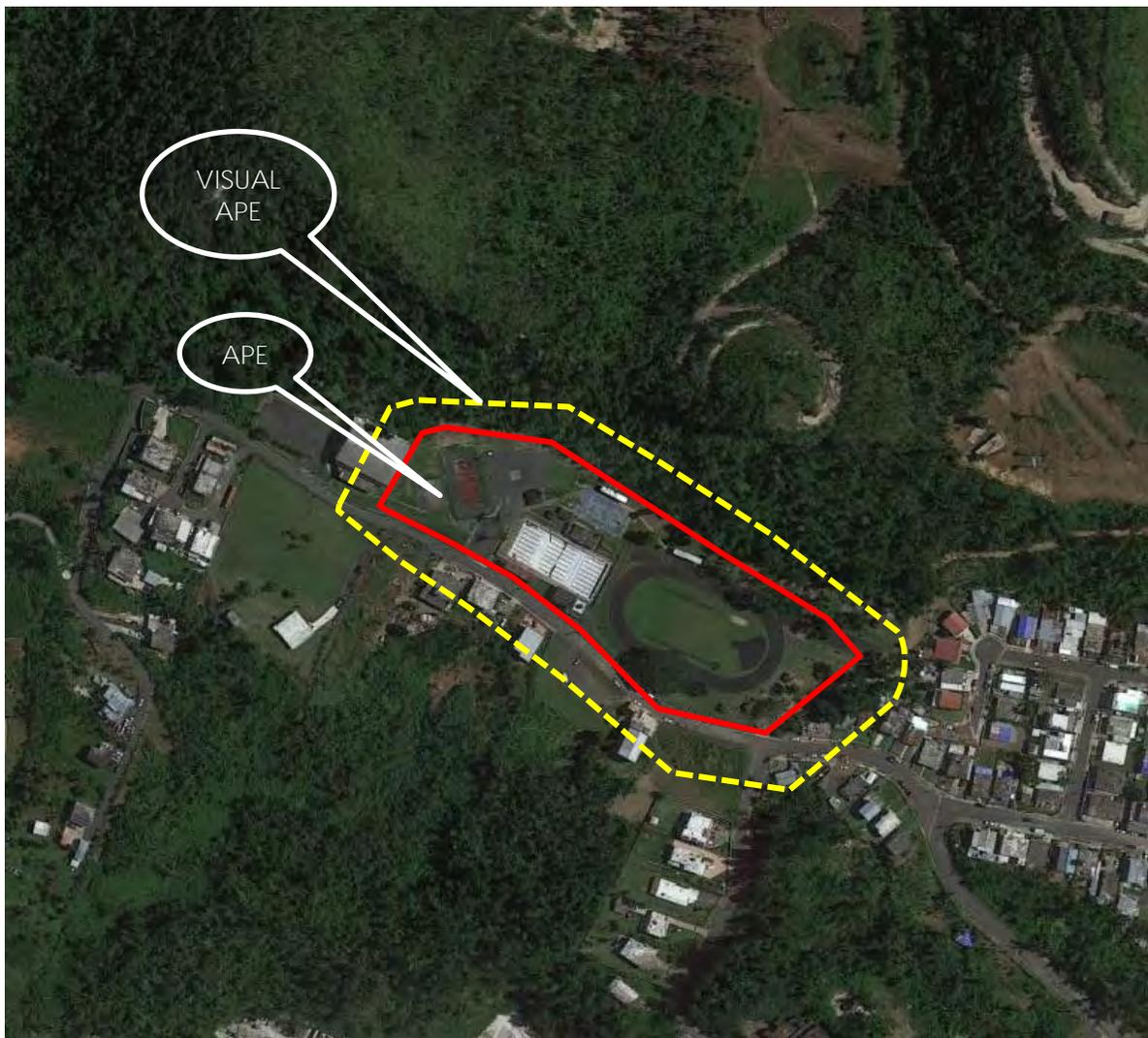
PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

The municipality of Corozal is recognized as the capital of volleyball, having seventy-three (73) sports facilities. For this reason, this project focuses on the revitalization of the sports center located in the suburban area of the municipality, composed of a swimming pool, gym facilities, running track and a walking track, a passive park, tennis, and basketball courts. (Figure 02).

Location Aerial Map with APE identified.

Figure 1.

Coordinates: 18.347432; -66.322768



Source: Google Earth, 2023

100 FEET
 Scale: 300 FEET

↑
 NORTH

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CRP)
Section 106 NHPA Effect Determination

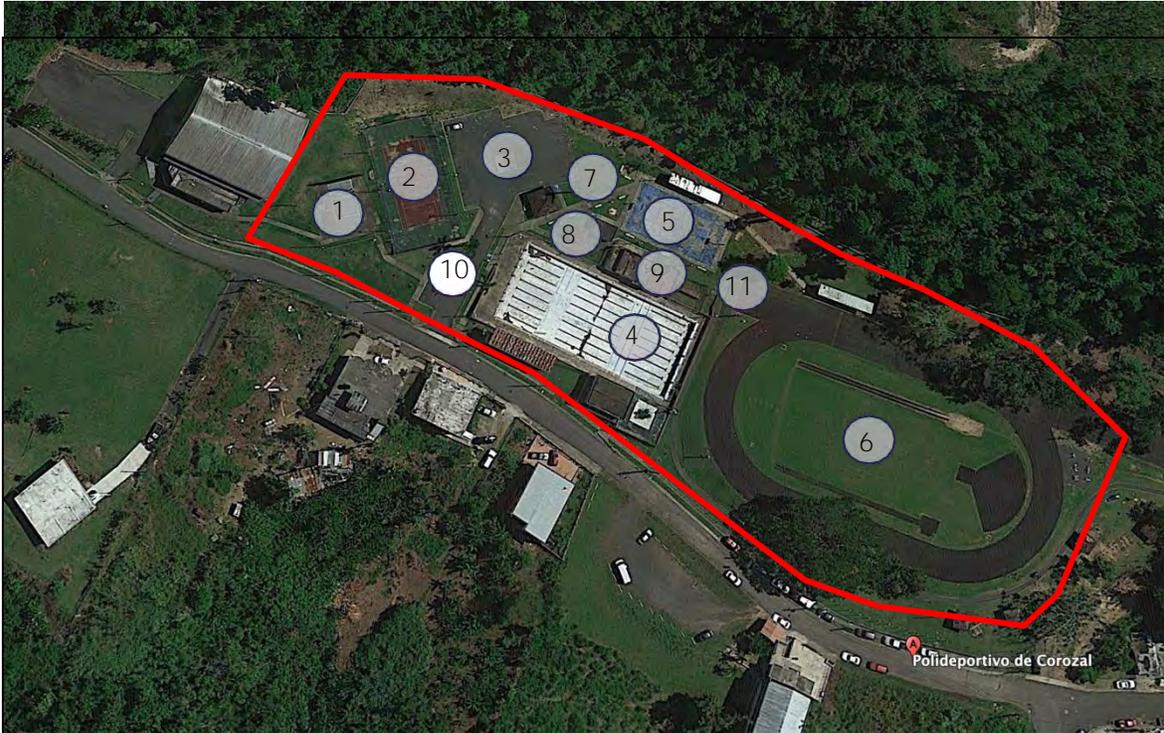


Subrecipient: Municipio de Corozal, Puerto Rico

Project Name: Mejoras a Facilidades de Polideportivo de Corozal

Program Number: PR-CRP-000883

Polideportivo Park Areas.
Figure 2.
Coordinates: 18.347432; -66.322768



LEGEND

1. "Racket ball" wall
2. Tennis Court
3. Parking Area
4. Pool Area
5. Basketball Court
6. Athletic field
7. "Playgrounds"
8. Gazebos (8.1-Gazebo and Kiosk)
9. Bathrooms
10. Main Entrance
11. Ramp (ADA Compliance)



Scale: 300 FEET



NORTH

Source: Google Earth, 2023

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

The project includes improvements to make the Sports Center more resistant, functional, accessible, and valuable for visitors. The proposed changes are detailed below.

The repair work at the Sports Center includes improvements to the following sports fields:

- Demolition of the existing handball wall for the construction of a new volleyball court with the preparation of green bleachers using the natural land contour (Element 1). To accommodate the new volleyball court, soil removal of around 5,297.2 cubic feet will be required and excavation of around 36" depth to remove wall footing. The excavation and ground disturbance will be not less than 12" but not deeper than 24" for the new concrete slab and surrounding fence will be required. Impacted area for the court is of around 5,000 ft², (Court Length: 82 Feet and Width: 54 Feet), including the area already impacted to construct the existing handball wall to be demolished and the additional space required to accommodate the new volleyball court. The existing natural grass area will be cut into levels to create green bleachers. For the bleachers, precast concrete tiles will be installed for sitting.
- Renovation of the tennis court (Element 2).
- Surface preparation, paint application, fencing, lighting improvements and preparation of stands using the natural topography of the properties.

Basketball Court (Element 5).

- Installation of a structural steel roof and walls for the basketball court
- Repair of the electrical system.
- Drainage system for stormwater management.
- Demolition and construction of new bleachers, to extend court ceiling structure to the park limit wall.
- Four light poles will be removed, and the existing aluminum roof will be demolished. Page S-2 shows the building plans with a new retaining wall-estimated max depth is 9'.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

- For this construction, the existing concrete slab will be demolished to provide space for the new court. The new court will require an area of 8,100 ft² (Length: 112 Feet, Width: 80 Feet) with an excavation and ground disturbance not less than 12" but not deeper than 36". The existing natural grass area at the back of the bleachers will be cut to expand the court and the construction of the new bleachers zone.

Pool facilities (Element 4)

- Renovation of the pool with its facilities, including its mechanical and electrical systems, lighting, equipment, bathrooms, office, electrical room, and existing sitting area. Although some demolition will be required, it is expected to be the minimum.
- Most of the existing facilities structures will remain, but trenches will be needed to accommodate piping and conduits. This construction will be performed in the existing pool facilities. Trenches required are expected to be at the concrete level or in the areas previously impacted during the original construction. Excavation, trenches and ground disturbances may vary in size from 12" to 24". New finishing of floor to be installed as part of this remodeling.

Access and sidewalks facilities

- The sidewalk crossing between the basketball court and pool will be extended to provide access to the upper part of the park (athletic field and playgrounds). This will require removal of soil of no more than 12" deep in an extension of 60 linear feet.
- Extension to the path, expanding sidewalk and creating accessibility ramp in compliance with ADA (section marked in red in figure 2). Soil removal will be of around 100 m³.

Landscaping and playgrounds

- Replacement of the existing playground (Element 7) and the installation of a new playground (two areas within the Sports Center).
- Both playgrounds, for their support, require a selective excavation of no more than 18" wide and not more than 36" deep to secure structures in place.
- Pruning and/or replacing trees if necessary. The anticipated depth of the excavations for new trees will be no more than 18" wide and then 36" deep.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

Lightning

- Replacement and improvements to existing lighting (aluminum poles with LED lamps).

Main Entrance to the Sports Complex.

- Redesign of the main entrance with an architectural wall (Height: 4 Feet, and 15 feet Long, landscaping, and new gate. The new architectural wall will require excavation for footing construction of 8" by 14" of depth and an excavation of 14" by 36" for fence.

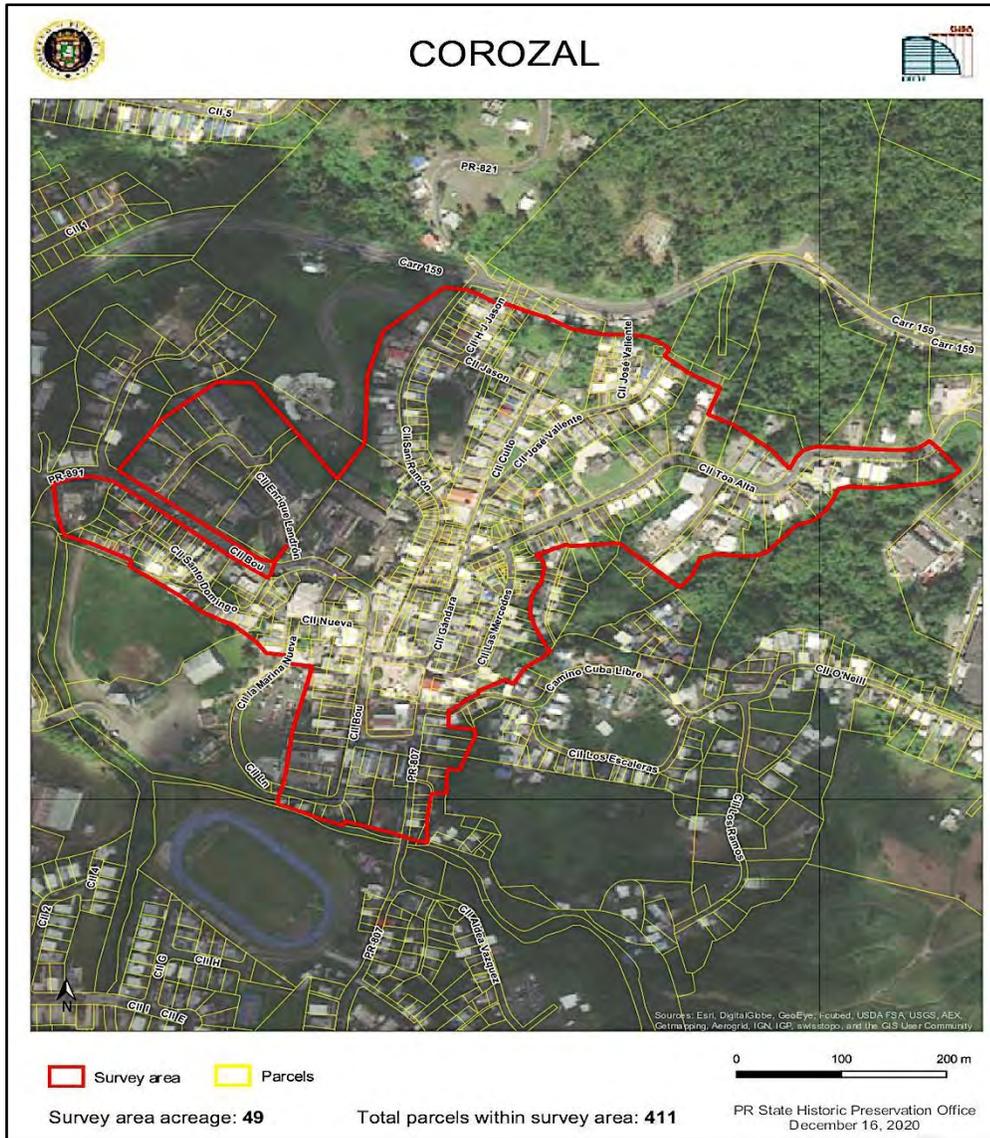
While this written report is developed, the Construction Documents (Plans) are 90% developed.

Subrecipient: Municipio de Corozal, Puerto Rico

Project Name: Mejoras a Facilidades de Polideportivo de Corozal

Program Number: PR-CRP-000883

Traditional Urban Center Delimitation Map.
Figure 3.



Sources:
Website: <https://oech.pr.gov/>
Author: Applied Engineering Group, PSC

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CRP)
Section 106 NHPA Effect Determination



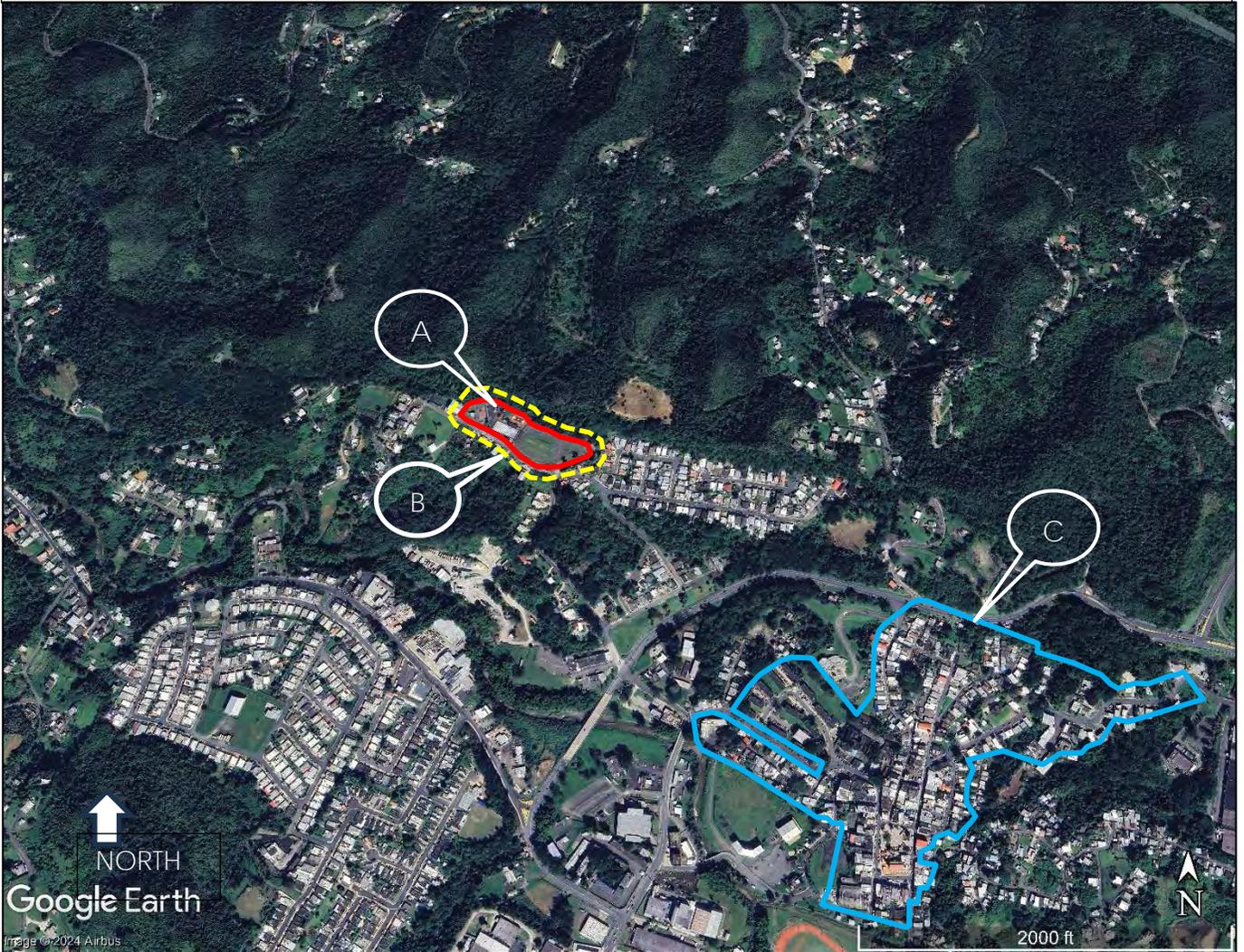
Subrecipient: Municipio de Corozal, Puerto Rico

Project Name: Mejoras a Facilidades de Polideportivo de Corozal

Program Number: PR-CRP-000883

Traditional Urban Center Delimitation of Corozal, Puerto Rico.
Figure 4.

Coordinates: 18.347432; -66.322768



GRAPHIC SCALE: 2000 FT

LEGEND

- A. APE.
 - B. Visual APE
 - C. Traditional Urban Center Delimitation of Corozal, Puerto Rico.
- Note: Traditional Urban Center of Corozal, Puerto Rico is approximately 3,566 Linear Feet (0.68 Miles) from the APE Center, which is outside the 1/2 mile radius.

Source: Google Earth, 2024.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
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Program Number: PR-CRP-000883	

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 is the complete parcel area is 995 Linear Feet in Length and Width is 235 Linear Feet (5.37 Acres), where the Polideportivo de Corozal project is located, and the Visual APE is the viewshed of the proposed project which is 1,164 Linear Feet in Length and Width is 330 Linear Feet, equivalent to 8.82 Acres. (Figure 4).

Historic Context/Cultural Setting

The municipality of Corozal was already established in 1795 by Joaquin Marrero and Jose de Rivera Ortiz. During the early colonization of the island, the region of Corozal River was part of the lands oppressed by gold mining using indigenous labor under the systems of indigenous slavery, and the indigenous encomienda the Tainos were forced to work for the Spaniards. About the gold production of the Corozal region, the following information is noted.

“Four of them (the rivers) irrigate the municipality of Corozal: The Cibuco and its three tributaries: Corozal, Mavilla, and Morovis. Other tributaries of the Cibuco are Negros, Dos Bocas, Indio, Unibón and Las Carreras. Of all of them, the one that produced the most gold was the Mavilla River.”¹

In the eighteenth century, this territory was known as “El sitio del Corozal”.² The “El sitio del Corozal”, it originally belonged to the territory of the municipality of Toa Alta.³ The town became an official municipal entity in 1804. Its name is derived from the word corozo, the common name for the palm native to Puerto Rico and the Virgin Islands that bears the same name (*Acrocomia media*). In 1814 the construction of the first cemetery was completed. In 1853, Corozal was organized into the following neighborhoods: Pueblo

¹ Municipio de Corozal, <https://enciclopediapr.org/content/municipio-de-corozal/>

² Negrón Hernández, Luis R., Corozal: the early years 1795-1803, <https://www.preb.com/apuntes/corozale.htm>

³ Idem.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
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Program Number: PR-CRP-000883	

y Contornos, Habras, Sibuco, Dos Bocas, Padilla, Cuchilla, Magüeyes, Negros, Palmarejo, Maná and Palos Blancos.⁴

In 1853, the following data about the municipality was provided in the Report of the Mayor of Corozal Juan de la Cruz Coca.

- **Ejidos:** There is only half “cuerda”, because of the four and a half “cuerda” granted and bought for the population, only three-three-quarters of them occupy three “cuerdas”.
- **Public Buildings:** A masonry church dedicated to the Sagrada Familia.
- A House called the King's House, for the Mayor's Office, secretary, guard corps, and prison. A house made of wood and yaguas that serves as a butcher's shop surrounded by masonry.
- There are 10 wooden houses with tiled roofs in the village, 22 with thatched roofs, and 31 huts. In the countryside, there are 5 wooden roofs made of tejamaní, 248 with thatched roofs, and 472 bohios. There are no stone houses, either in the village or in the countryside.
- **Street:** There are four streets whose names and addresses are Oriente Street running from East to West, Del Norte Street, from North to South, Del Poniente Street, from East to West, and Sur Street, from South to North.
- **Squares:** There is one in the center of the town, it bears the same name as the town and has a location of 1,369 square yards. ⁵ (Figure 05).

By 1853, there were 28 sugar mills, numerous coffee farms, and minor fruit ranches. For a short time, gold mining activities also were made.⁶ During the nineteenth century, the main economic activity of Corozal was the production of sugar cane. In addition to sugarcane, coffee farms were established. By the end of the 19th century, Corozal had 12 coffee-producing farms. The production of plantains and tobacco complemented the agricultural production of the municipality.

In 1888, the first street lighting was installed using rustic poles, topped with gas lanterns. In 1895, the first telegraph station was opened, three years later, in 1898, the Spanish government built the stone bridge of Mavillas, which connects the Municipality of

⁴ Territorial Plan of Corozal,

https://gis.jp.pr.gov/Externo_Econ/PT%20Corozal/MEMORIAL%20BORRADOR_15nov2016_1b.pdf

⁵ Sepúlveda Rivera, Aníbal, Puerto Rico Urbano, Vol. 2, San Juan: CARIMAR, 2004. Page 84.

⁶ Municipio de Corozal, <https://enciclopediapr.org/content/municipio-de-corozal/>

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Corozal, Puerto Rico	
Project Name: Mejoras a Facilidades de Polideportivo de Corozal	
Program Number: PR-CRP-000883	

Toa Alta and the Municipality of Corozal.⁷ On the other hand, in 1893 the Municipality was hit by Hurricane San Roque, and in 1899 by Hurricane San Ciriaco. On October 4, 1898, at 3:00 pm. U.S. Army troops entered through the Palmarejo neighborhood and occupied the town of Corozal.⁸

Plan of the town of Corozal, 1866. Juan Rovira y Andreu.⁹
 Figure 5.



⁷ Territorial Plan of Corozal,
https://gis.jp.pr.gov/Externo_Econ/PT%20Corozal/MEMORIAL%20BORRADOR_15nov2016_1b.pdf

⁸ Villar Rocés, Mario, Los Municipios de Puerto Rico, La Gran Enciclopedia de Puerto Rico, Vol.13, Madrid: Forma Gráfica, S.A.1977. Page. 114.

⁹ Sepúlveda Rivera, Aníbal, Puerto Rico Urbano, Vol. 2, San Juan: CARIMAR, 2004. Page 85.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Municipio de Corozal, Puerto Rico	
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In the historical, geographical, and statistical study carried out by Manuel and Ubeda Delgado in 1878, the following aspects of the municipality of Corozal are noted.

- In the town there are three mixed shops and six grocery stores.
- There are five schools in the territory: one complete for boys and one for girls in the town.
- The jurisdiction is inhabited by 8,867 souls.
- Population: 79 houses, 42 ranches, and huts with 126 families.
- The village has a square, two streets, and a crossing.
- The public buildings are the Masonry church, a masonry Town Hall (private property), a cemetery, a King's House, a wooden butcher's shop, and the Civil Guard barracks.
- It connects this village with Toa-Baja by a local cart road that passes along the coastal road (Figure 06).

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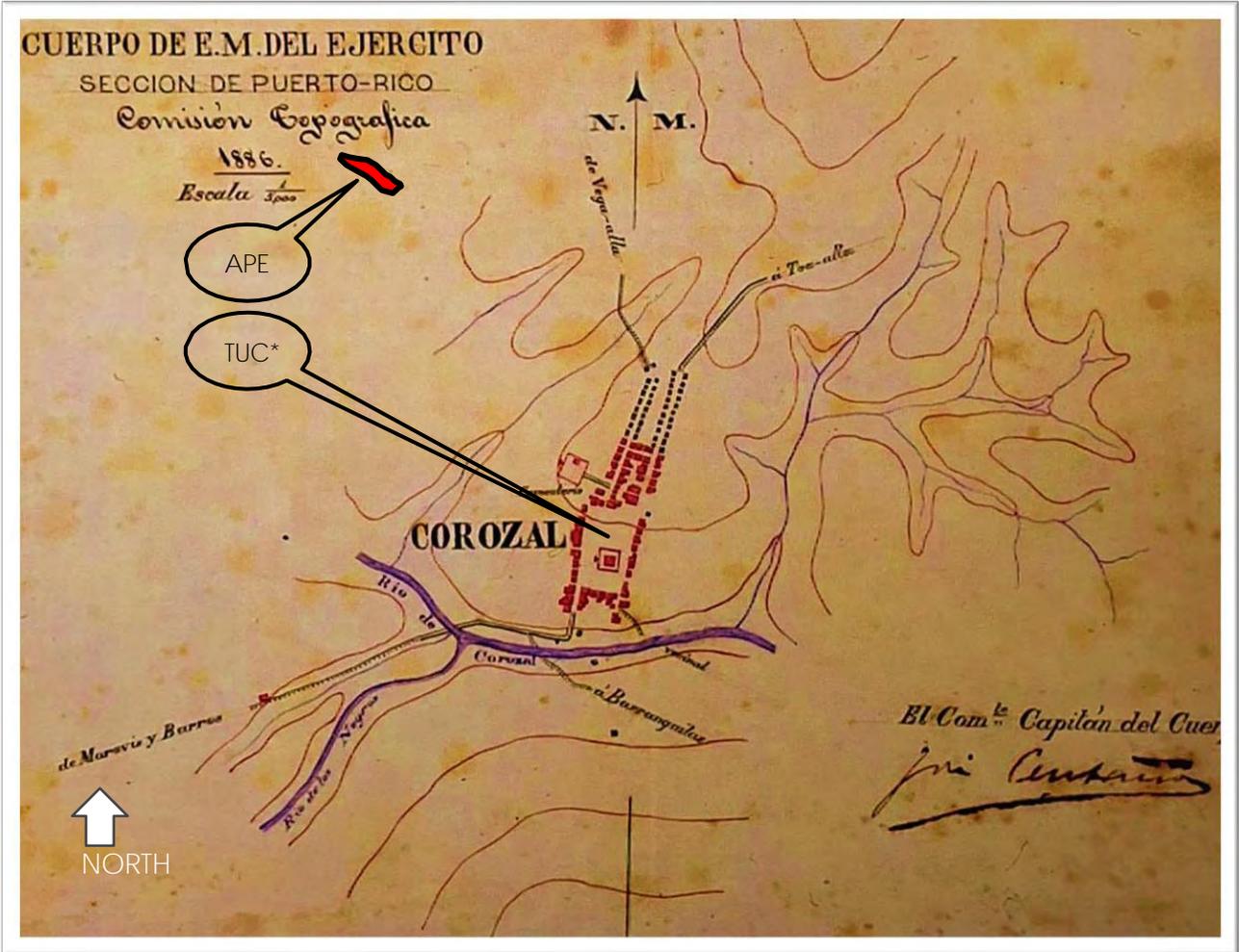


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Corozal Map, 1886. Corps of Military Engineers.¹⁰
Figure 6.



*NOTE:
TUC: TRADITIONAL URBAN CENTER

¹⁰ Sepúlveda Rivera, Anibal, Puerto Rico Urbano, Vol. 3, San Juan: CARIMAR, 2004. Page 164.

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In 1908, U.S.A. Army officer, Lieutenant William H. Armstrong visited Corozal. Some of his observations were as follows:

- Corozal is a thriving town, but very small.
- The town has no water system.
- The town has a telephone service.
- The only substantial buildings in the town are the Catholic and Protestant churches.

“In 1902 the telephone service began to operate and in 1906 the first aqueduct was inaugurated. In 1909, the Abraham Lincoln School Building was opened. One of the most important events occurred in 1914 when a fire broke out that destroyed about 50 properties in the urban center of Corozal.¹¹ The first movie theater opened in 1915. In 1918 the road and bridge to Morovis were inaugurated. In 1921 electric lighting was installed in the streets and in 1922 the construction of an electric power plant began. In 1936, the Town Hall was inaugurated in the same place where the previous one was located. In 1940 sewers were installed in the streets. In 1950 the Manuel Bou Gali High School was inaugurated.¹²

In Corozal, tobacco cultivation was an important economic activity during the 1920s and 1930s. During the first half of the 20th century, Corozal had several factories for tobacco destemming. Corozal also had factories for canning pineapples and papayas. During 1948 the urban area of Corozal was reorganized by the Puerto Rico Planning Board. The urban area was expanded becoming Barrio Rural Pueblo.¹³ Today, agricultural activity still takes place in Corozal, although on a smaller scale. In recent times, the municipality also has factories producing garments, foodstuffs, and machinery.¹⁴

¹¹ Territorial Plan of Corozal, https://gis.jp.pr.gov/Externo_Econ/PT%20Corozal/MEMORIAL%20BORRADOR_15nov2016_1b.pdf

¹² Idem.

¹³ Idem.

¹⁴ Municipio de Corozal, <https://enciclopediapr.org/content/municipio-de-corozal/>

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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).

According to the archaeological summary of the municipality of Corozal prepared by PR-SHPO, eight (8) pre-Columbian archaeological sites have been identified in Corozal spanning all cultural periods: Preceramic (Archaic 4000 BC – 200 AD); Agro-potter I (Saladoid 250 BC – 600 AD); Agro-potter II (Ostionoid 600 AD -1,200 AD) and Agro-potter III (Taíno/Chicoide 1,200 AD – 1,500 AD). Some of these sites were first identified as bateyes by archaeologist Samuel K. Lothrop in the 1930s and later mentioned by Irving Rose in 1952 but have not currently been located. Another unconfirmed site is the Padilla ward site where the presence of axes, a cemí, and indigenous pottery were reported. Most of the pre-Columbian documented archaeological sites of Corozal are in the Cibuco and Abra ward.

The most studied are the petroglyphs of Cibuco. It belongs to the cultural association Agro-Alfarero III (Taíno-Chicoide) 1,200 AD – 1,500 AD). There are 24 documented petroglyphs of which eight (8) are anthropomorphic, 4 zoomorphic, and 12 present other symbols. During the years 1996 and 1997, the archaeologist Marisol Rodriguez Miranda conducted excavations in the site and found a human burial, as well as fragments of pottery and lithics associated with the Taino culture.

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Table 1: Archaeological pre-Hispanic resources near Project APE.

Identification code	Common name	Type of Resource	NRHP Status	Distance to Project APE
PR-SHPO/ CZ0100001 Cibuco Ward	Cibuco Petroglyphs	Taino Petroglyphs Agro-pottery III 1200DC-1500DC	NRHP Eligible	1.2119 miles West of the APE.
PR-SHPO/ CZ0100002 Cibuco Ward	La Cueva	Cedrosan Saladoid Residuary	NRHP Eligible	0.76690 miles Northwest of the APE.
PR-SHPO/ CZ0100003 Cibuco Ward	Los Quinteros Cave	It has not yet been studied	No data	1.0724 miles Northwest of the APE

Table 2: Archaeological Historic resources near Project APE.

Name	Common name	Type of Resource	NRHP Status	Distance to Project APE
PR-SHPO/CZ0200004 Cibuco Ward	Hacienda Aurora Casona	Twenty century (1936) Hacienda house	NRHP Eligible	1.1154 miles West of project APE.

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Corozal Prehistoric cultural resources near the Project APE:

The half-mile analysis carried out around the APE does not reveal any pre-Columbian cultural resources. These resources that are located about a mile away in a northwesterly direction are mentioned below as reference to the types of pre-Columbian resources existing in this region of Corozal.

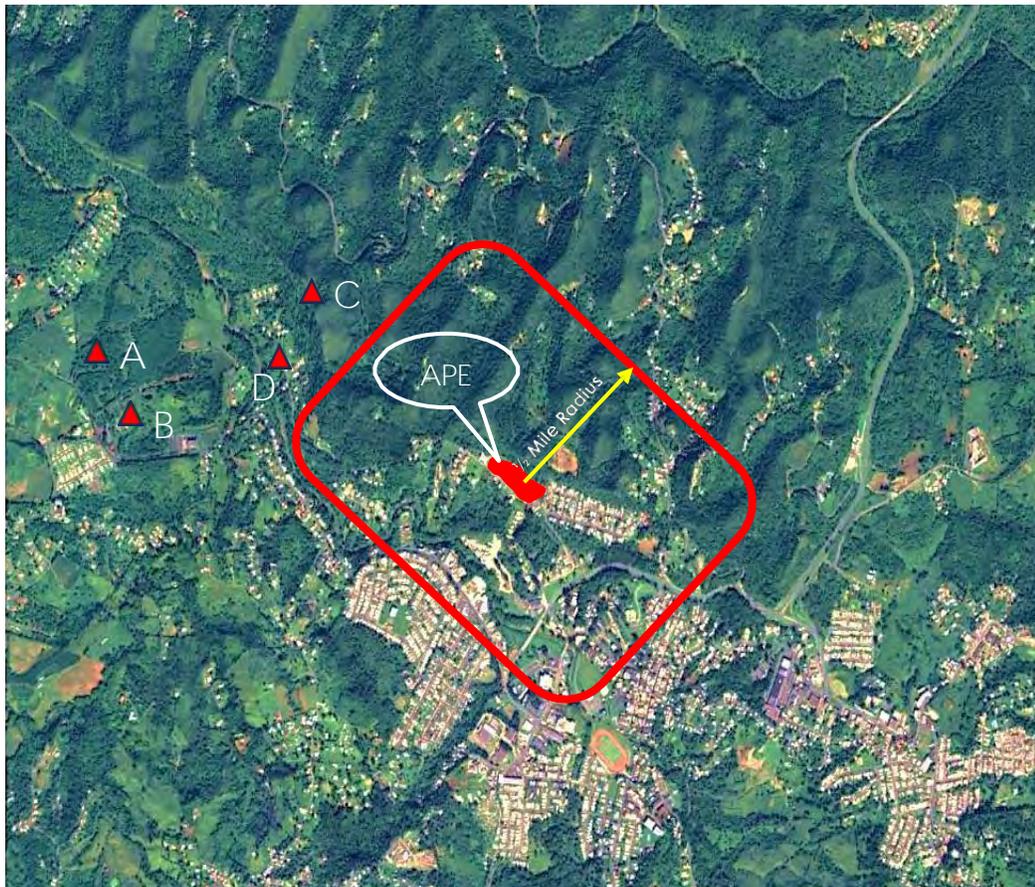
1. CZ0100001 (Los Petroglifos del Cibuco): Located 1.2119 miles West of the APE. In the Cibuco Ward is a mural of petroglyphs on limestone. It belongs to the cultural association Agro-pottery III (Taino/Chicoide) 1200DC-1500DC. It comprises a total of 24 petroglyphs of which 8 are anthropomorphic, 4 zoomorphic, and 12 with other representations. It was first reported by archaeologist Samuel K. Lothrop in the 1930s and then mentioned by Irving Rouse in 1952. In 1979 the site was visited by the archaeologist Ovidio Dávila. In 1982 it was revisited by Rita Aparicio as part of an inventory of the I.C.P.; An inventory sheet is filled out and photographs are taken of the petroglyphs. Now the rock art of El Cibuco is reported to be in good condition, but it is mentioned that some have been marked with chalk and other materials. Archaeologist Pedro Alvarado Sayaz photographs them in his 1995 inventory. During the years 1996 and 1997, archaeologist Marisol Rodríguez Miranda conducted excavations in the area as part of the Cibuco Tourist and Historical Center project. As a result of Rodríguez's Investigations, a human burial was found, as well as fragments of pottery and lithics associated with it. The materials correspond to the Taino period and the pottery was identified as belonging to the Capá ceramic style.
2. PR-SHPO/ CZ0100002, La Cueva Sector: Located 0.76690 miles Northwest of the APE. Open-pit site, unexcavated. Localized on agricultural land, plowed and sown (1982). It is described as a pre-Columbian "residuary" containing lithic and cedrosan saladoid pottery.
3. PR-SHPO/ CZ0100003 (Los Quintero Cave): Located 1.0724 miles Northwest of the APE. This cave of approximately 500 meters crosses from the Cibuco neighborhood to the Abras neighborhood. Although it has not yet been studied, it has been visited by archaeologists such as Ovidio Dávila.

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Localization of Archaeological Sites near the APE.
Figure 7. Analysis of suburban areas ½ mile radius.
Coordinates: 18.347432; -66.322768. Not to Scale
Source: Google 2023, Aerial Photo.



LEGEND (PREVIOUS REGISTERED ARCHEOLOGICAL SITES)



- A.** CZ0100001: Petroglyphs del Cibuco, 1.2119 miles West from the APE.
- B.** CZ0200004: Casona Hacienda Aurora, 1.1154 miles West of the project APE.
- C.** CZ0100003: Los Quinteros Cave, 1.0724 miles Northwest from the APE.
- D.** CZ0100002: La Cueva Site, 0.76690 miles Northwest from the APE.

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Historical Archaeological Resources Analysis

The Municipality of Corozal is bordered to the north by the Special Protected Zone of the Karst of Puerto Rico. The project under evaluation is located on the municipality's border with the northern Karst Zone of Puerto Rico. The Karst Zone is an area protected by Law 292 of 1999, known as the "Law for the Protection and Conservation of the Karst Physiography of Puerto Rico", which states that it is the public policy of the Commonwealth of Puerto Rico to protect, conserve and manage the karst physiography of Puerto Rico. The proposed project was constructed before the approval of the Law.

After a thorough search in the archives of PR-SHPO, and the Council of Terrestrial Archaeology at the Institute of Puerto Rican Culture, it was not possible to locate any archaeological report that corresponds to the "Corozal Sports Center". This project was never presented to the agencies ICP and PRSHPO for comments. It was built in the early 1990s. So, we deduce that this project was built without archaeological studies. The nearest documented prehistoric archaeological resources are located approximately one mile from the project to the west of the APE. These Archaeological resources are mainly located in limestone caves (Figure 07).

Table 3: Corozal Archaeological Studies near the project APE area.

Identification and Code	Distance to APE	Phase and Year	Archaeologist	Results
1. San Jose Apartments ICP/CAT-CZ-98-03-05	0.356 Miles, (574 Mts) to the Southeast of APE	Phase IA-IB, 1998	Carlos M. Ayes	Negative
2. Residential Developments ICP/CAT-CZ-96-02-05	0.677 Miles, (1,091 Mts) to the Southeast of APE	Phase IA-IB, 1996	Juan González Colón	Negative
3. Colinas de Corozal Residential Construction ICP/CAT-CZ-89-01-02	0.516 Miles, (831 Mts) to the South of APE	Phase IA-IB, 1989	Iván F. Mendez Bonilla	Negative

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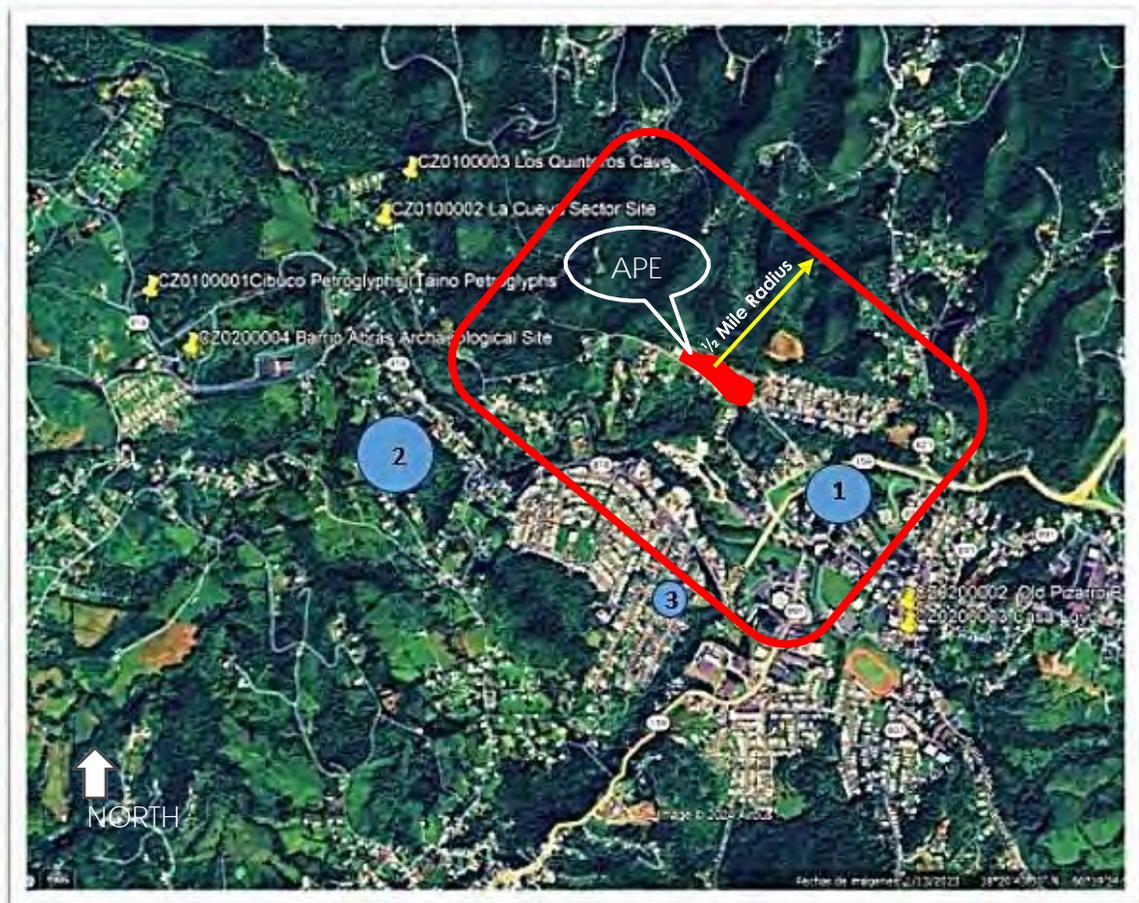


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Localization of Archaeological Studies in the periphery of the APE.
Figure 8. Coordinates: 18.347432; -66.322768.
Not to Scale.



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Analysis of Historic Quadrangles and Photographs

From the analysis of the historical topographic quadrangles, it is not possible to determine the period in which the property where the APE is located was cut to allow the construction of the Corozal Sports Center project. However, the contour lines on the north side of the plot, where the mogote is located, identify an elevation of 150 meters above sea level, while on the southern side of the plot, the contour lines are 140 meters above sea level. The natural slope of the mogote inclines 10 meters. Therefore, to open the leveled area for the construction of the sports center, the land was cut and leveled. (Figures 10-15).

On the other hand, the analysis of the aerial photographs shows it is possible to establish that the history of the land that corresponds to the APE was agricultural. Aerial photographs from 1931, 1937, and 1964 show established crops in this area.

From the information offered by the Municipality of Corozal we know that the farm was acquired by Corozal Construction Corporation in 1970. The farm was segregated into several parcels for residential construction purposes. In 1984, the Municipality of Corozal bought these parcels where the APE is located. At some point in the beginning of the 1990's, the construction of the sport facilities was initiated. (Appendix A).

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Los Quintero Cave.²⁶
 Figure 9.



²⁴ Plan Territorial de Corozal

https://gis.jp.pr.gov/Externo_Econ/PT%20Corozal/MEMORIAL%20BORRADOR_15nov2016_1b.pdf

²⁵ PR-SHPO Digital Files.

²⁶ [https://www.google.com/maps/place/Cueva+de+los+Quinteros/@18.343314,-66.3328076,15z/data=!4m14!1m7!3m6!1s0x8c033d71da42e283:0xd08fb6a6306b977b!2sReserva+Natural+Cibucol!8m2!3d18.3507988!4d-](https://www.google.com/maps/place/Cueva+de+los+Quinteros/@18.343314,-66.3328076,15z/data=!4m14!1m7!3m6!1s0x8c033d71da42e283:0xd08fb6a6306b977b!2sReserva+Natural+Cibucol!8m2!3d18.3507988!4d-66.3363588!16s%2Fg%2F11rxnysjss!3m5!1s0x8c033e789d686227:0x68a9c1037ec94f28!8m2!3d18.3521981!4d-66.3318745!16s%2Fg%2F11cmhxtqzd?hl=en&entry=ttu)

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[66.3318745!16s%2Fg%2F11cmhxtqzd?hl=en&entry=ttu](https://www.google.com/maps/place/Cueva+de+los+Quinteros/@18.343314,-66.3328076,15z/data=!4m14!1m7!3m6!1s0x8c033e789d686227:0x68a9c1037ec94f28!8m2!3d18.3521981!4d-66.3318745!16s%2Fg%2F11cmhxtqzd?hl=en&entry=ttu)

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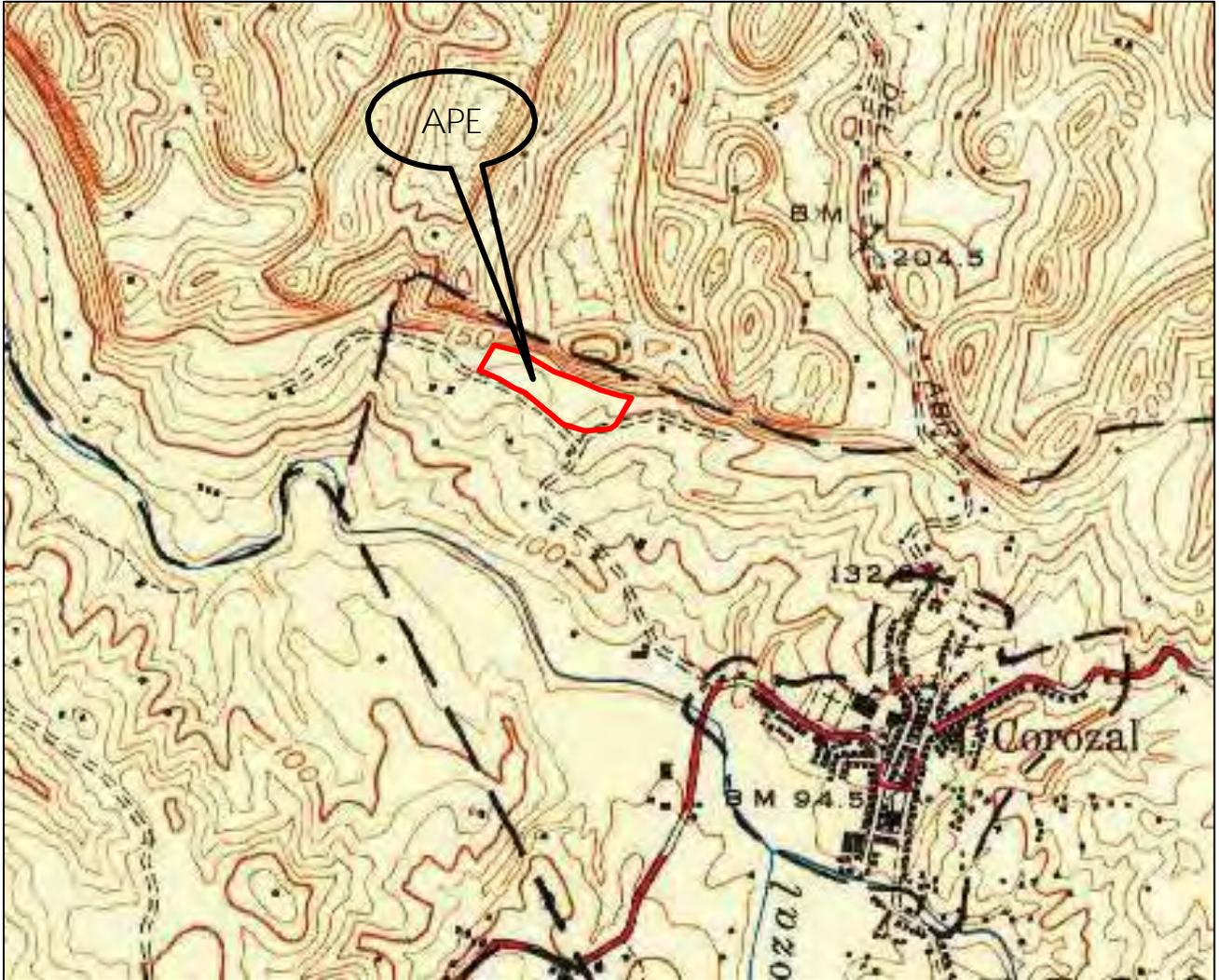
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Project (Parcel) Location – Historic Topographic Map, 1946.

Figure 10. Scale: 1:20,000



Source: USGS Topographic Maps.



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Project (Parcel) Location – Historic Topographic Map, 1953.

Figure 11. Scale: 1:20,000



Source: USGS Topographic Maps.



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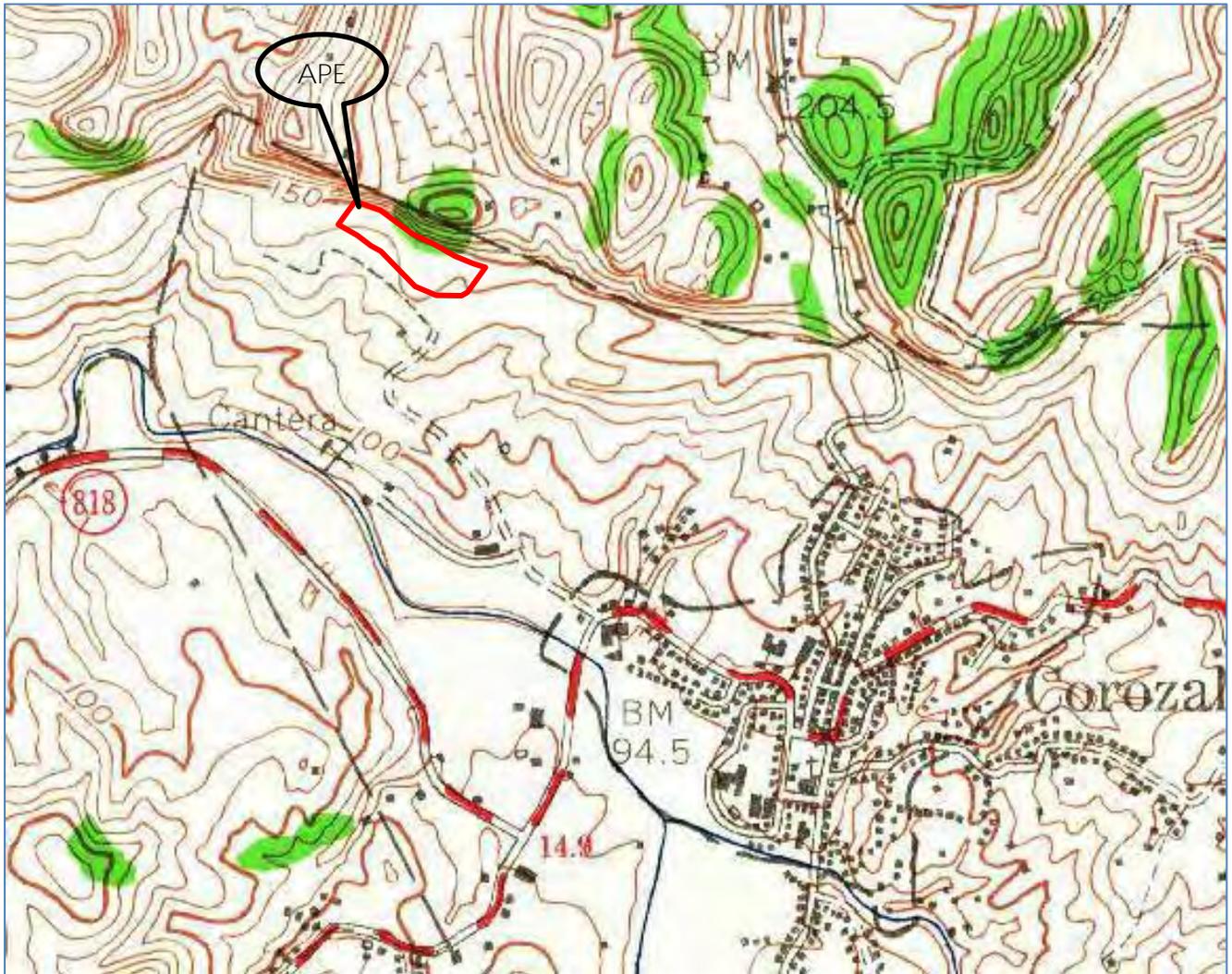
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Project (Parcel) Location – Historic Topographic Map, 1957.

Figure 12. Scale: 1:20000



Source: USGS Topographic Maps.



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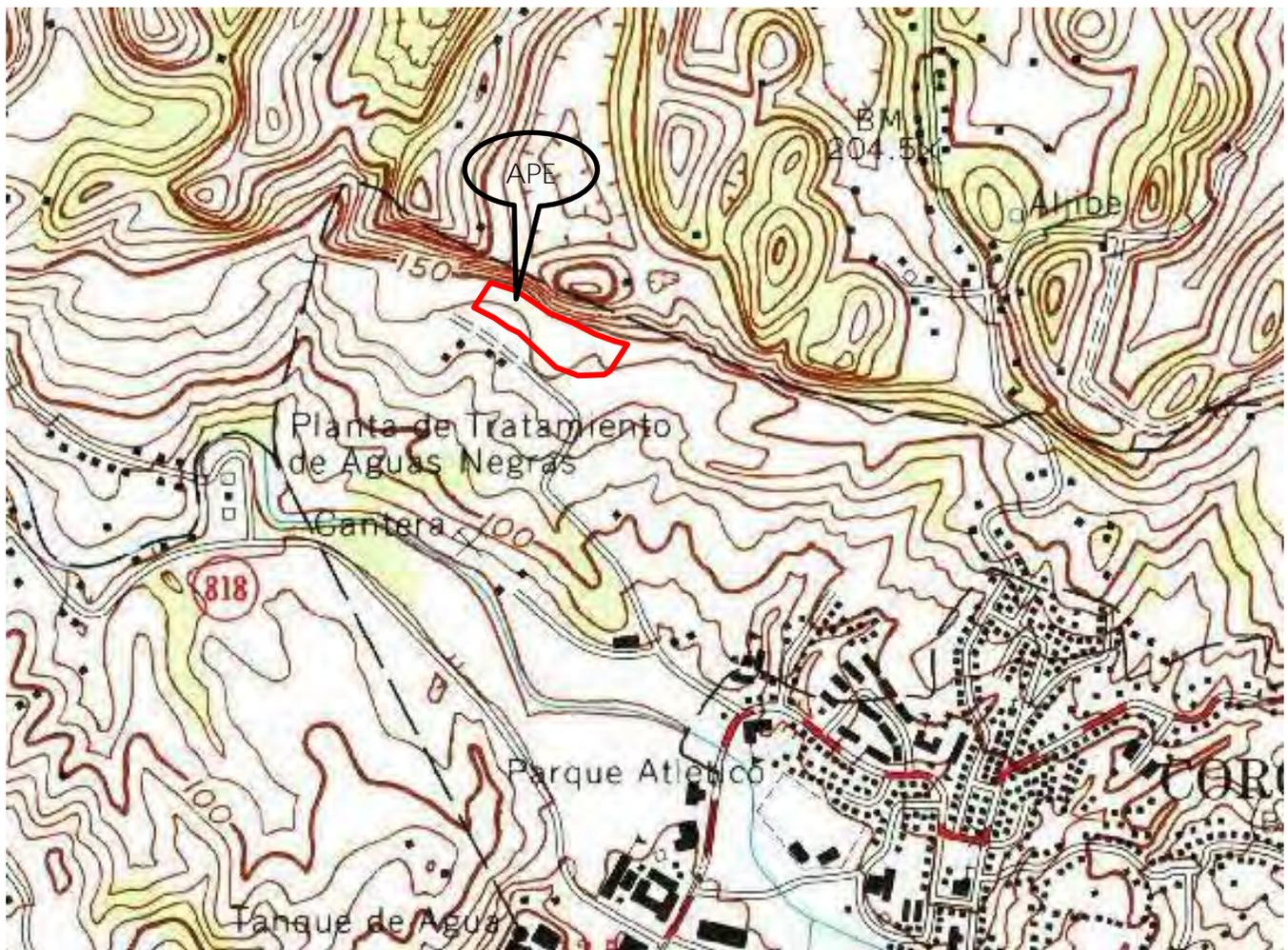
Subrecipient: Municipio de Corozal, Puerto Rico

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Project (Parcel) Location – Historic Topographic Map, 1972.

Figure 13. Scale: 1:20000



Source: USGS Topographic Maps.



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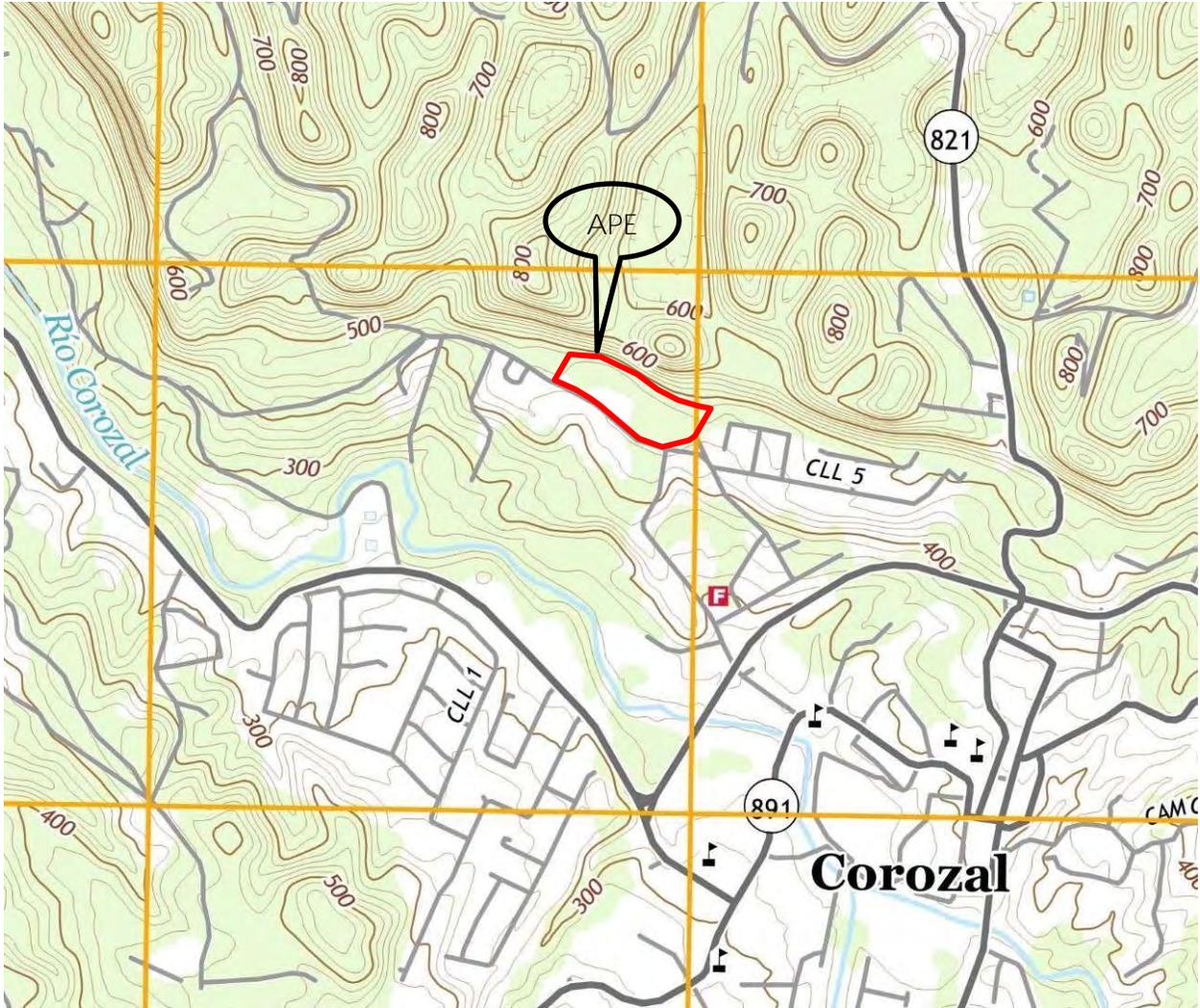
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Project (Parcel) Location – Historic Topographic Map, 2018.

Figure 14. Scale: 1:20000



Source: USGS Topographic Maps.



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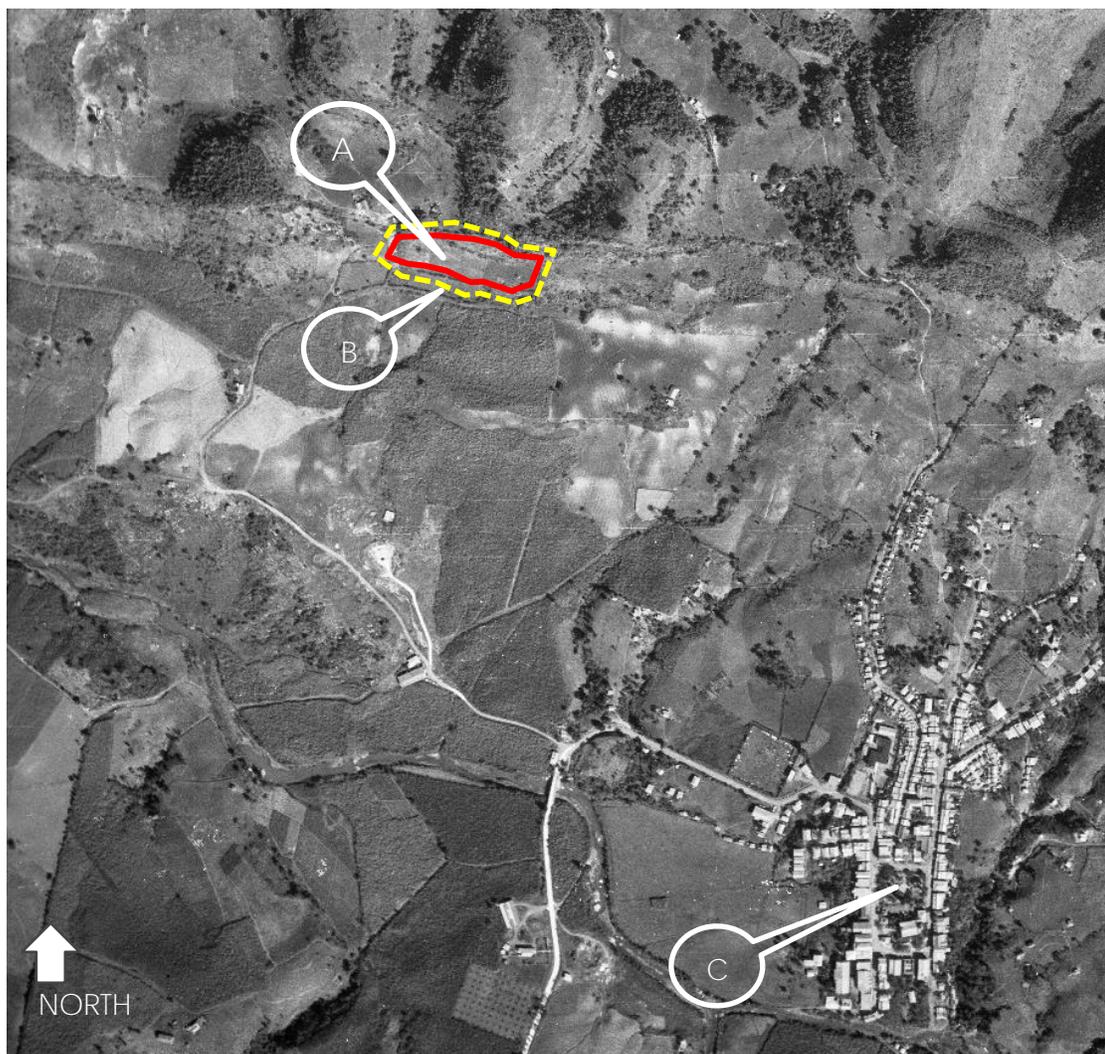
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Aerial Photo, 1931.

Figure 15.

Source: Photogrammetry, DTOP and Applied Engineer Group.
Not to Scale.



LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE.
- C. Traditional Urban Center Square of Corozal. (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).

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Aerial Photo, 1937.
 Figure 16.
 Source: Photogrammetry, DTOP and Applied Engineer Group.
 Not to Scale.



LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE.
- C. Traditional Urban Center Square of Corozal. (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).

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Aerial Photo, 1964.
 Figure 17.
 Source: Photogrammetry, DTOP and Applied Engineer Group.
 Not to Scale.

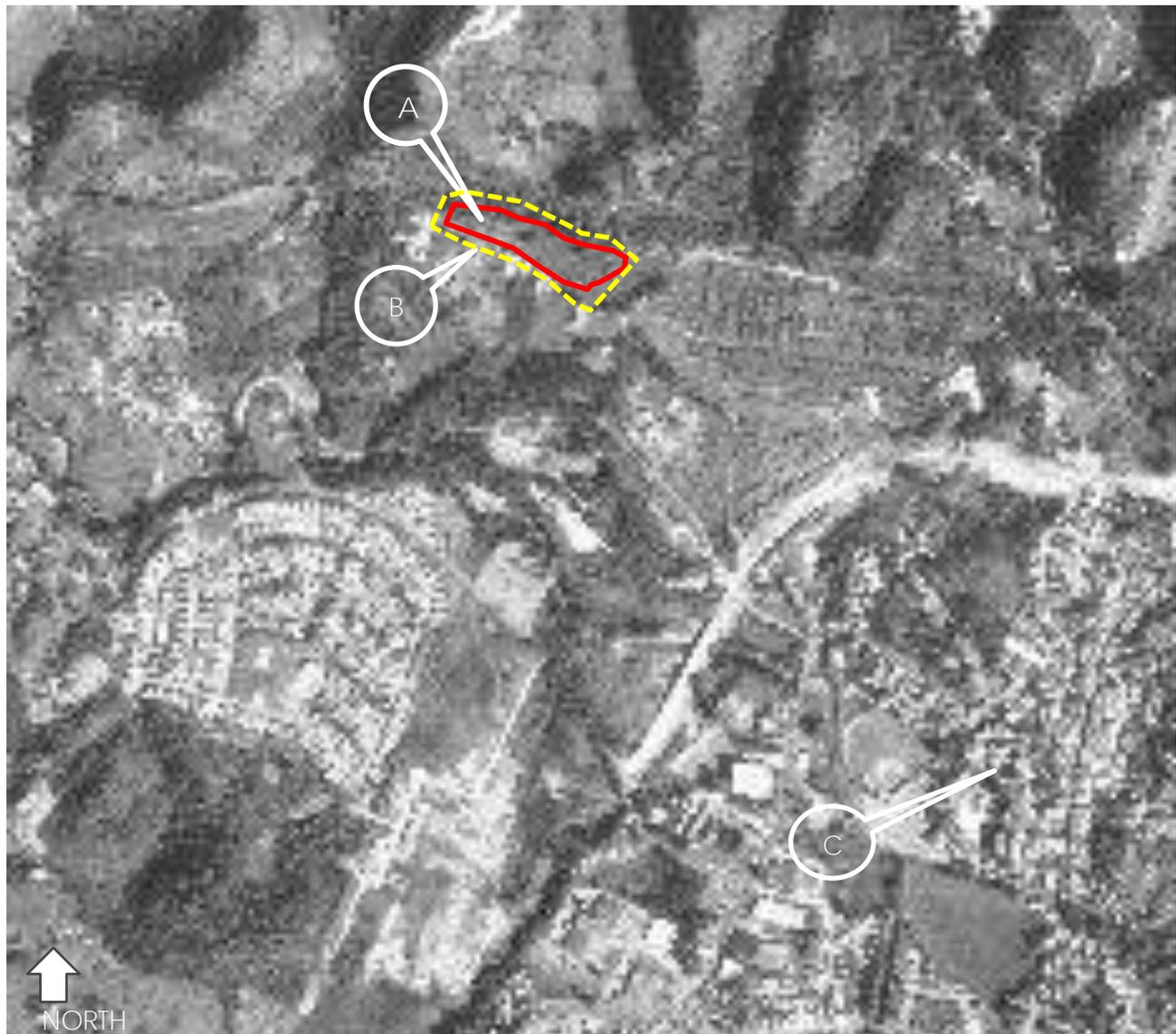


LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE
- C. Traditional Urban Center Square of Corozal. (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).

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Figure 18. Aerial Photo, 1980.
 Source: Photogrammetry, DTOP and Applied Engineer Group
 Not to Scale

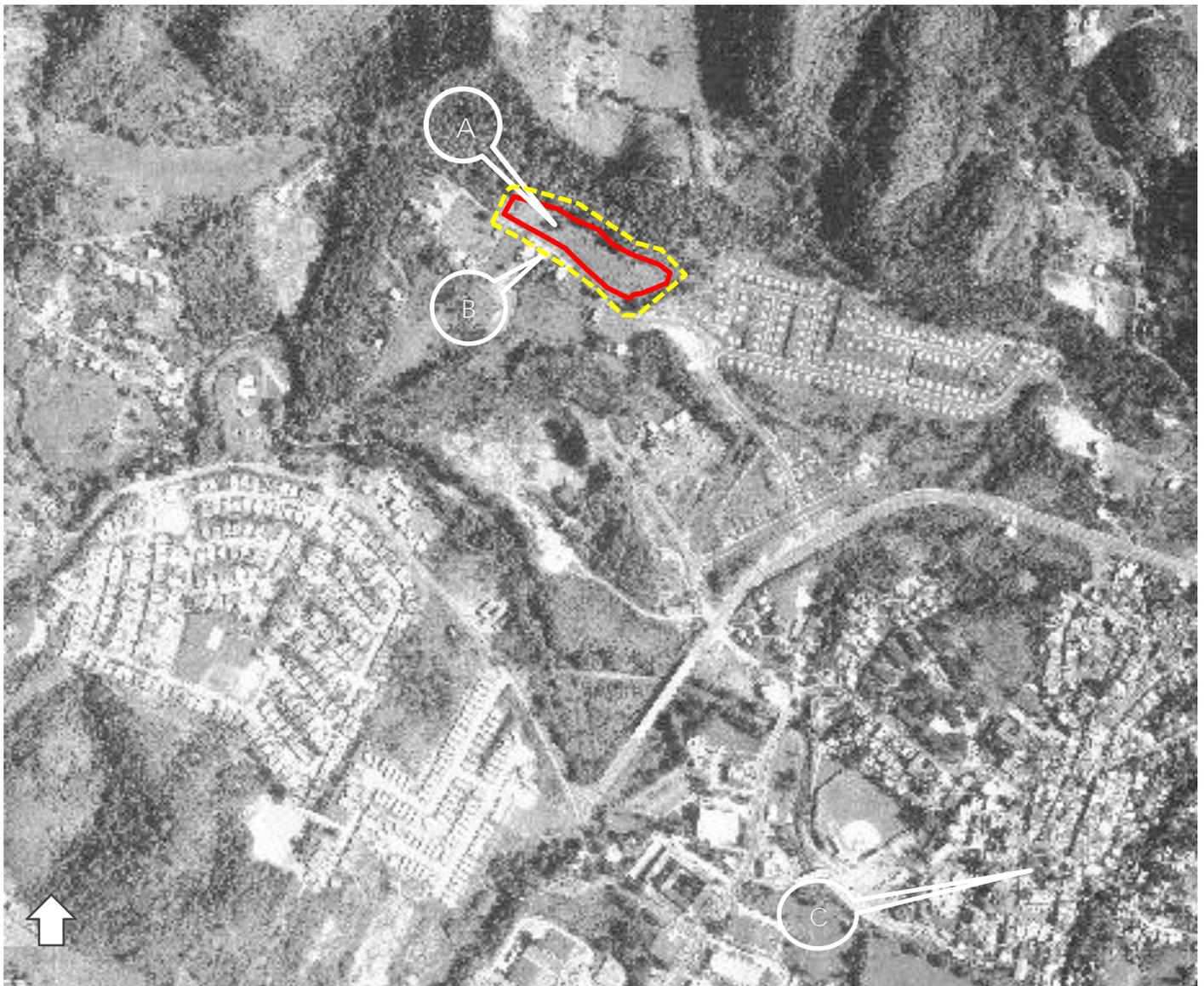


LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE
- C. Traditional Urban Center Square of Corozal. (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).

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Aerial Photo, 1983.
 Figure 19.
 Source: Photogrammetry, DTOP and Applied Engineer Group.
 Not to Scale.



LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE
- C. Traditional Urban Center Square of Corozal. (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).

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Aerial Photo, 1994.
Figure 20.
Source: Google Earth and Proponent.
Not to Scale.



LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE

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Aerial Photo, 2000.
 Figure 21.
 Coordinates: 18.347432; -66.322768. Not to Scale.
 Source: Photogrammetry, DTOP and Applied Engineer Group



LEGEND

- A. APE, (Polideportivo de Corozal).
- B. Visual APE.
- C. Traditional Urban Center Square of Corozal.
 (Approximately 3,566 Linear Feet (0.68 Miles) from the APE Center).
- D. Corozal Traditional Urban Center Boundaries.

Sources: Google Earth; 2024 and PRSHPO: <https://oecb.pr.gov/>

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Conclusions

Previous construction, including substantial associated earth movement and leveling is thought to have altered the landscape within the APE. Further, these impacts likely extend below the vertical depth of the APE to a maximum of 36 inches. For these reasons the prehistoric archaeological potential within the APE is low. While the APE is situated on terrace above a waterway that appears to have been utilized during the prehistoric period, it is unlikely that any intact archeological deposits with research potential are present within the APE.

As can be translated from the analysis of the aerial photographs, these areas were dedicated to agriculture until 1970 when they were acquired by Corozal Construction Corporation and segregated into plots for housing development. In this decade, 1970, the cutting and leveling of the land where the APE is located began. In 1984, the Municipality of Corozal bought the segregated parcels where the APE is located. At the beginning of 1990, the construction of the sports facilities was initiated. The construction processes of the Corozal Sports Center were conducted without archaeological studies. The procedure of cutting and leveling the land occurred before 1994. The analysis of the topographic quadrangles reveals that the natural slope of the mogote inclines 10 meters in the APE area. Therefore, the land was cut and flattened to prepare a leveled area for the construction of the Corozal Sports Center (Figures 10-15). Based on the cartographic analysis and the field inspection, we do not recommend additional archaeological studies on the APE site.

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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 National Register of Historic Places (NRHP)-eligible /listed Corozal Traditional Urban Center / Historic District.

No existing eligible historic properties were identified within the project APE, Visual/APE area. The APE is approximately at 3,566 Linear Feet (0.68 Miles) from the Traditional Urban Center of Corozal.

One historic property/site was identified located within the ½ mile radius boundaries, and is not within the Indirect/Visual APE:

- A. The Enrique Landrón Public Housing, 1960, is approximately 2,477 Linear Feet (0.47 Miles) from the APE Center.

No listed, historic or eligible properties were found within the proposed project APE and Visual APE.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
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Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - No direct effect on historic properties within the APE.
- Indirect Effect:
 - No indirect effect on historic properties within the Visual APE.

Based on the results of our historic property identification efforts, the Program has determined that the proposed project actions will not affect any historic properties. There has been identified two historic properties, the Abraham Lincoln School, (vacant) and the Enrique Landrón Public Housing, that are included in the ½ mile radius, but they do not fall within the APE nor the Visual APE of the project. No existing historic or cultural properties are within the APE, and they are beyond the Traditional Urban Center boundaries.

The contour lines on the North side of the plot, where the mogote is located, identify an elevation of 150 meters above sea level, while on the southern side of the plot, the contour lines are 140 meters above sea level. The natural slope of the mogote inclines 10 meters. Therefore, to open the leveled area for the construction of the sports center, the land was cut and leveled. (Figures 10-15).

Based on the cut and filled activities conducted to prepare the Site for the construction of the sports facilities, the possibility of cultural resources remnants in the project APE is low. Based on the cartographic analysis and the observations effectuated during the field inspection completed on January 23, 2024, we do not recommend additional archaeological studies on the APE site.

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Recommendation *(Please keep on same page as SHPO Staff Section)*

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

- No Historic Properties Affected
- No Adverse Effect
Condition (if applicable):
- 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: <ul style="list-style-type: none"> <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:

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
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GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

Subrecipient: Municipio de Corozal, Puerto Rico

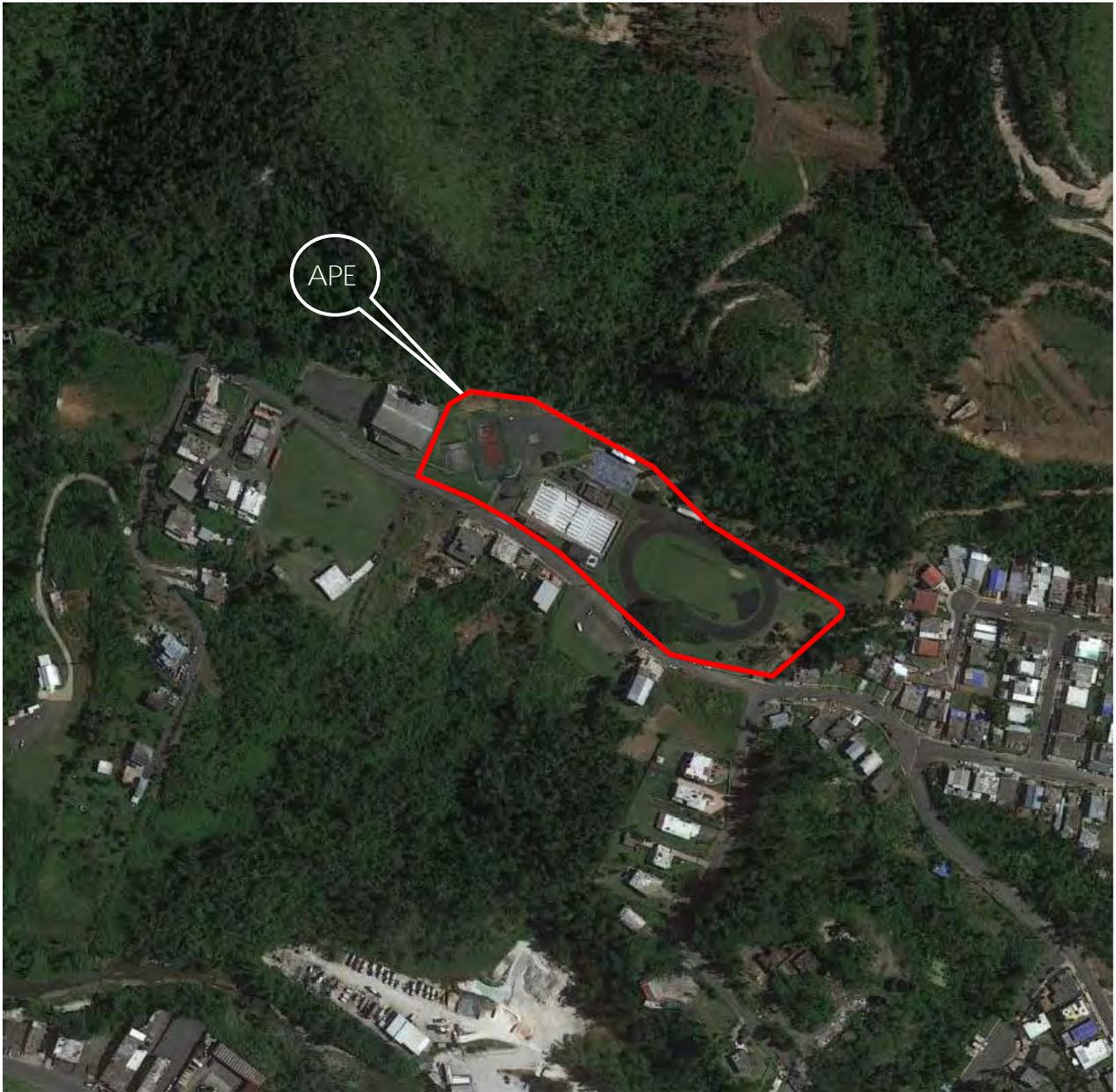
Project Name: Mejoras a Facilidades de Polideportivo de Corozal

Program Number: PR-CRP-000883

Project (Parcel) Location – Area of Potential Effect Map (Aerial)

Figure 23.

Coordinates: 18.347432; -66.322768.



APE for this project is Length: 995 Linear Feet
and Width: 235 Linear Feet (5.37 Acres),

100 FEET
GRAPHIC SCALE: 300 FEET



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DEPARTMENT OF HOUSING

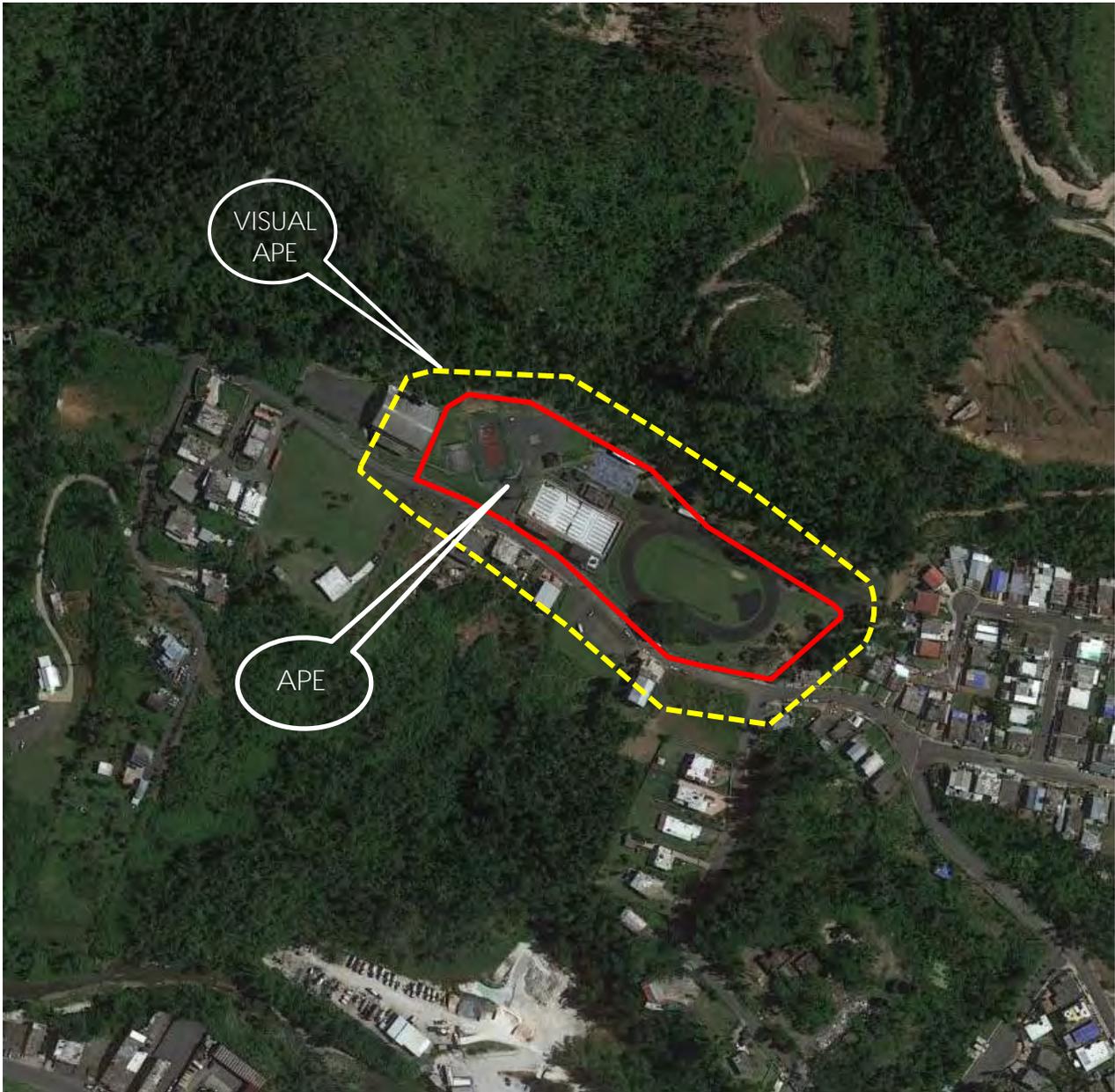
Subrecipient: Municipio de Corozal, Puerto Rico

Project Name: Mejoras a Facilidades de Polideportivo de Corozal

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Figure 24. Project (Parcel) Location – (Visual Effect Aerial Map)

Coordinates: 18.347432; -66.322768.



Visual APE is the viewshed of the proposed project which is 1,164 Linear Feet in Length and Width is 330 Linear Feet, equivalent to 8.82 Acres.

100 FEET
GRAPHIC SCALE: 300 FEET



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
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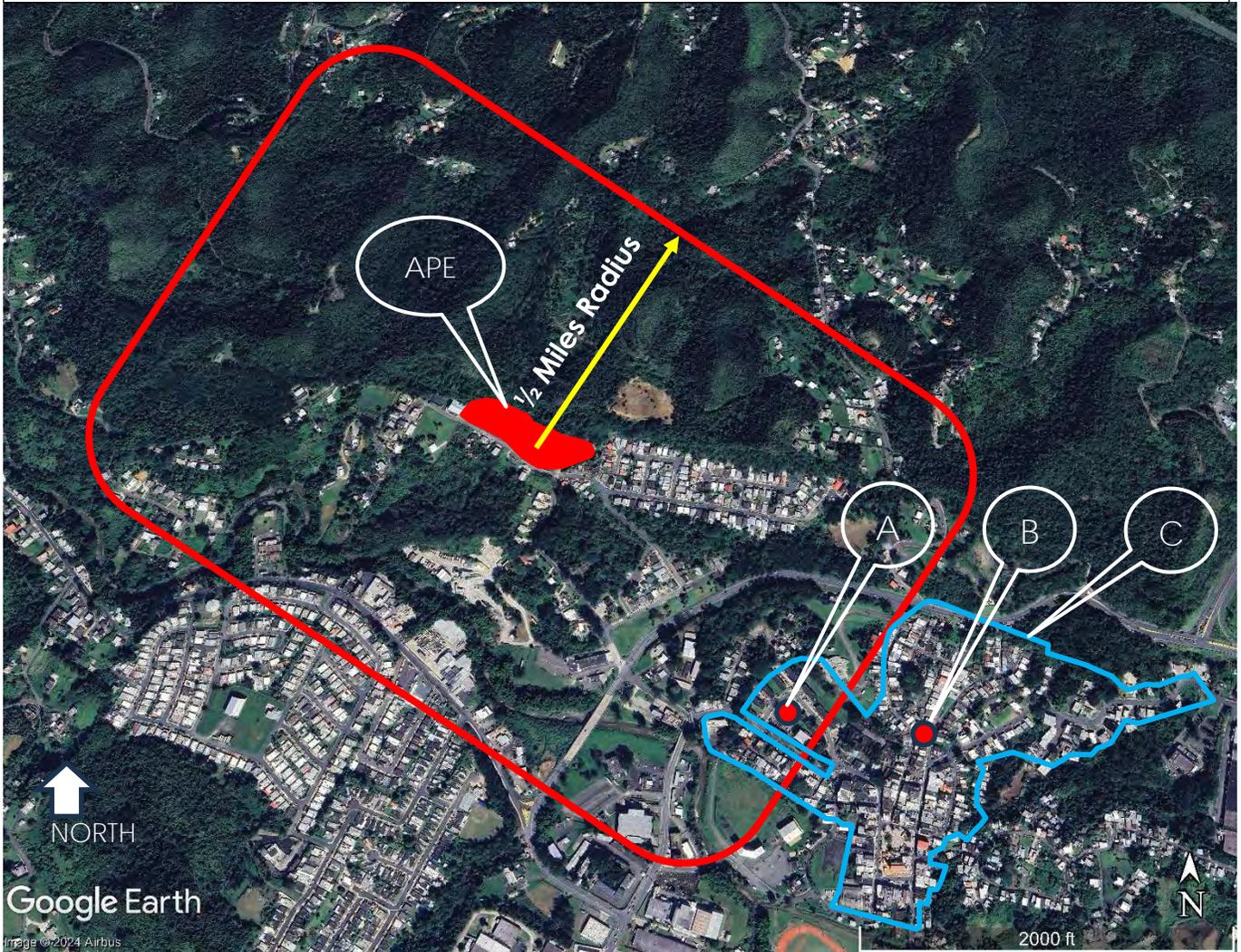


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Figure 25. Project Parcel Location- 1/2 Mile Radius Aerial Map
Coordinates: 18.347432; -66.322768.



1000 FEET

GRAPHIC SCALE: 2000 FT

LEGEND

- A. Enrique Landrón, Public Housing, is approximately 2,477 Linear Feet (0.47 Miles) from the APE Center.
- B. Traditional Urban Center Square of Corozal, Puerto Rico, is approximately 3,566 Linear Feet (0.68 Miles) from the APE Center.
- C. Traditional Urban Center Delimitation of Corozal, Puerto Rico. (PRSHPO).

Sources:

PRSHPO: <https://oech.pr.gov/>
Google Earth, 2024.

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Project (Parcel) Location – (Soils Map)
 Figure 26.
 Coordinates: 18.347432; -66.322768.
 Not to Scale



Map unit symbol	Map unit name
CrE2	Colinas clay loam, 20 to 40 percent slopes
CuE	Consumo clay, 20 to 40 percent slopes
SoF	Soller clay loam, 40 to 60 percent slopes
Totals for Area of Interest	



Source: USDA Soils Map
 United States Department of Agriculture
 National Resources Conservation Services

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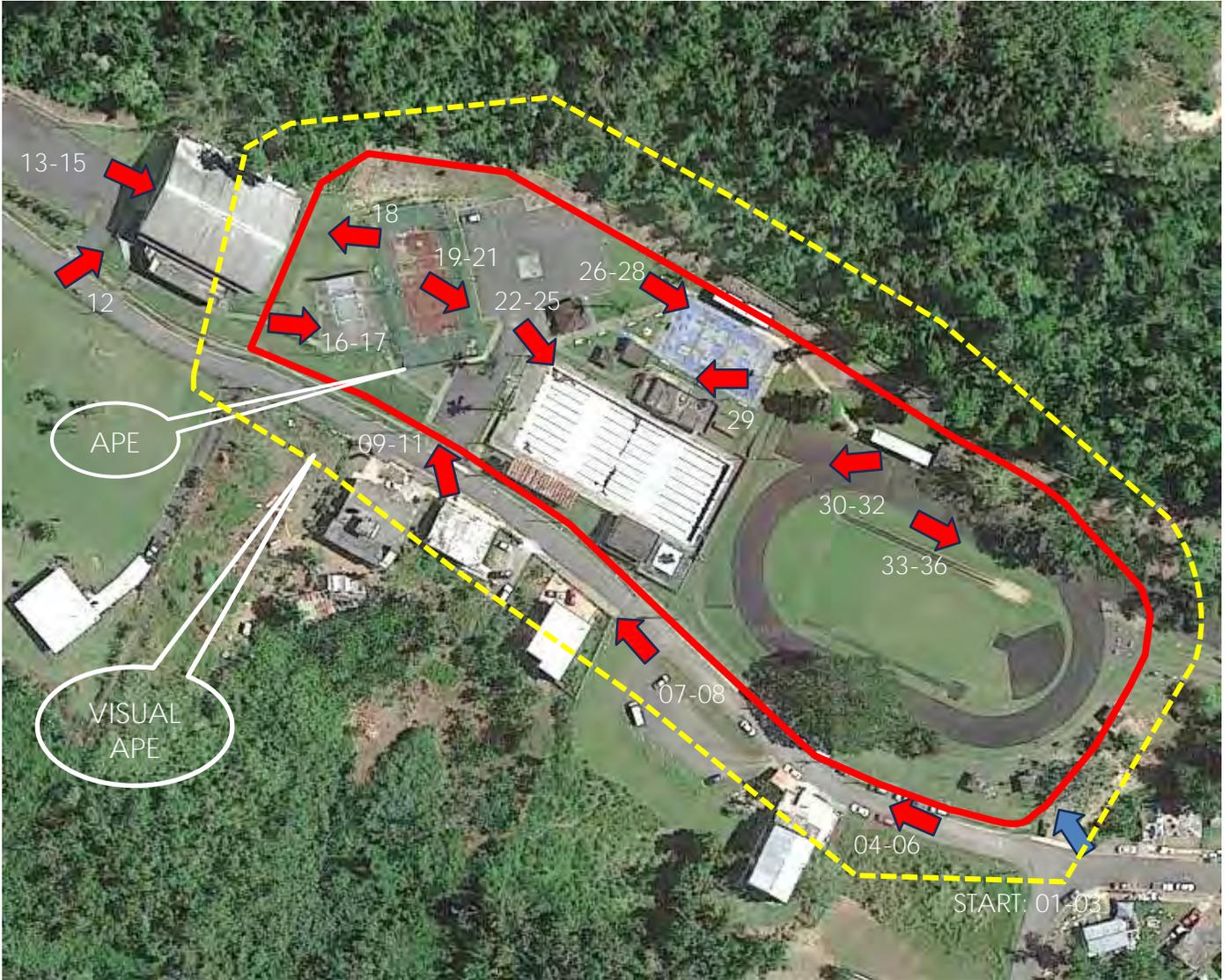
Project Name: Mejoras a Facilidades de Polideportivo de Corozal

Program Number: PR-CRP-000883

Photograph Key

Figure 27.

Coordinates: 18.347432; -66.322768.



Source: Google Earth; 2023



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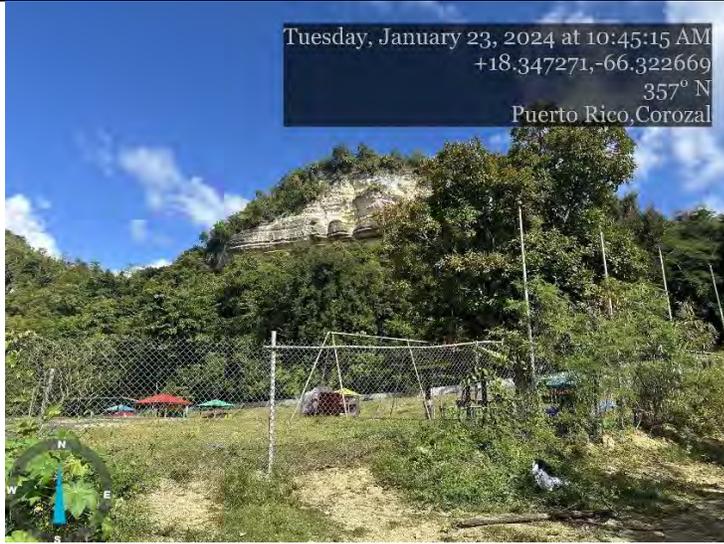


Photo: #01

Description: North view towards mogotes formations. APE and visual APE. (A mogote is a unique formation of isolated residual hills with steep sides, which is composed of limestone, marble, or dolomite and are surrounded by nearly flat alluvial planes).

Date: 01/23/24



Photo: #02

Description: North-West view. Kiosks from the park and mogotes formations. APE.

Date: 01/23/24

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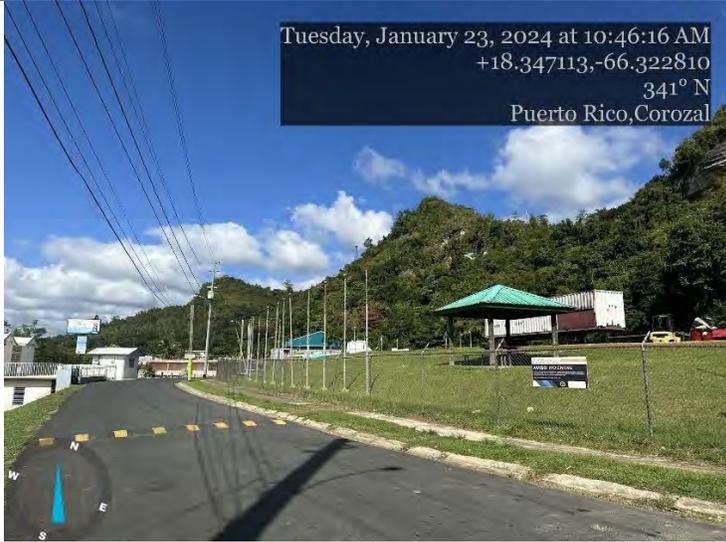


Photo: #03

Description: North-West view. Ramirez Street. APE and visual APE.

Date: 01/23/24

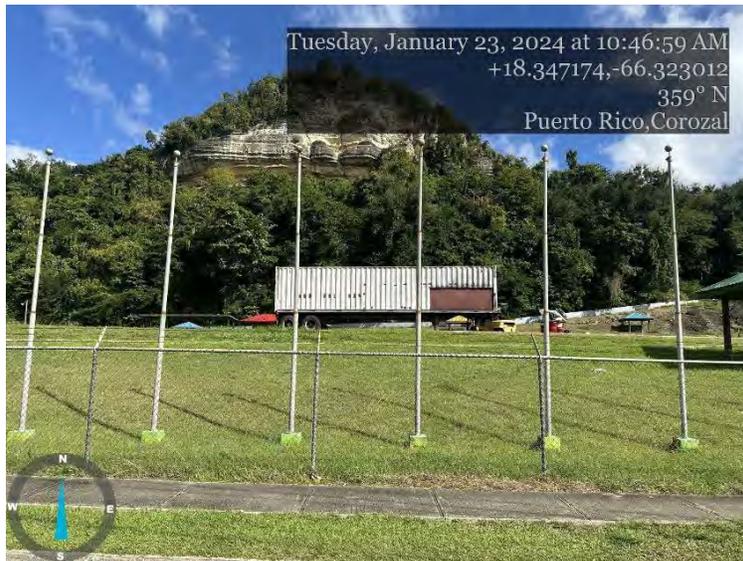


Photo: #04

Description: North view. Track field and mogote formation on the background. APE.

Date: 01/23/24

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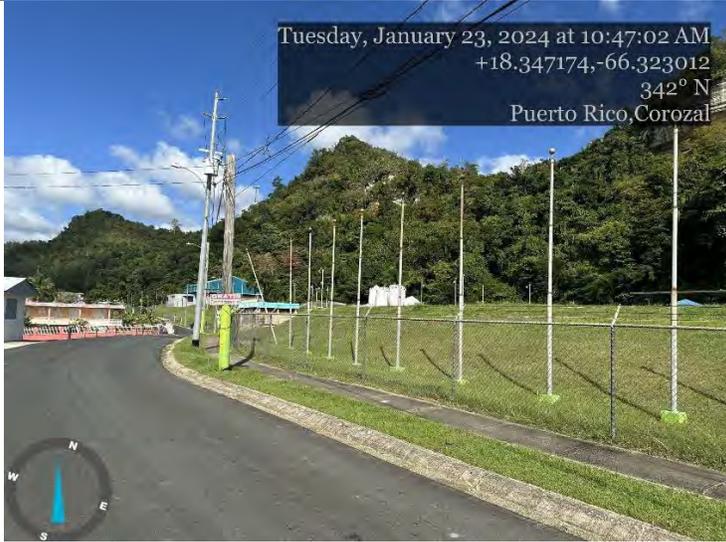


Photo: #05

Description: North-West view. Ramirez Street. Track field on the right. APE and visual Ape.

Date: 01/23/24



Photo: #06

Description: North view. Ramirez Street. Track field and pool on the right.

Date: 01/23/24

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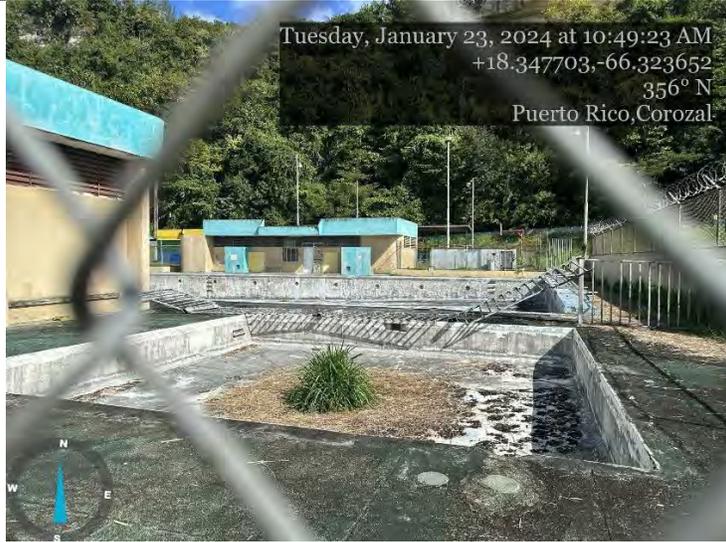


Photo: #07

Description: North view. Swimming pool area. APE.

Date: 01/23/24

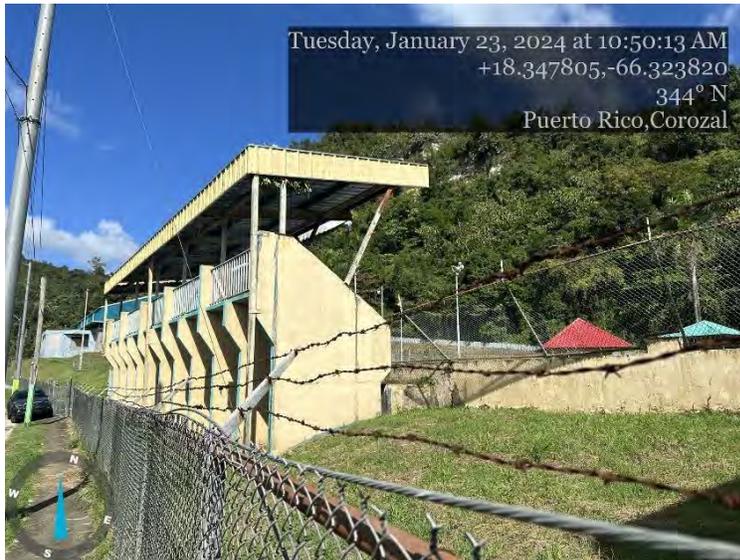


Photo: #08

Description: North-West view. Swimming pool area seating area (bleachers). APE.

Date: 01/23/24

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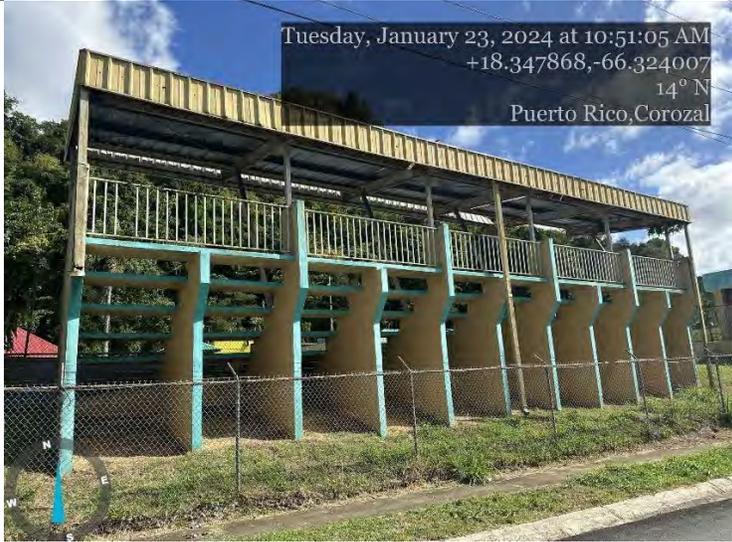


Photo: #09

Description: North view. Posterior elevation of the swimming pool area seating area (bleachers). APE.

Date: 01/23/24



Photo: #10

Description: North view. Main entrance road from Ramirez Street. APE.
 Notes: Redesign of the main entrance with an architectural wall, landscaping, and new gate. The new architectural wall will require excavation for footing construction of 8" by 14" of depth and an excavation of 14" by 36" for a new fence.

Date: 01/23/24

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Photo: #11

Description: North-West view. Ramirez Street. Gym area. Structural Steel building, towards the right. APE and visual APE.

Date: 01/23/24



Photo: #12

Description: North-East view from Ramirez Street. Polideportivo main entrance and Gym area (Structural Steel building) toward the right. Visual Ape.

Date: 01/23/24

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Photo: #13

Description: East view. Gym area interior. Visual APE.

Date: 01/23/24



Photo: #14

Description: North-East view. Gym area interior. Visual APE.

Date: 01/23/24

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Photo: #15

Description: South-East view. Gym area interior. Visual APE.

Date: 01/23/24



Photo: #16

Description: East view, towards racket ball court. APE.

Date: 01/23/24

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Photo: #17	Description: East view, handball court. APE. Notes: Soil removal of around 5,297.2 cubic feet will be required and excavation of around 36" depth to remove wall footings and excavation not less than 12" but not deeper than 24" for the new concrete slab and surrounding fence will be required.
Date: 01/23/24	



Photo: #18	Description: North-West view, towards handball court and Gym building. APE and visual Ape.
Date: 01/23/24	

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Photo: #19

Description: East view. Tennis court. APE.

Date: 01/23/24



Photo: #20

Description North-East. Parking area near service entrance and swimming pool. APE.

Date: 01/23/24

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Photo: #21

Description: East view. Parking area. APE.

Date: 01/23/24



Photo: #22

Description: North-East view. Towards gazebo. APE. Notes: Replacement of the existing playgrounds and the installation of a new playground (two areas within the Sports Center). Both playgrounds, for their support, require a selective excavation of no more than 18" to secure structures in place.

Date: 01/23/24

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Photo: 23	Description: East view. Swimming pool area. APE. Notes: Trenches will be needed to accommodate piping and conduits. This construction will be performed in the existing pool facilities. Trenches required are expected to be at the concrete level or in the areas previously impacted during the original construction. Trenches may vary in size from 12" to 36". New finishing floor to be installed as part of this remodeling.
Date: 01/23/24	

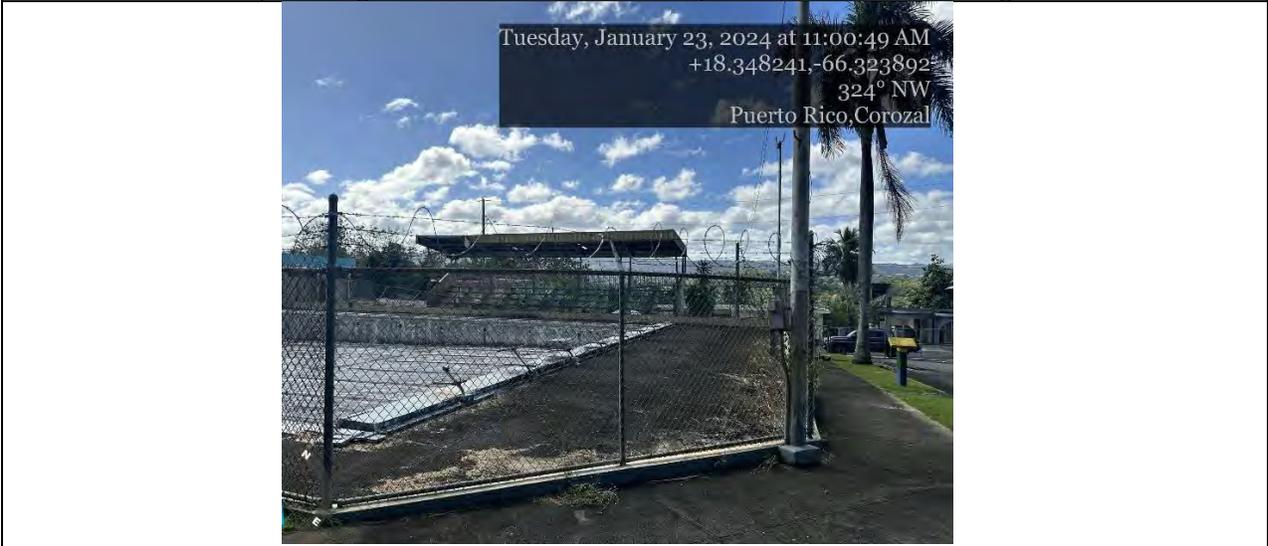


Photo: #24	Description: East-South view. Swimming pool area. APE.
Date: 01/23/24	

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Photo: #25	Description: East-South view. Swimming pool area. APE.
Date: 01/23/24	

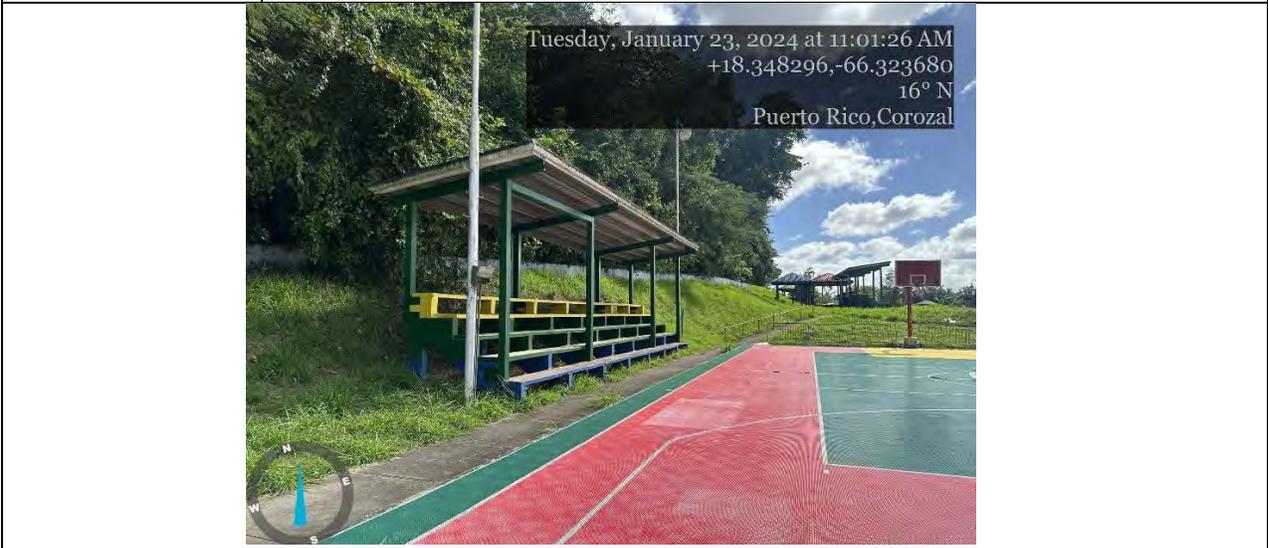


Photo: #26	Description: North-East view. Basketball area bleachers. APE. Notes: The existing concrete slab will be demolished to provide space for the new court. The new court will require an area of 8,100 ft ² . Also, excavation not less than 12" but not deeper than 36". The existing natural grass area at the back of the bleachers will be cut to expand the court and the construction of the new bleachers zone.
Date: 01/23/24	

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Photo: #27

Description: East view. Basketball area. APE.

Date: 01/23/24

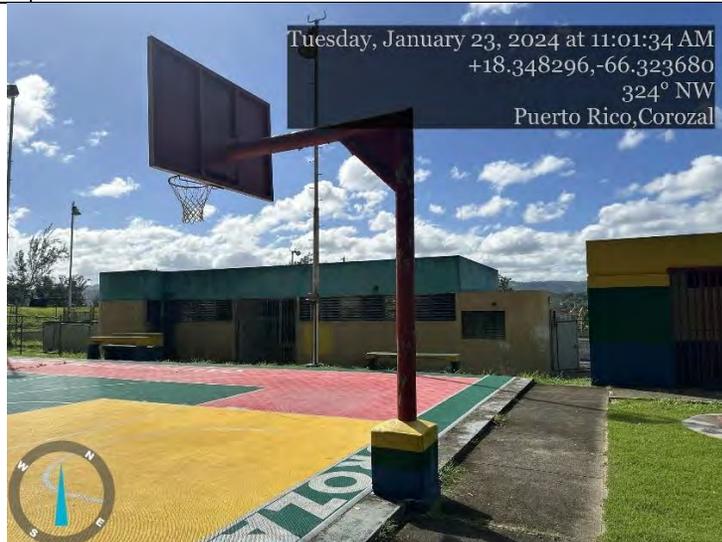


Photo: #28

Description: East-South view. Basketball area restrooms. APE. Notes: The sidewalk crossing between the basketball court and pool will be extended to provide access to the upper part of the park (athletic field and playgrounds). This will require removal of soil of no more than 8" deep in an area of 120 ft².

Date: 01/23/24

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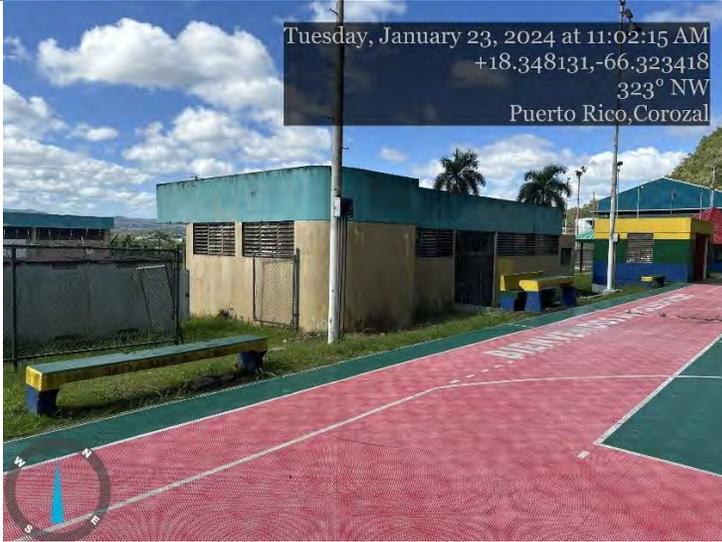


Photo: #29

Description: South-West view. Basketball area restrooms. APE.

Date: 01/23/24



Photo: #30

Description: West view. Athletic-track field area. APE.

Date: 01/23/24

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Photo: #31

Description: North view. Athletic-track field area. APE.

Date: 01/23/24



Photo: #32

Description: North-East view. Athletic-track field area. APE.

Date: 01/23/24

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Photo: #33

Description: North-East view. Athletic-track field area. APE.

Date: 01/23/24

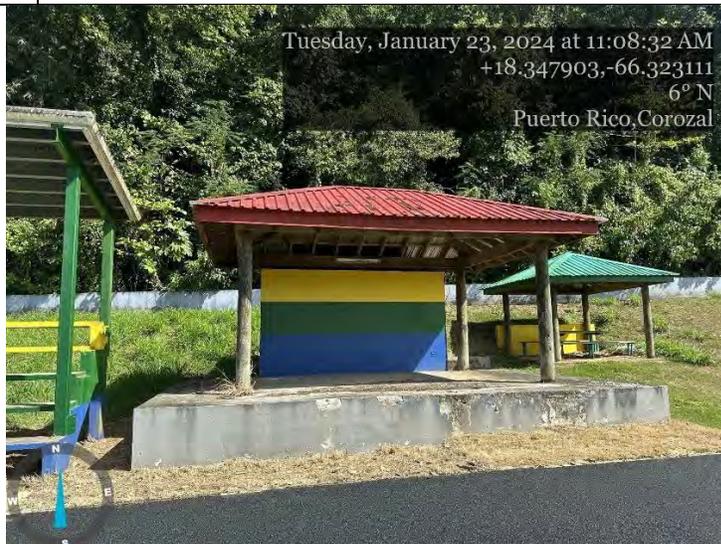


Photo: #34

Description: North view. Athletic-track field area kiosks. APE.

Date: 01/23/24

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Photo: #35	Description: North-East view. Athletic-track field area. APE.
Date: 01/23/24	

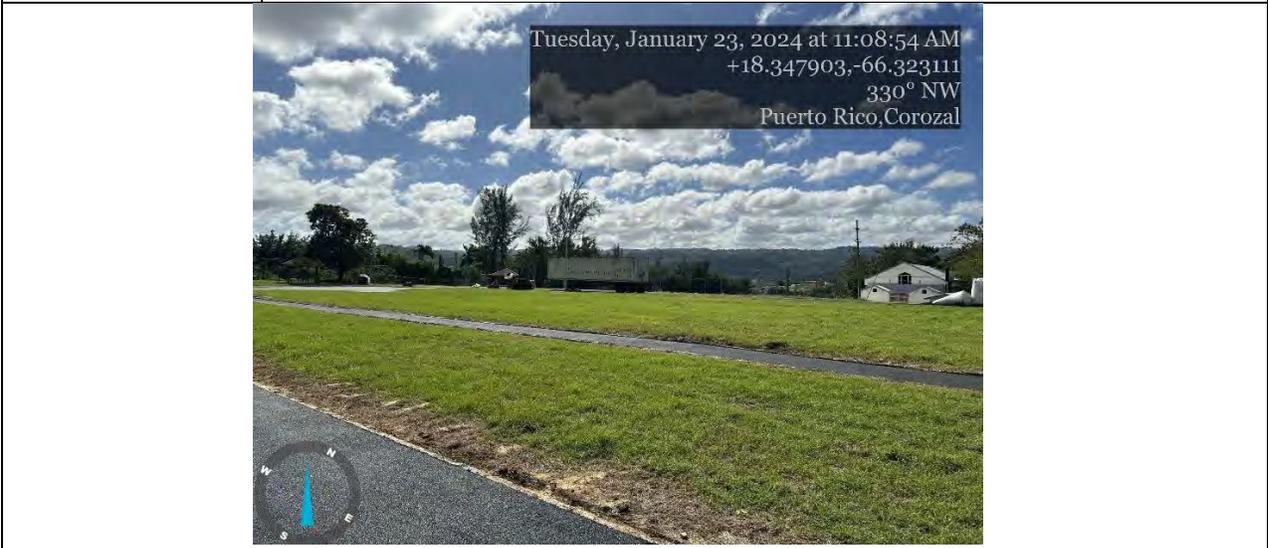


Photo: #36	Description: North-East view. Athletic-track field area. APE.
Date: 01/23/24	

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Appendix A



GOBIERNO MUNICIPAL DE COROZAL

Departamento de Planificación y Desarrollo Económico

1 de abril de 2024

Luego de haber realizado una investigación sobre el caso relacionado a las parcelas donde actualmente se encuentra el polideportivo, esto a petición de la arqueóloga Norma Medina Carrillo para el formulario CDBG de PR-SHPO se desprende que las mismas fueron adquiridas por el municipio de Corozal mediante compraventa el 8 de febrero de 1984 a la sociedad de bienes gananciales compuesta por Manuel Frías González y Virginia Taboas de Frías. Dicha sociedad adquirió la propiedad mediante compraventa a Corozal Construction Corp según consta en la escritura 23 del 18 de mayo de 1970. La cual se halla inscrita en el registro de la propiedad en el folio 190 tomo 92 finca 4496. La otra parcela perteneciente a la sociedad de bienes gananciales compuesta por Pacifico Taboas y Carmiña León de Taboas adquirieron la misma mediante compraventa a Corozal Construction Corp. según consta en la escritura 22 del 18 de mayo de 1970 se encuentra inscrita en el folio 195 tomo 92 finca 4497 del registro de la propiedad. La otra parcela que compone el área donde ubica el Polideportivo la cual pertenecía a la sociedad de bienes gananciales compuesta por Luis Aymat Soler y Angelina Ruiz de Aymat estos obtuvieron su parcela mediante compraventa a Corozal Construction Corp. mediante la escritura número 15 el 18 de mayo de 1970 según inscrita en el folio 34, tomo 92, finca 4463. Estas sociedades de bienes gananciales mencionadas eran los dueños de estas parcelas antes de que se construyera el polideportivo las parcelas se segregaron de la finca #1631 inscrita en el folio 31 del tomo 62. El uso de estas era uno residencial. Estas parcelas están clasificadas dentro del Plan de Uso de Terreno como suelo urbano.

Mónica Pacheco Resto
Directora Oficina de Planificación

PR-CRP-000883

**Mejoras a Facilidades de Polideportivo de
Corozal Project**

Corozal, Puerto Rico

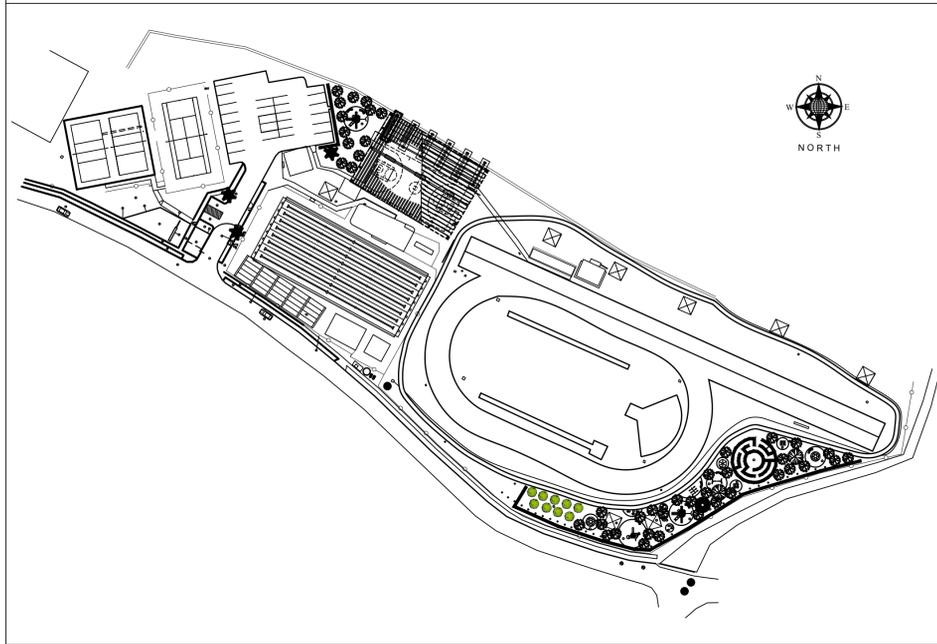
90% Design Drawings

IMPROVEMENT PROJECT

COROZAL SPORTS COMPLEX FACILITIES, PR-CRP-000883
 PUERTO RICO 821, COROZAL, 00783, PR



GOBIERNO MUNICIPAL DE COROZAL
HON. LUIS GARCIA ROLON



SHEET

T-1 TITLE PAGE

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- EX-1 SITE PLAN
- EX-2 SITE LIGHTING AND POWER DISTRIBUTION AS-BUILT
- EX-3 SITE LIGHTING AND POWER DISTRIBUTION DETAILS
- EX-4 ITEM 8 POOL MECHANICAL ROOM AS-BUILT
- EX-5 ITEM 13 POOL MAIN ENTRANCE BUILDING AS-BUILT
- EX-6 ITEM 14 KIOSK AS-BUILT
- EX-7 ITEM 15 RESTROOMS AS-BUILT

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- DP-2 DEMOLITION GENERAL NOTES

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- A-2 ARCHITECTURAL - PROPOSED PARK'S MAIN ENTRANCE
- A-3 ARCHITECTURAL - PROPOSED VOLLEYBALL COURT
- A-4 ARCHITECTURAL - TENNIS COURT FLOOR PLAN
- A-5 ARCHITECTURAL - PROPOSED BASKETBALL - FLOOR PLAN
- A-6 ARCHITECTURAL - PROPOSED BASKETBALL - STRUCTURAL PLAN
- A-7 ARCHITECTURAL - PROPOSED BASKETBALL COURT - ELEVATION
- A-8 ARCHITECTURAL - PROPOSED BASKETBALL COURT - DETAILS

SHEET

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- A-9.1 ATHLETIC POOL FLOOR PLAN PREPARATION NOTES 2
- A-10 ATHLETIC POOL FILTERING SYSTEM
- A-11 ATHLETIC POOL MECHANICAL AND CONTROL EQUIPMENT
- A-12 ATHLETIC POOL CONSTRUCTION REPAIR DETAILS
- A-13 ARCHITECTURAL - PROPOSED PLAYGROUND FLOOR PLAN
- A-14 ARCHITECTURAL - PROPOSED GABION MAZE DETAILS AND INSTALLATION
- A-15 ARCHITECTURAL - PROPOSED PLAYGROUND FURNITURE DETAILS
- A-16 ARCHITECTURAL - DETAILS AND NOTES

SITE PLAN

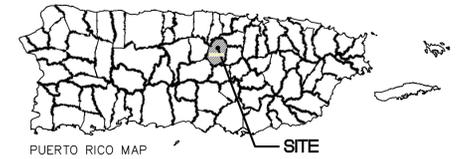
- SI-1 ARCHITECTURAL PROPOSED - MAIN ENTRANCE AND LANDSCAPING
- SI-2 ARCHITECTURAL PROPOSED - MAIN ENTRANCE AND LANDSCAPING MATERIALS
- SI-3 ARCHITECTURAL PROPOSED - MAIN ENTRANCE AND LANDSCAPING DETAILS
- SI-4 ARCHITECTURAL PROPOSED - GENERAL NOTES
- SI-5 POOL BATHROOMS DESIGN PLAN ELEVATIONS AND SCHEDULE
- SI-6 RESTROOMS DESIGN PLAN ELEVATIONS AND SCHEDULE
- SI-7 BATHROOMS/RESTROOMS MECHANICAL PLUMBING NOTES AND DETAILS

STRUCTURAL PLAN

- S-1 NEW BASKETBALL BUILDING DESIGN ELEVATIONS
- S-2 NEW BASKETBALL BUILDING FOUNDATION PLAN
- S-3 NEW BASKETBALL BUILDING STRUCTURAL FOOTING DETAILS 1
- S-4 NEW BASKETBALL BUILDING STRUCTURAL FOOTING DETAILS 2
- S-5 NEW VOLLEYBALL COURT WALL SLAB DETAILS
- S-6 CONCRETE WORKS NOTES AND SPECIFICATIONS
- S-7 NEW BASKETBALL BUILDING STRUCTURAL ROOF PLAN AND ISOMETRIC
- S-8 NEW BASKETBALL BUILDING LATERAL TRUSS DETAILS
- S-9 NEW BASKETBALL BUILDING FRONTAL AND REAR TRUSS DETAILS
- S-10 NEW BASKETBALL BUILDING STRUCTURAL STEEL DETAILS
- S-11 NEW BASKETBALL BUILDING STRUCTURAL STEELWORK AND DETAILS
- S-12 NEW BASKETBALL BUILDING STRUCTURAL STEEL NOTES
- S-13 NEW BASKETBALL BUILDING ALUMINUM FRAME DETAILS
- S-14 NEW BASKETBALL BUILDING ROOF DRAINAGE PLAN AND DETAILS
- S-15 NEW BASKETBALL BUILDING BLEACHER DETAILS
- S-16 PARK MAIN ENTRANCE CONSTRUCTION DETAILS
- S-17 GENERAL DETAILS 1
- S-18 GENERAL DETAILS 2

ELECTRICAL PLAN

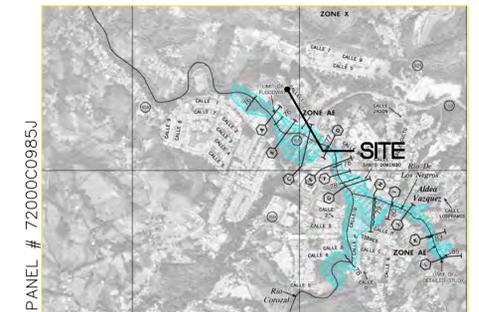
- E-1 ELECTRICAL - PROPOSED ELECTRICAL POWER SITE PLAN
- E-2 ELECTRICAL - PROPOSED ELECTRICAL AND LIGHTING ONE-LINE DIAGRAM
- E-3 ELECTRICAL - PROPOSED ELECTRICAL AND LIGHTING SCHEDULES
- E-4 ELECTRICAL - PROPOSED NEW ELECTRICAL LAYOUT PLANS FOR AREAS
- E-5 ELECTRICAL - ATHLETIC POOL PANEL SCHEDULE



ZONING MAP (Dg: DOTACION GENERAL)



LOCATION PLAN



FLOOD PLAN MAP

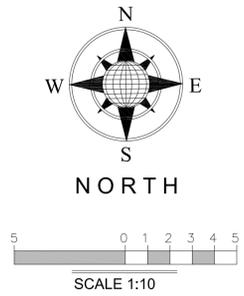
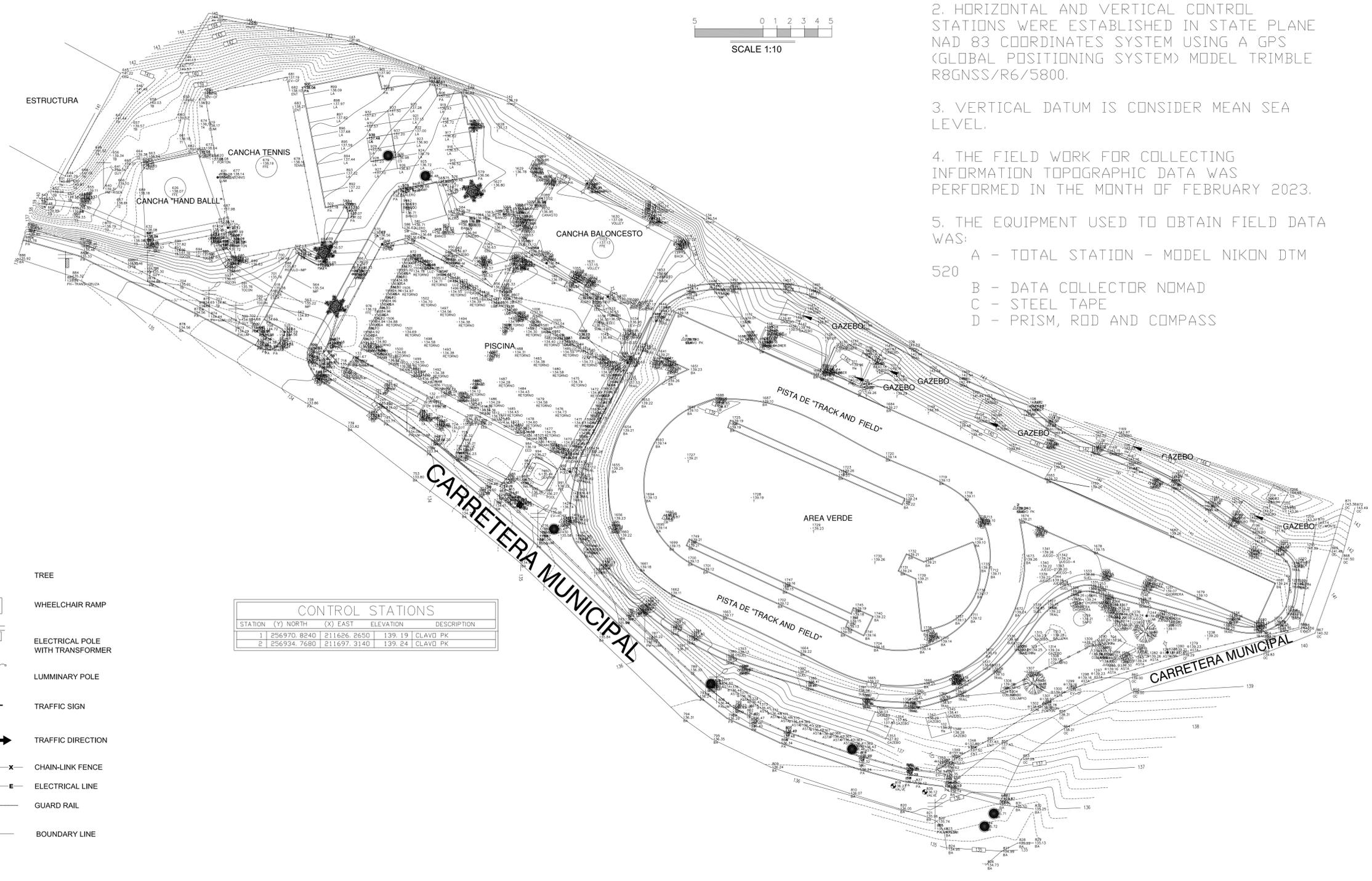


CRIM MAP



APPLIED ENGINEERING GROUP
 MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

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NOTES:

1. ALL DISTANCE SHOWN IN THIS PLAN ARE IN THE METRIC SYSTEM UNLESS OTHERWISE INDICATED.
2. HORIZONTAL AND VERTICAL CONTROL STATIONS WERE ESTABLISHED IN STATE PLANE NAD 83 COORDINATES SYSTEM USING A GPS (GLOBAL POSITIONING SYSTEM) MODEL TRIMBLE R8GNSS/R6/5800.
3. VERTICAL DATUM IS CONSIDER MEAN SEA LEVEL.
4. THE FIELD WORK FOR COLLECTING INFORMATION TOPOGRAPHIC DATA WAS PERFORMED IN THE MONTH OF FEBRUARY 2023.
5. THE EQUIPMENT USED TO OBTAIN FIELD DATA WAS:
 - A - TOTAL STATION - MODEL NIKON DTM 520
 - B - DATA COLLECTOR NOMAD
 - C - STEEL TAPE
 - D - PRISM, ROD AND COMPASS

LEYENDA:

- CONCRETE STRUCTURE
- CONCRETE WALL & FENCE
- WATER BOX
- KILOMETER
- STORM SEWER CURB INLET
- SANITARY OR STORM SEWER MANHOLE
- WATER VALVE
- CATCH BASIN
- PALM
- BOUNDARY POINT
- TREE
- WHEELCHAIR RAMP
- ELECTRICAL POLE WITH TRANSFORMER
- LUMINARY POLE
- TRAFFIC SIGN
- TRAFFIC DIRECTION
- CHAIN-LINK FENCE
- ELECTRICAL LINE
- GUARD RAIL
- BOUNDARY LINE

CONTROL STATIONS				
STATION	(Y) NORTH	(X) EAST	ELEVATION	DESCRIPTION
1	256970.8240	211626.2650	139.19	CLAVO PK
2	256934.7680	211697.3140	139.24	CLAVO PK

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - SURVEY AND TOPOGRAPHICAL WORK
 SCALE: 1:10

APPLIED ENGINEERING GROUP
 MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
 10 St. Montecarlo Avenue #846 Rio Piedras, PR 00924
 P.O. Box 361298 San Juan, Puerto Rico 00936-1298
 Phone: 787-771-5831 / 787-771-5869 Fax: 787-771-8079 www.aegpr.com

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ISSUE FOR REVIEW 30%	MAY 12, 2023 1
ISSUE FOR REVIEW 60%	AUG 25, 2023 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

EXISTING CONDITIONS SURVEY & TOPOGRAPHICAL WORK

IMPROVEMENTS PROJECT COROZAL SPORTS COMPLEX PR-CRP-000883 MUNICIPALITY OF COROZAL

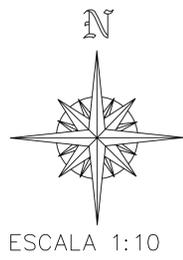
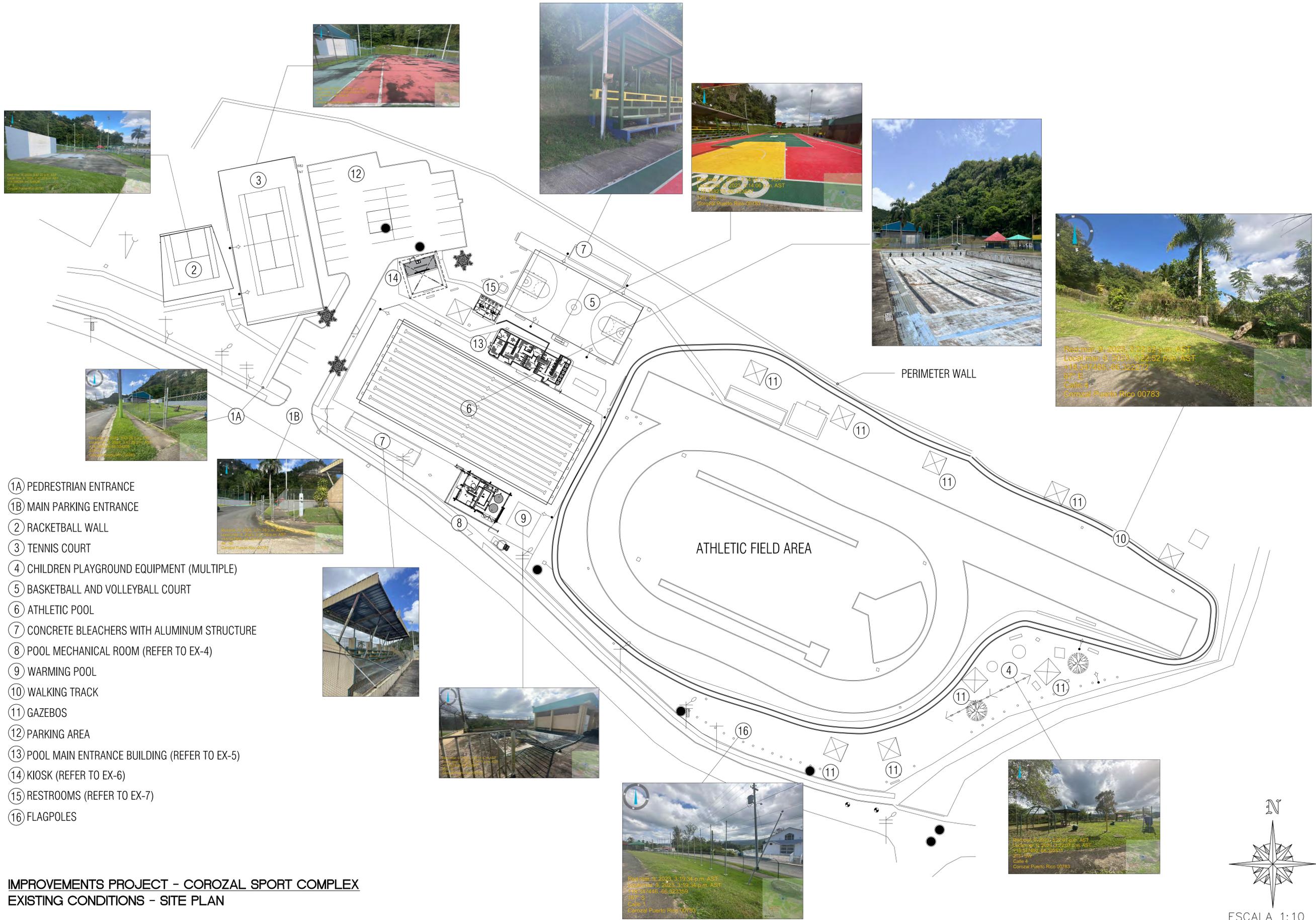
AS-BUILT PLAN
 EXST. COND.

DATE: APRIL 2024
 DWG. SHEET: **ST-1**

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- ①A PEDRESTRIAN ENTRANCE
- ①B MAIN PARKING ENTRANCE
- ② RACKETBALL WALL
- ③ TENNIS COURT
- ④ CHILDREN PLAYGROUND EQUIPMENT (MULTIPLE)
- ⑤ BASKETBALL AND VOLLEYBALL COURT
- ⑥ ATHLETIC POOL
- ⑦ CONCRETE BLEACHERS WITH ALUMINUM STRUCTURE
- ⑧ POOL MECHANICAL ROOM (REFER TO EX-4)
- ⑨ WARMING POOL
- ⑩ WALKING TRACK
- ⑪ GAZEBOS
- ⑫ PARKING AREA
- ⑬ POOL MAIN ENTRANCE BUILDING (REFER TO EX-5)
- ⑭ KIOSK (REFER TO EX-6)
- ⑮ RESTROOMS (REFER TO EX-7)
- ⑯ FLAGPOLES

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
EXISTING CONDITIONS - SITE PLAN



REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MAY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEP 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

EXISTING CONDITIONS
SITE PLAN

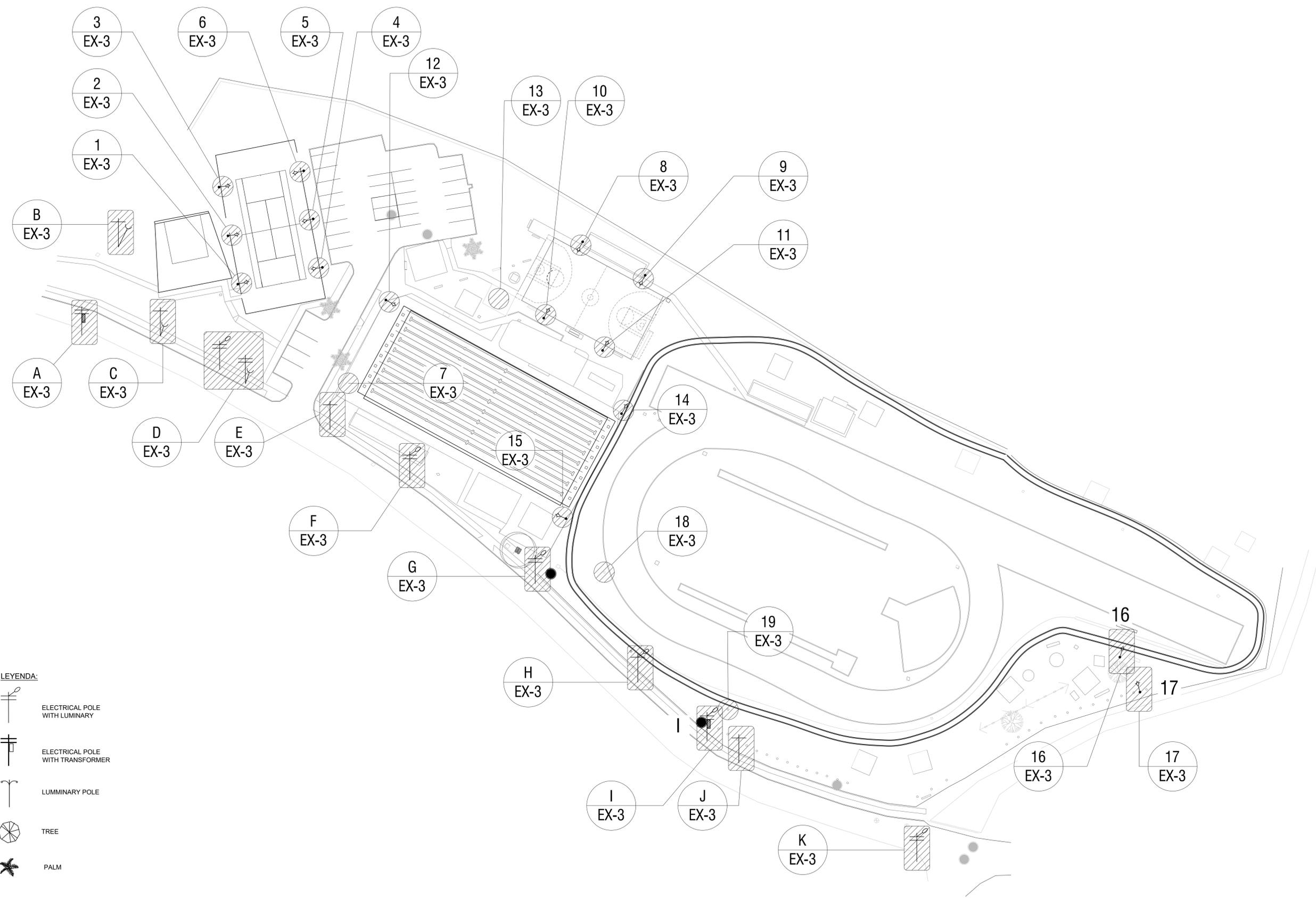
IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY

PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

SITE PLAN
EXIST. COND.

DATE
APRIL 2024
DWG. SHEET
EX-1

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- LEYENDA:
-  ELECTRICAL POLE WITH LUMINARY
 -  ELECTRICAL POLE WITH TRANSFORMER
 -  LUMINARY POLE
 -  TREE
 -  PALM

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - SITE LIGHTING AND POWER DISTRIBUTION
 SCALE: 1/32" = 1'-0"

REVISIONS	DATE
ISSUE FOR REVIEW 30%	AUG.03.2023 1
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EXISTING CONDITIONS
SITE LIGHTING AND POWER
DISTRIBUTION AS-BUILT

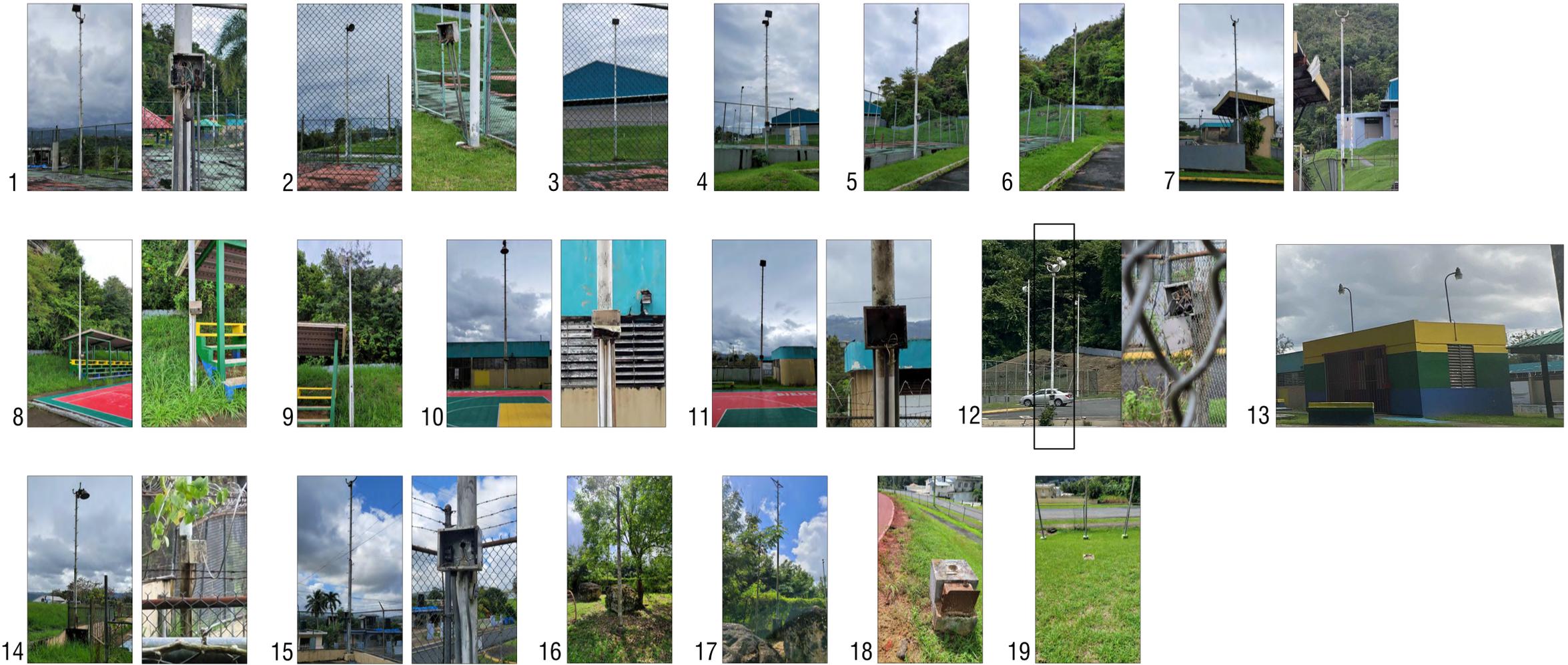
IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
 MUNICIPALITY OF COROZAL

AS-BUILT
 EXST. COND.

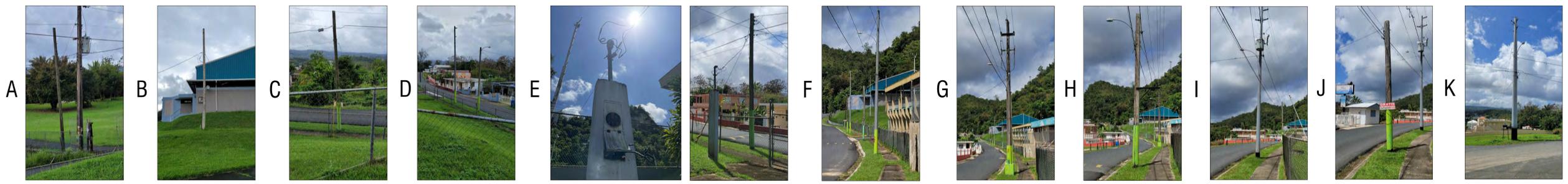
DATE	APRIL 2024
DRWG. SHEET	EX-2

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PARK LIGHTING POLES



STREET LIGHTING POLES



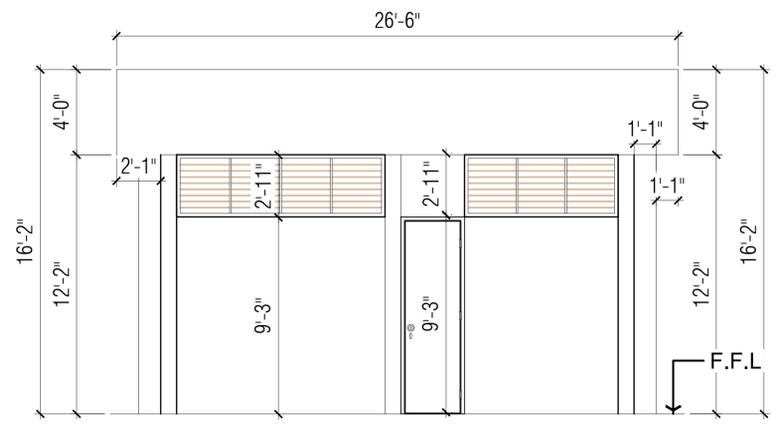
IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
 EXISTING CONDITIONS - POLES AND LUMINARIES LOCATIONS
 NTS

REVISIONS	DATE
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REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

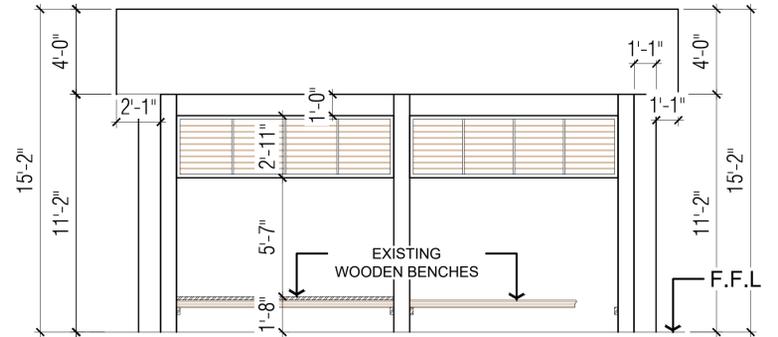
EXISTING CONDITIONS
 SITE LIGHTING AND POWER
 DISTRIBUTION DETAILS

IMPROVEMENTS PROJECT
 COROZAL SPORTS COMPLEX
 PR-CRP-000883
 MUNICIPALITY OF COROZAL

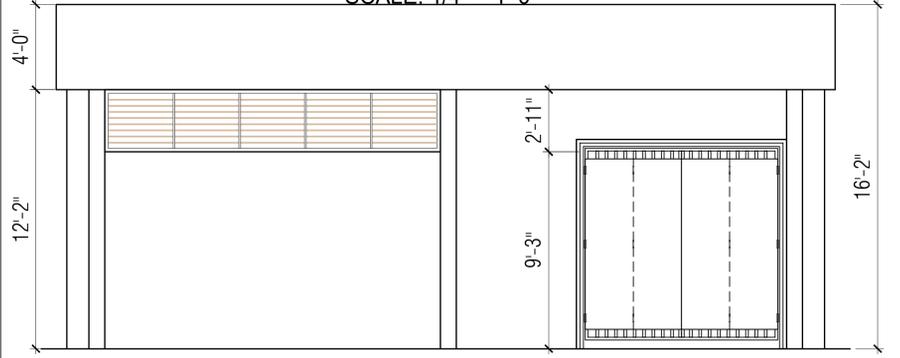
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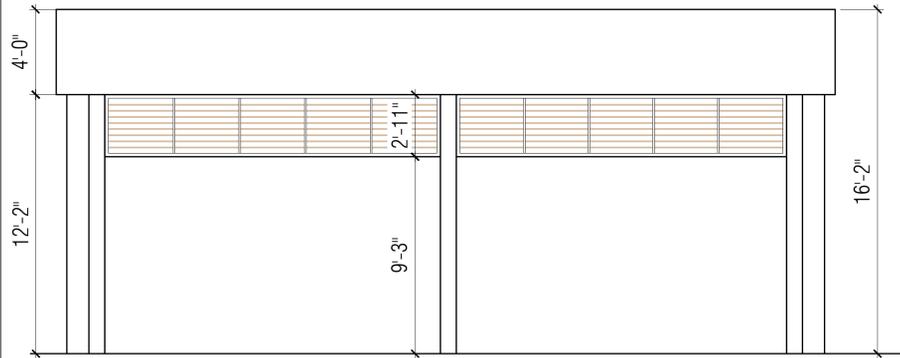
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SCALE: 1/4" = 1'-0"



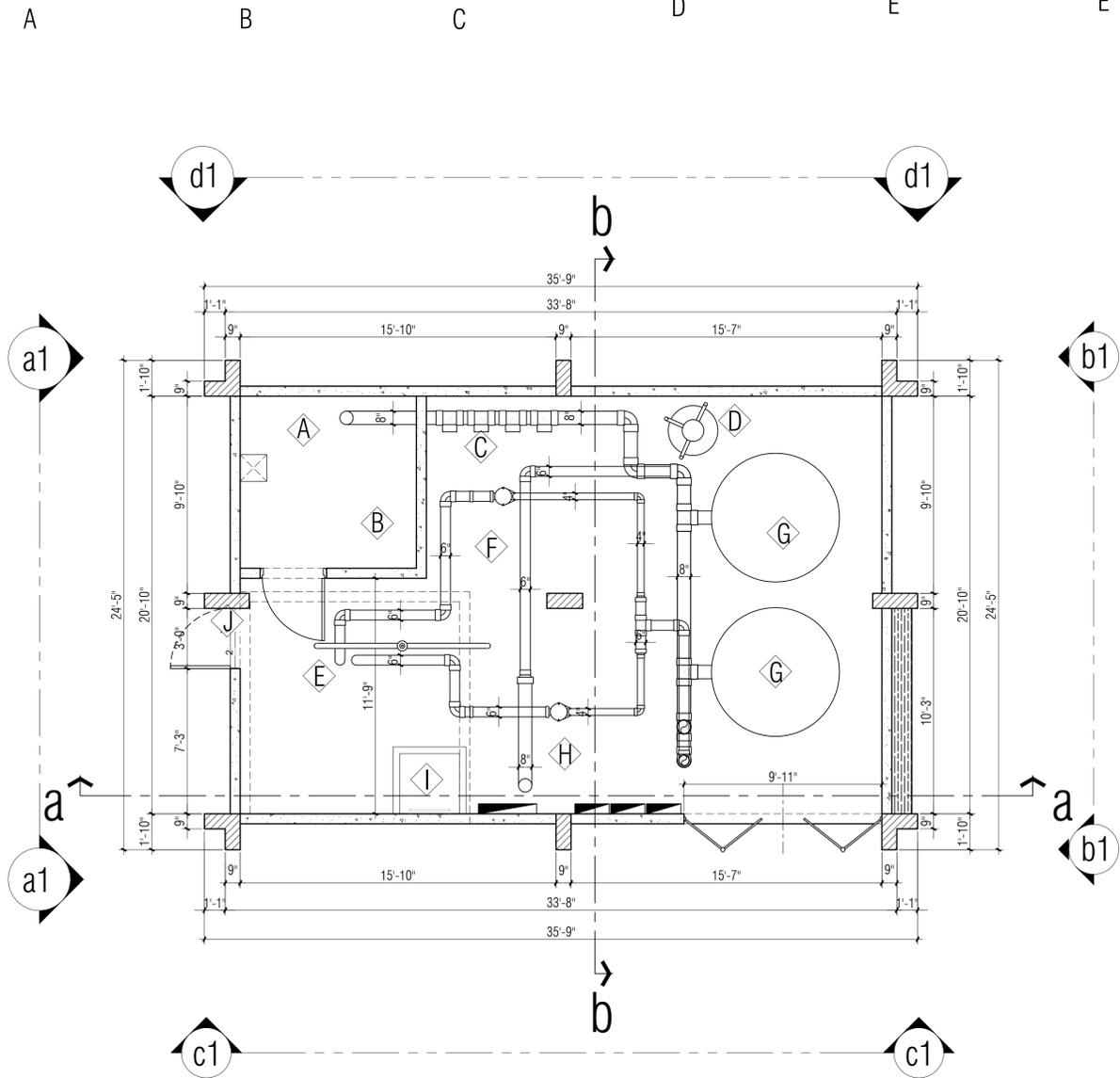
ELEVATION "b1"
SCALE: 1/4" = 1'-0"



ELEVATION "c1"
SCALE: 1/4" = 1'-0"



ELEVATION "d1"
SCALE: 1/4" = 1'-0"



MECHANICAL ROOM FLOOR PLAN
SCALE: 1/4" = 1'-0"

- LEGEND**
- WATER FAUCET
 - 3" FLOOR DRAIN
 - 6" FLOOR DRAIN



F



G



G



H



I

GENERAL NOTES

REFER TO DEMOLITION AND SITE SET SHEETS FOR REQUIRED INSTRUCTIONS FOR WORK TO BE DONE IN THIS DRAWING SET

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - POOL MECHANICAL ROOM
SCALE: 3/8" = 1'-0"

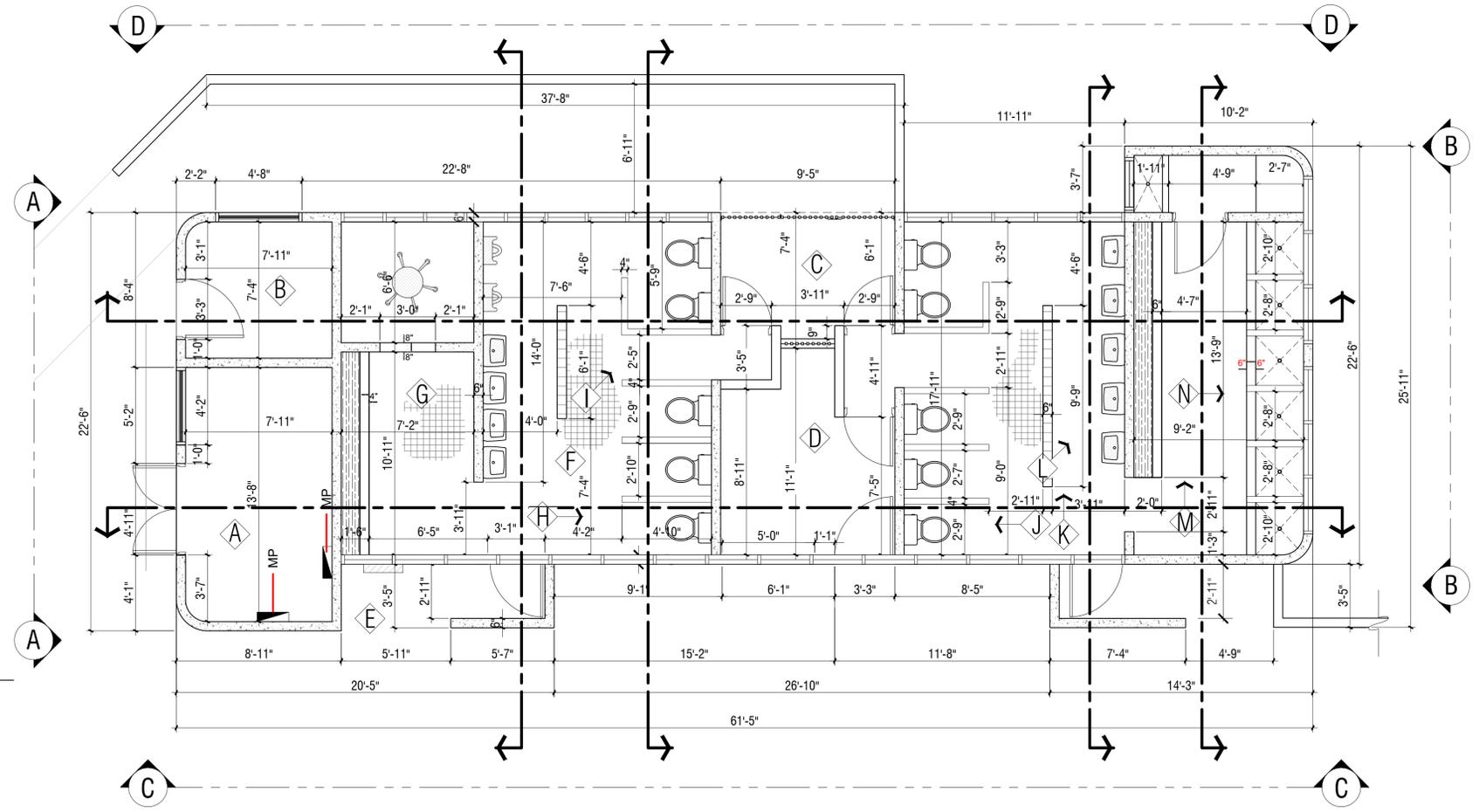
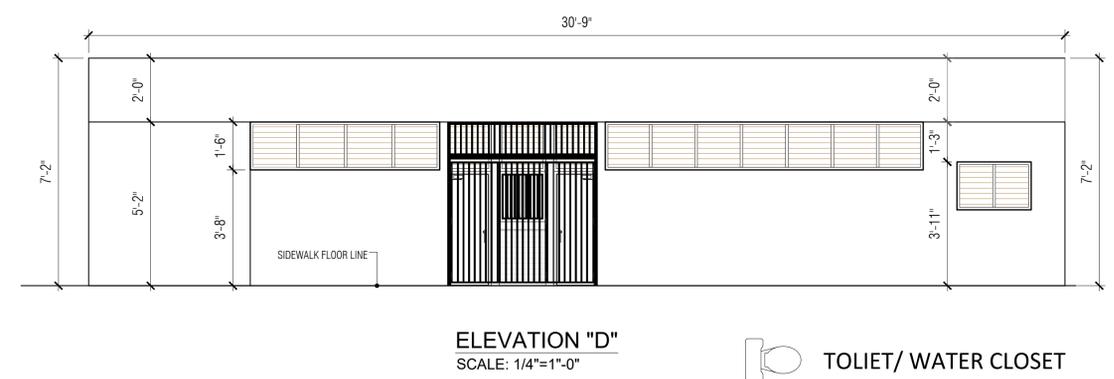
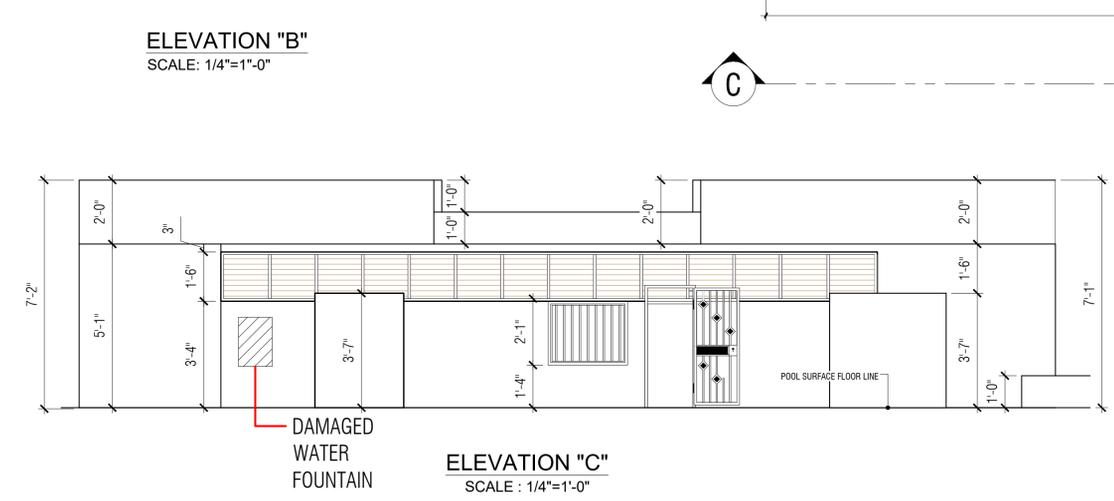
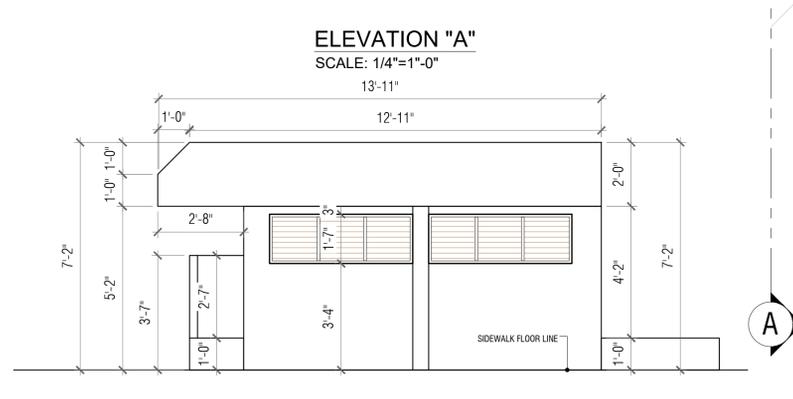
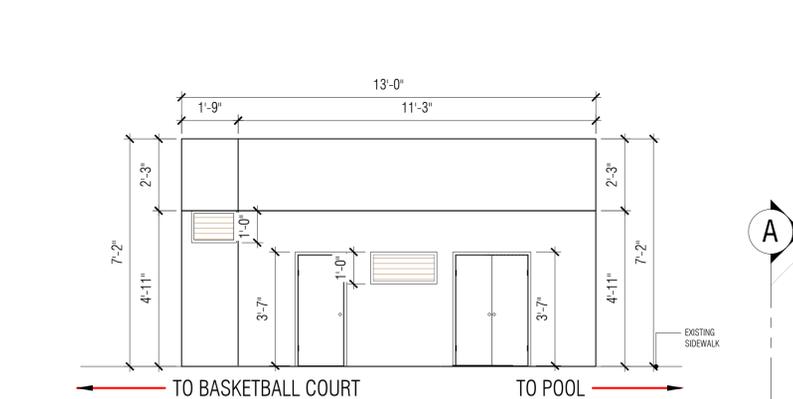
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EXISTING CONDITIONS
ITEM 8 MECHANICAL ROOM
AS-BUILT

IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

PLUMBING
AS-BUILT

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IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - POOL MAIN ENTRANCE BUILDING
SCALE: 3/8" = 1'-0"

GENERAL NOTES
REFER TO DEMOLITION AND SITE SET SHEETS FOR REQUIRED INSTRUCTIONS FOR WORK TO BE DONE IN THIS DRAWING SET

- TOLIET/ WATER CLOSET
- HAND SINK/LAVATORY
- 3" FLOOR DRAIN
- BATHROOM FLOOR/WALL TILE

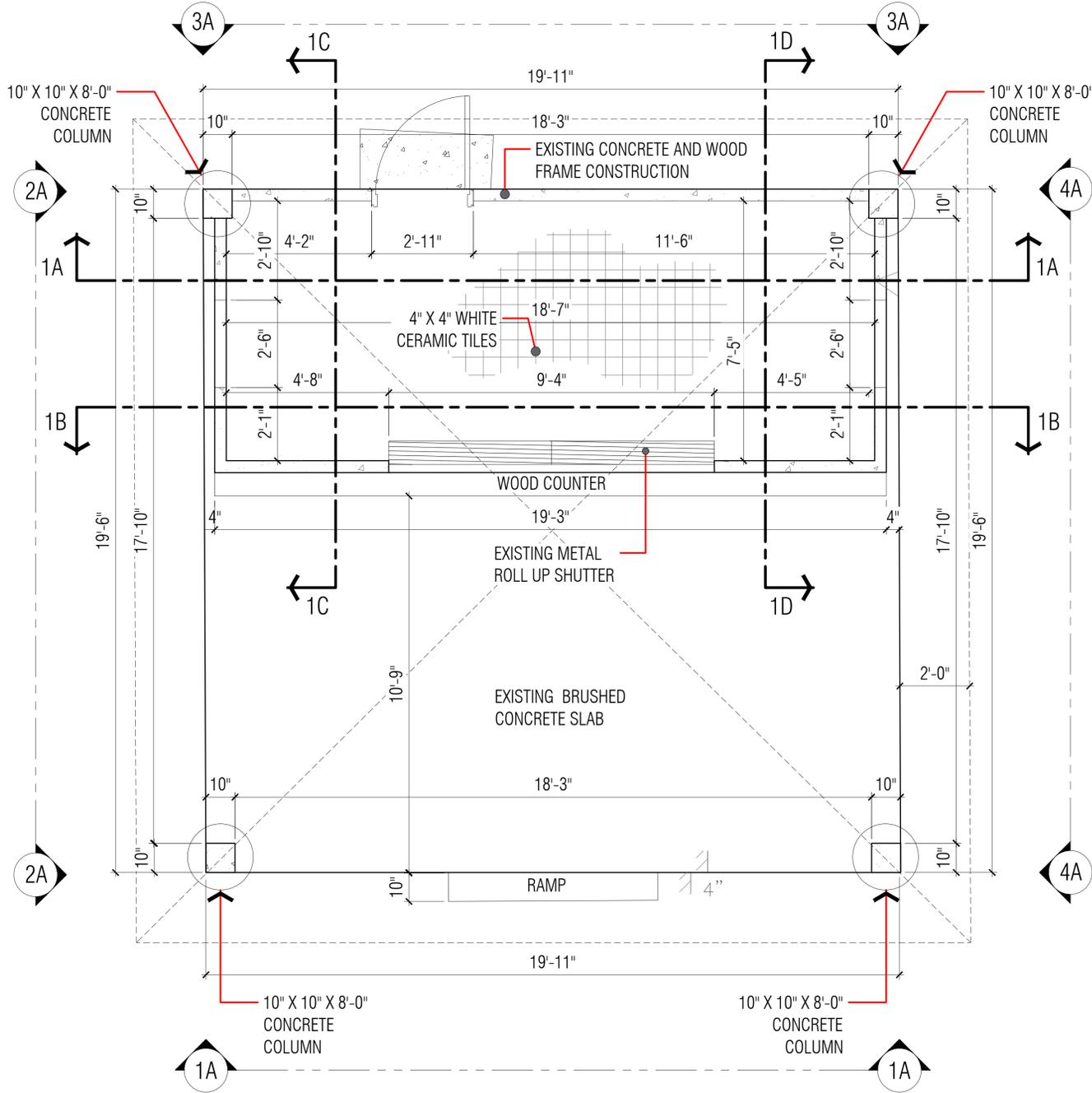
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REVISION	DATE / 3
REVISION	DATE / 4
REVISION	DATE / 5
REVISION	DATE / 6
REVISION	DATE / 7

EXISTING CONDITIONS
ITEM 13 POOL MAIN ENTRANCE
BUILDING AS-BUILT

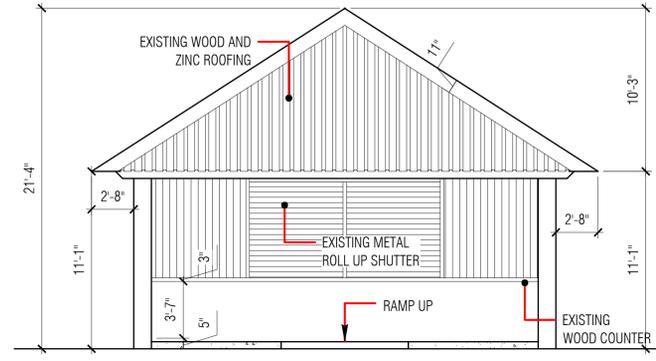
IMPROVEMENT PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

PHASE
EXIST. COND
AS- BUILT

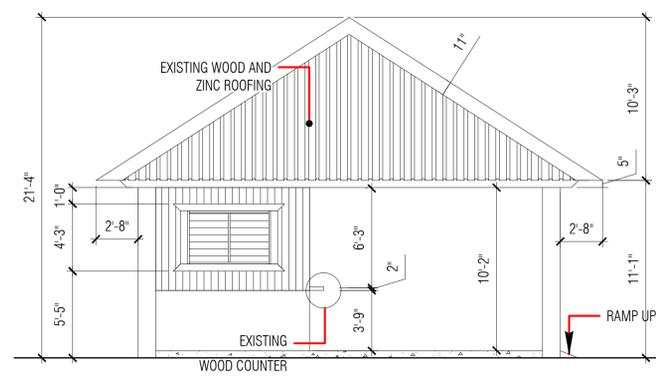
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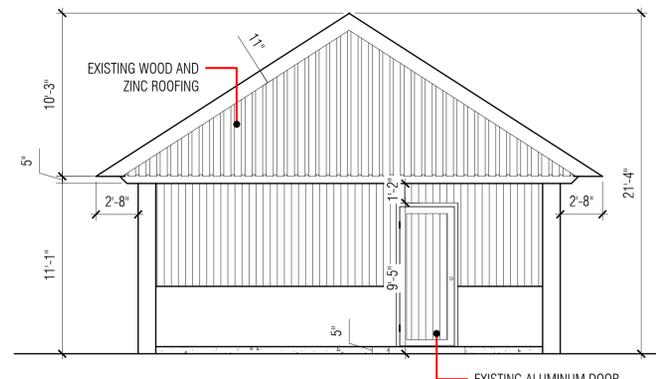
OUTDOOR KIOSK FLOOR PLAN
SCALE: 3/8"=1'-0"



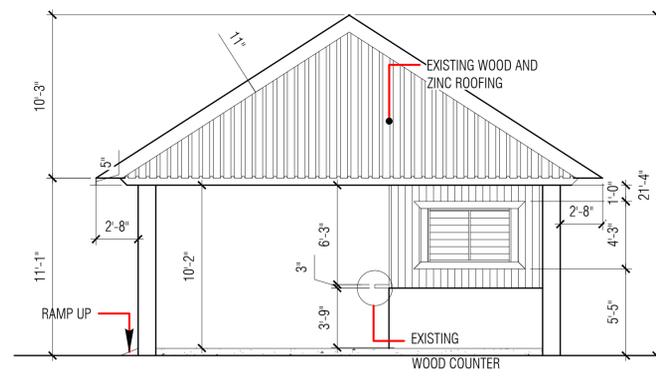
ELEVATION 1A
SCALE: 1/4"=1'-0"



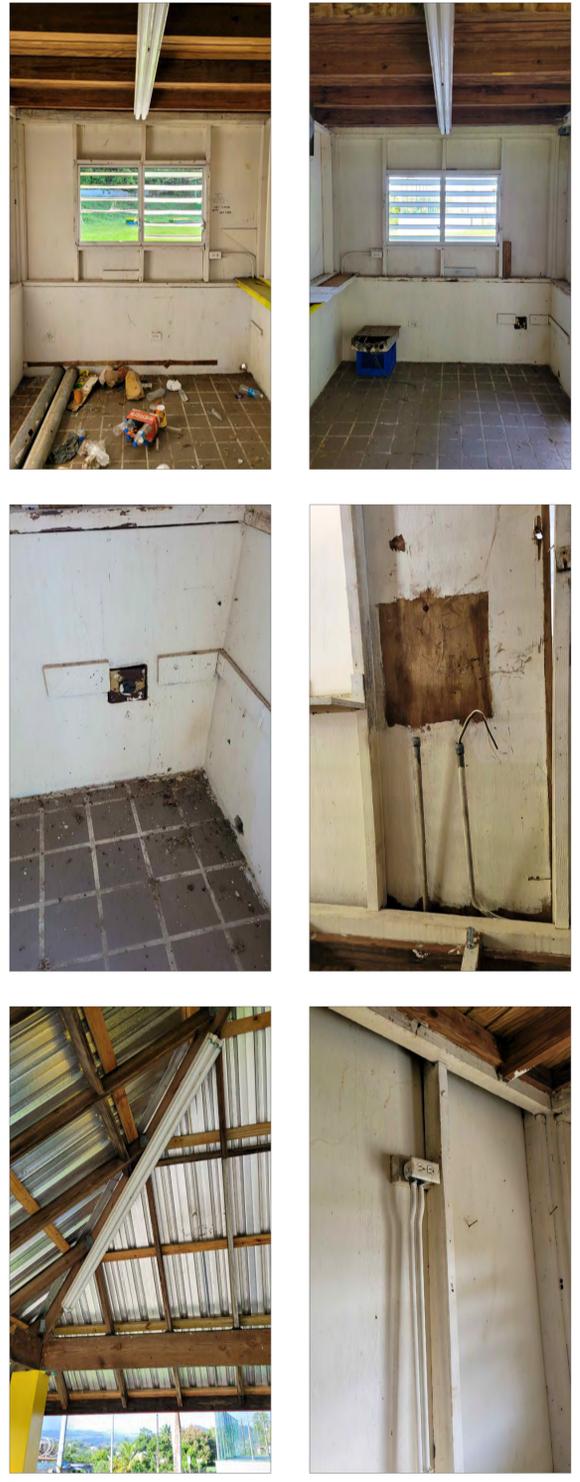
ELEVATION 2A
SCALE: 1/4"=1'-0"



ELEVATION 3A
SCALE: 1/4"=1'-0"



ELEVATION 4A
SCALE: 1/4"=1'-0"



GENERAL NOTES
REFER TO DEMOLITION AND SITE SET SHEETS FOR REQUIRED INSTRUCTIONS FOR WORK TO BE DONE IN THIS DRAWING SET

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - KIOSK
SCALE: AS NOTED

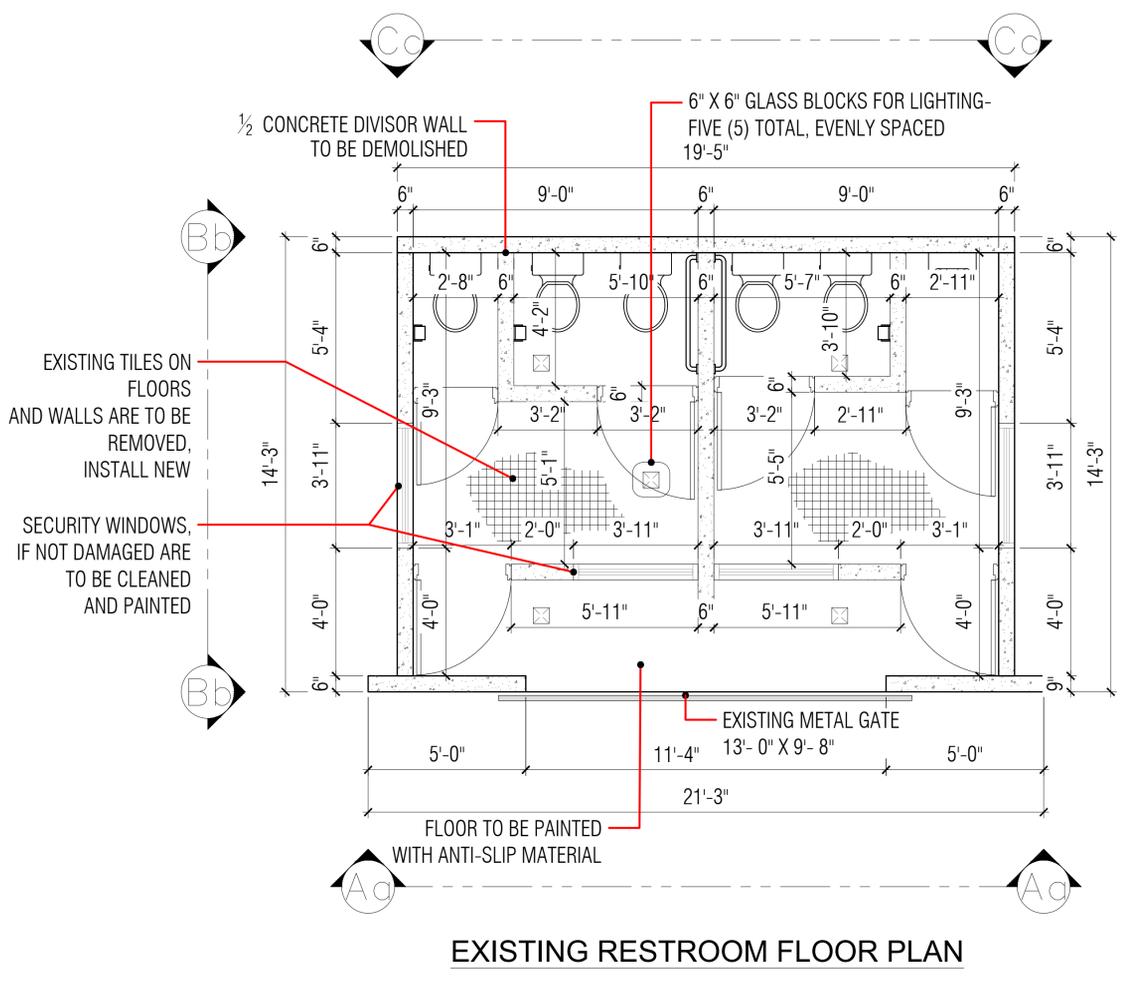
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REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
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EXISTING CONDITIONS
ITEM 14 KIOSK
AS-BUILT

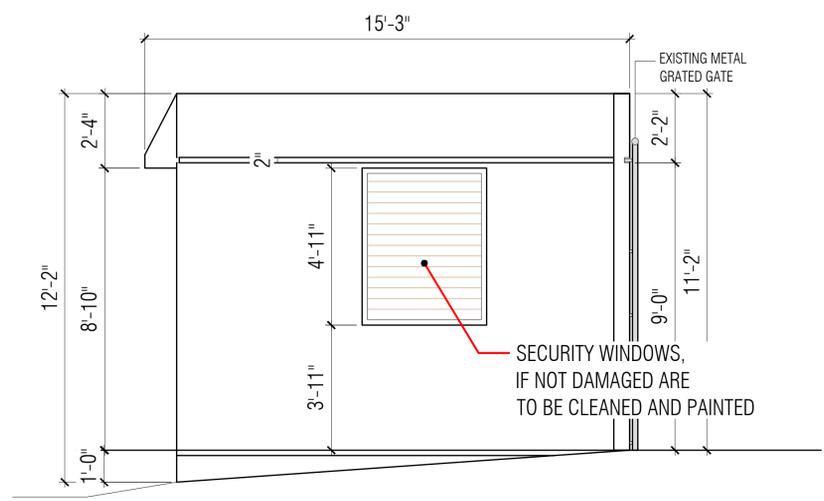
IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

AS-BUILT
EXST. COND.

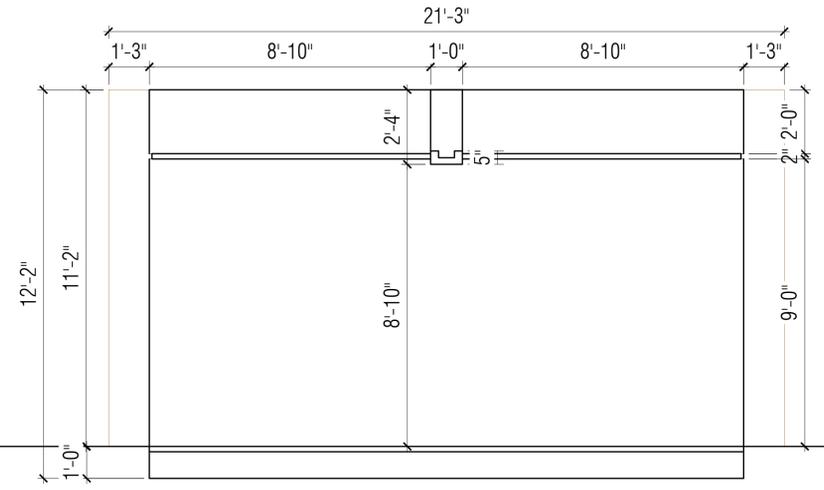
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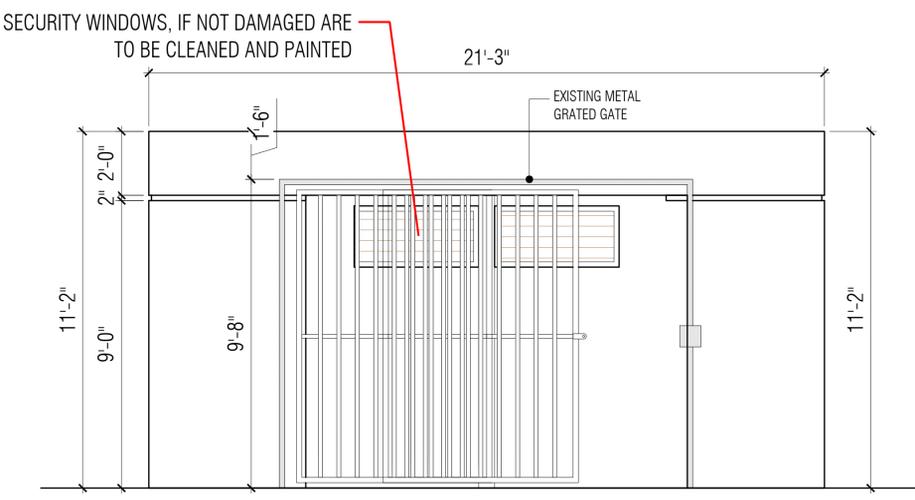
EXISTING RESTROOM FLOOR PLAN



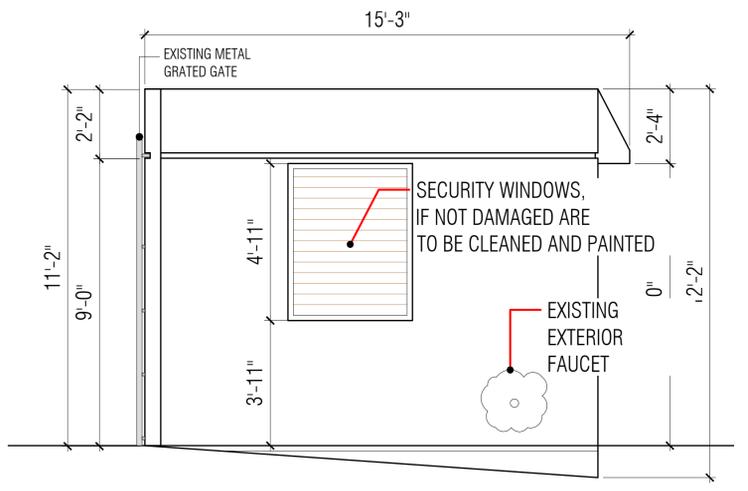
ELEVATION "Bb"



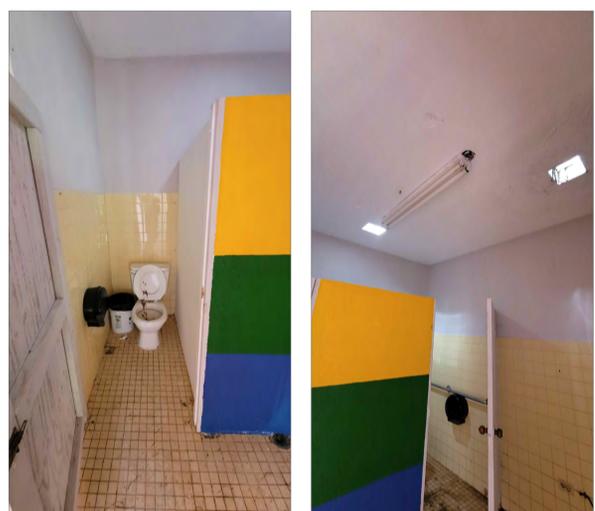
ELEVATION "Cc"



ELEVATION "Aa"



ELEVATION "Dd"



GENERAL NOTES
REFER TO DEMOLITION AND SITE SET SHEETS FOR REQUIRED INSTRUCTIONS FOR WORK TO BE DONE IN THIS DRAWING SET

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - RESTROOMS
SCALE: 3/8" = 1'-0"

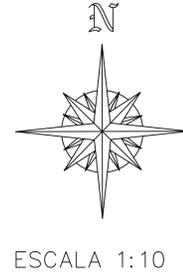
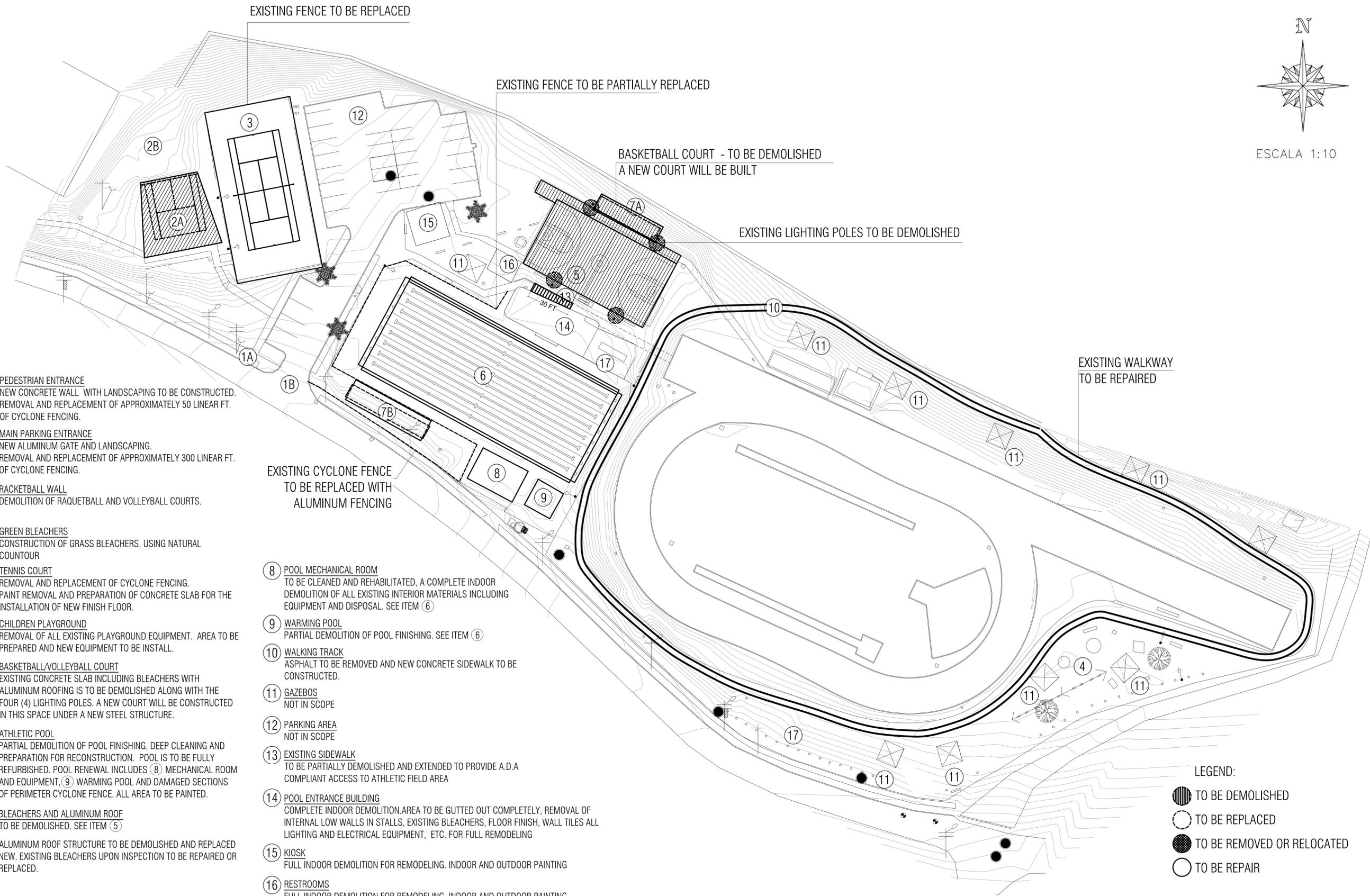
REVISIONS	DATE
ISSUE FOR REVIEW, 30%	AUG. 01, 2023, 1
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REVISION	DATE, 3
REVISION	DATE, 4
REVISION	DATE, 5
REVISION	DATE, 6
REVISION	DATE, 7

EXISTING CONDITIONS
ITEM 15 RESTROOM
AS-BUILT

IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

AS-BUILT
EXST. COND.

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- 1A PEDESTRIAN ENTRANCE
NEW CONCRETE WALL WITH LANDSCAPING TO BE CONSTRUCTED.
REMOVAL AND REPLACEMENT OF APPROXIMATELY 50 LINEAR FT.
OF CYCLONE FENCING.
- 1B MAIN PARKING ENTRANCE
NEW ALUMINUM GATE AND LANDSCAPING.
REMOVAL AND REPLACEMENT OF APPROXIMATELY 300 LINEAR FT.
OF CYCLONE FENCING.
- 2A RACKETBALL WALL
DEMOLITION OF RAQUETBALL AND VOLLEYBALL COURTS.

- 2B GREEN BLEACHERS
CONSTRUCTION OF GRASS BLEACHERS, USING NATURAL
COUNTOUR
- 3 TENNIS COURT
REMOVAL AND REPLACEMENT OF CYCLONE FENCING.
PAINT REMOVAL AND PREPARATION OF CONCRETE SLAB FOR THE
INSTALLATION OF NEW FINISH FLOOR.
- 4 CHILDREN PLAYGROUND
REMOVAL OF ALL EXISTING PLAYGROUND EQUIPMENT. AREA TO BE
PREPARED AND NEW EQUIPMENT TO BE INSTALL.
- 5 BASKETBALL/VOLLEYBALL COURT
EXISTING CONCRETE SLAB INCLUDING BLEACHERS WITH
ALUMINUM ROOFING IS TO BE DEMOLISHED ALONG WITH THE
FOUR (4) LIGHTING POLES. A NEW COURT WILL BE CONSTRUCTED
IN THIS SPACE UNDER A NEW STEEL STRUCTURE.
- 6 ATHLETIC POOL
PARTIAL DEMOLITION OF POOL FINISHING, DEEP CLEANING AND
PREPARATION FOR RECONSTRUCTION. POOL IS TO BE FULLY
REFURBISHED. POOL RENEWAL INCLUDES 8 MECHANICAL ROOM
AND EQUIPMENT, 9 WARMING POOL AND DAMAGED SECTIONS
OF PERIMETER CYCLONE FENCE. ALL AREA TO BE PAINTED.

- 7A BLEACHERS AND ALUMINUM ROOF
TO BE DEMOLISHED. SEE ITEM 5
- 7B ALUMINUM ROOF STRUCTURE TO BE DEMOLISHED AND REPLACED
NEW. EXISTING BLEACHERS UPON INSPECTION TO BE REPAIRED OR
REPLACED.

- 8 POOL MECHANICAL ROOM
TO BE CLEANED AND REHABILITATED, A COMPLETE INDOOR
DEMOLITION OF ALL EXISTING INTERIOR MATERIALS INCLUDING
EQUIPMENT AND DISPOSAL. SEE ITEM 6
- 9 WARMING POOL
PARTIAL DEMOLITION OF POOL FINISHING. SEE ITEM 6
- 10 WALKING TRACK
ASPHALT TO BE REMOVED AND NEW CONCRETE SIDEWALK TO BE
CONSTRUCTED.
- 11 GAZEBO
NOT IN SCOPE
- 12 PARKING AREA
NOT IN SCOPE
- 13 EXISTING SIDEWALK
TO BE PARTIALLY DEMOLISHED AND EXTENDED TO PROVIDE A.D.A
COMPLIANT ACCESS TO ATHLETIC FIELD AREA
- 14 POOL ENTRANCE BUILDING
COMPLETE INDOOR DEMOLITION. AREA TO BE GUTTED OUT COMPLETELY, REMOVAL OF
INTERNAL LOW WALLS IN STALLS, EXISTING BLEACHERS, FLOOR FINISH, WALL TILES ALL
LIGHTING AND ELECTRICAL EQUIPMENT, ETC. FOR FULL REMODELING
- 15 KIOSK
FULL INDOOR DEMOLITION FOR REMODELING. INDOOR AND OUTDOOR PAINTING
- 16 RESTROOMS
FULL INDOOR DEMOLITION FOR REMODELING. INDOOR AND OUTDOOR PAINTING
- 17 ELECTRICAL ENCLOSURE
TO BE REMOVED AND AREA TO BE CLEANED.

- LEGEND:
- TO BE DEMOLISHED
 - TO BE REPLACED
 - TO BE REMOVED OR RELOCATED
 - TO BE REPAIR

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
DEMOLITION PLAN PROJECT SITE
 SCALE 1:2

APPLIED ENGINEERING GROUP
 MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
 10 St. Montecarlo Avenue #666 Rio Piedras, PR 00924
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 OFFICE: 787-771-8071 / 787-771-5089 / Fax: 787-771-5079 AEG.com

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MAY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEPT 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

EXISTING CONDITIONS
DEMOLITION PLAN
PROJECT SITE

IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY

PR-CPP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

PHASE
DEMOLITION PLAN
 EXIST. COND.

DATE
 APRIL 2024

DRWG. SHEET
 DP-1

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DEMOLITION NOTES - GENERAL INSTRUCTIONS:

1. THIS IS A PARTIAL DEMOLITION PROJECT ON WHICH SITE ELEMENTS AND UTILITIES WILL BE DEMOLISHED, REMOVED AND RECYCLED AFTER ENVIRONMENTALLY HAZARDOUS MATERIALS ABATEMENT, IF APPLICABLE HAS BEEN COMPLETED AND CERTIFIED BY CONCERNED AUTHORITIES. SEE DRAWINGS FOR UTILITIES TO REMAIN.

2. LOCATED, IDENTIFY AND STUB OFF AND DISCONNECT UTILITY SERVICES THAT ARE NOT INDICATED TO REMAIN.

3. PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER. USE SUCH METHODS AS REQUIRED TO COMPLETE WORK ON AREAS MARKED IN DRAWINGS FOR DEMOLITION, IN ACCORDANCE WITH DEMOLITION SCHEDULE AND GOVERNING REGULATIONS.

4. DEMOLISH, SHRED ALL CONCRETE AND MASONRY IN SMALL SECTIONS AND DISPOSE OF THE MATERIAL. CUT CONCRETE AND MASONRY AT JUNCTURES WITH CONSTRUCTION TO REMAIN USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; USE POWER-DRIVEN IMPACT TOOLS ONLY WHEN ABSOLUTELY IF NECESSARY. ANY CONCRETE THAT CAN BE RECYCLED SHALL BE RECYCLED TO PRODUCE AN AASHTO MINIMUM CLASSIFICATION OF A - 2 - 4 SUB-BASE GRAVEL OR BETTER.

5. ANY ASPHALT THAT CAN BE RECYCLED SHALL BE RECYCLED AND REUSED ON SITE.

6. FOR INTERIOR SLABS ON GRADE AND WALLS, USE REMOVAL METHODS THAT WILL NOT CRACK OR STRUCTURALLY DISTURB ADJACENT SLABS OR PARTITIONS. USE POWER SAW WHERE POSSIBLE.

7. 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.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICTED 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 ITS ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE AND OWNER'S SATISFACTION AT NO ADDITIONAL COST TO OWNER.

9. CONTRACTOR SHALL CEASE OPERATIONS AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT STRUCTURE UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS.

10. 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 RELEASE OF LEAD CONTAINING DUST WHERE APPLICABLE INTO THE AIR AND SOIL.

11. 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.

12. 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.

13. THE CONTRACTOR SHALL SUBMIT, PROCURE AND OBTAIN ALL NECESSARY DOCUMENTS AND PERMITS FROM THE OGP AND ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO, SOLID WASTE AUTHORITY AND EPA, IN ORDER TO PROCEED WITH CONTRACTED WORK.

14. CONTRACTOR MUST MAINTAIN IN FULL FORCE ALL EXISTING PROJECT PERMITS AND / OR SUBMIT AND OBTAIN NEW THE NEW PERMITS AT HIS OWN COST.

15. 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.

16. 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.

17. 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.

18. 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.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND DISPOSITION OF GARBAGE & RECYCLING DUMPSTERS DURING DEMOLITION AND CONSTRUCTION WORKS.

20. 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.

21. THE CONTRACTOR MUST REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

DEMOLITION NOTES - ELECTRICAL WORKS:

1. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AND MATERIALS FROM AREAS TO BE REMODELED TAKING CARE THAT CIRCUITS THAT ARE TO BE KEPT ENERGIZED ARE COORDINATED TO MAINTAIN THESE SERVICES.

2. EXISTING CIRCUITS AFFECTED BY THIS REMODELING SHALL BE CHECKED SO THAT THEY ARE LEFT WITHOUT SHORTS AND FREE FROM ANY DEFECTS.

3. IN AREAS REMODELED, CONTRACTOR SHALL REMOVE ALL CONDUITS NOT EMBEDDED IN CONCRETE. CONDUITS EMBEDDED IN CONCRETE THAT ARE ABANDONED SHALL BE LEFT WITHOUT ANY CONDUCTORS.

4. ALL BOXES SHALL BE PROVIDED WITH BLANK PLATES.

5. CONTRACTOR MUST VERIFY THAT PANELBOARDS INSTALLATION COMPLIES WITH NEC REQUIREMENTS AND THAT IT HAS ALL PROTECTIVE COVERS, DOORS AND BREAKERS SPACES COVERS TO AVOID ANY EXPOSURE TO LIVE PARTS

DEMOLITION NOTES - SAFETY AND HEALTH PRECAUTIONS

1. CONTRACTOR SHALL PROVIDE A RISK FREE ENVIRONMENT FOR ALL EMPLOYEES AND THEIR SURROUNDING. HE MUST GUARANTEE THE SAFETY AND HEALTH OF ALL EMPLOYEES, SUBCONTRACTORS AND VISITORS.

2. THE CONTRACTOR SHALL PROVIDE A SAFETY AND HEALTH PLAN PRIOR TO START ANY FIELD WORK.

3. SAFETY MEASURES AND PRECAUTIONS DURING DEMOLITION/CONSTRUCTION (ALL O.S.H.A. AND E.P.A. UPDATED COMPLIANCE IS UNDER EFFECT).

4. GENERAL WORK RELATED TO THE DEMOLITION OR ALTERATION TO THE PROJECT SITE MUST BE UNDERTAKEN IN CONFORMITY WITH THIS SAFETY PLAN.

5. 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.

6. 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.

7. THE CONTRACTOR WILL PROVIDE TRAINED AND EXPERIENCED PERSONNEL TO ASSURE A JOB PROPERLY DONE AND SAFE. THE CONTRACTOR SHALL PROVIDE A HEALTH & SAFETY COORDINATOR.

8. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIRE PROTECTION IN THE WORK AND OPERATIONAL AREAS.

9. THE COROZAL SPORTS COMPLEX NOR ANY OF ITS ADJOINING FACILITIES CANNOT BE USED FOR THE STORAGE OF CONSTRUCTION OR COMBUSTIBLE MATERIAL.

10. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS FOR THE ENTIRE DEMOLITION / CONSTRUCTION AREA.

11. ALL HEAVY EQUIPMENT SHOULD HAVE ITS OWN FIRE EXTINGUISHERS OR HAVE ONE AVAILABLE IN A 100 FEET RADIUS FROM IT.

12. DURING DEMOLITION / CONSTRUCTION PERIOD FREE ACCESS TO FIRE HYDRANTS, OR TO OTHER FIRE EXTINGUISHING EQUIPMENT, SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES.

13. CONTRACTOR EMPLOYEES WILL BE REQUIRED TO DRESS PROPERLY WHILE PERFORMING THEIR JOB. EACH WORKER WILL USE APPROPRIATE WORKING SAFETY SHOES. PROPER RESPIRATORY PROTECTION WILL BE USE WHENEVER REQUIRED. PROPER HAND PROTECTION WILL BE USE WHEN REQUIRED. PROPER HEARING PROTECTION WILL BE USED IN AREAS WHERE SOUNDS ARE HIGHER THAN 80 DBS.

**IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
GENERAL NOTES - DEMOLITION PLAN**



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REVISIONS	DATE
ISSUE FOR REVIEW - 30%	APR 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEP 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

**EXISTING CONDITIONS
DEMOLITION PLAN
GENERAL NOTES**

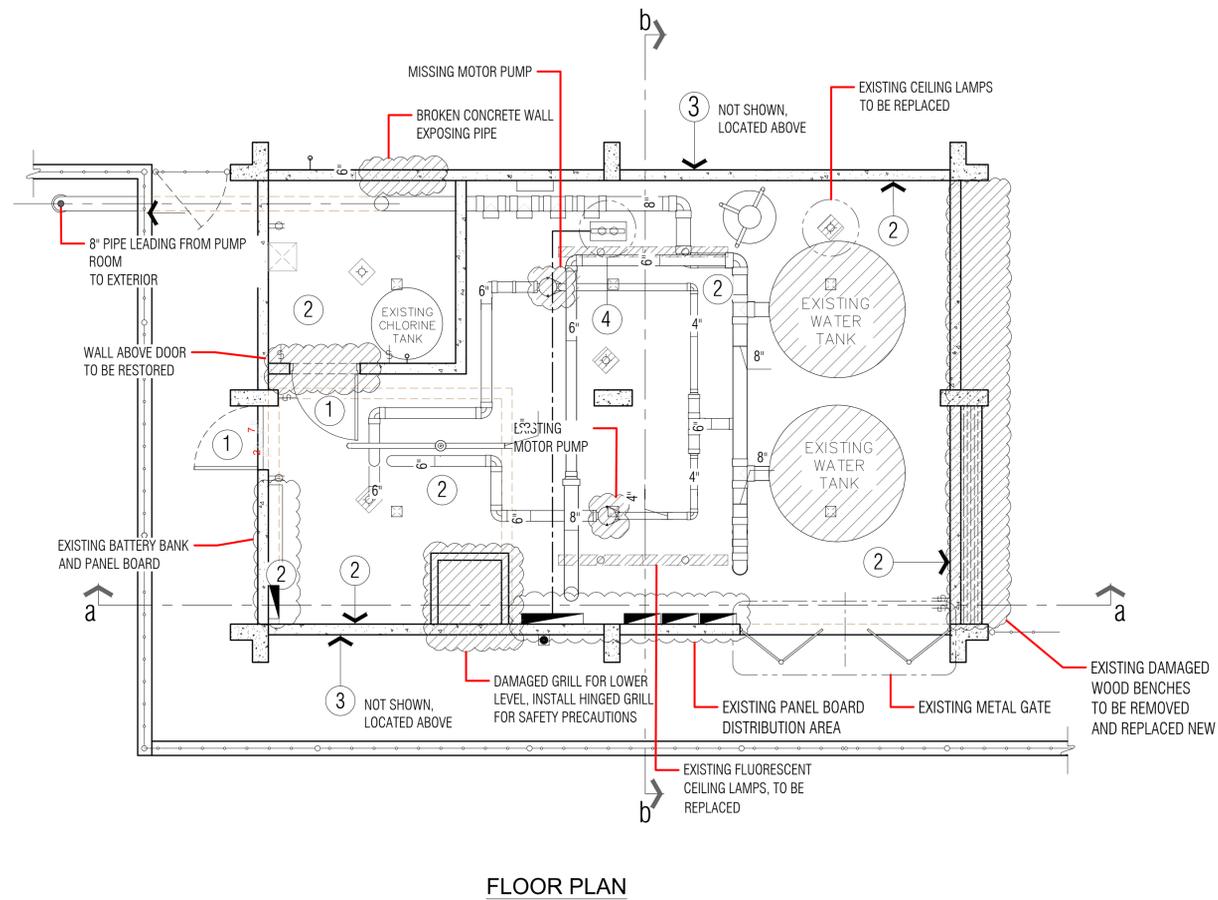
**IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY**

PR-CPP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

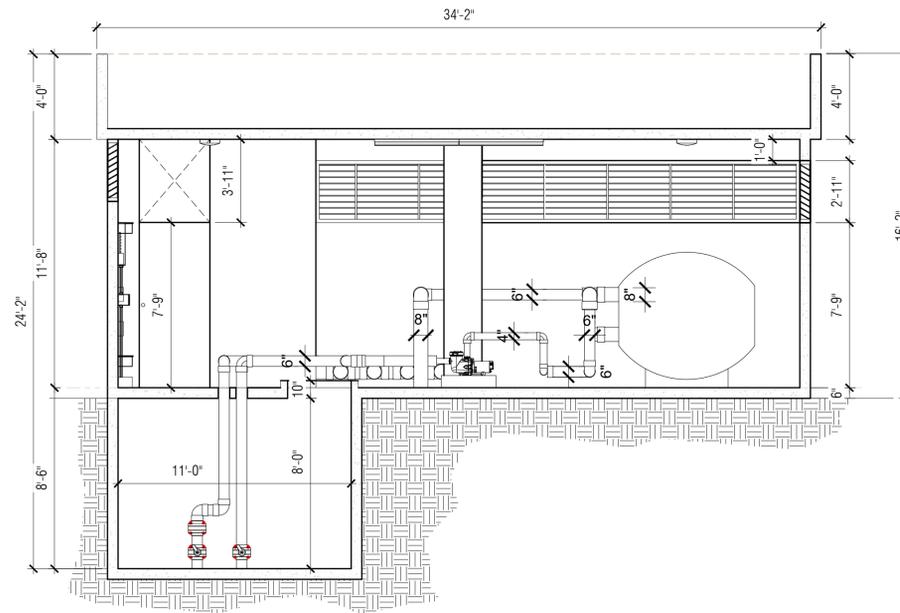
**DEMOLITION PLAN
EXIST. COND.**

DATE	APRIL 2024
DWG. SHEET	DP-2

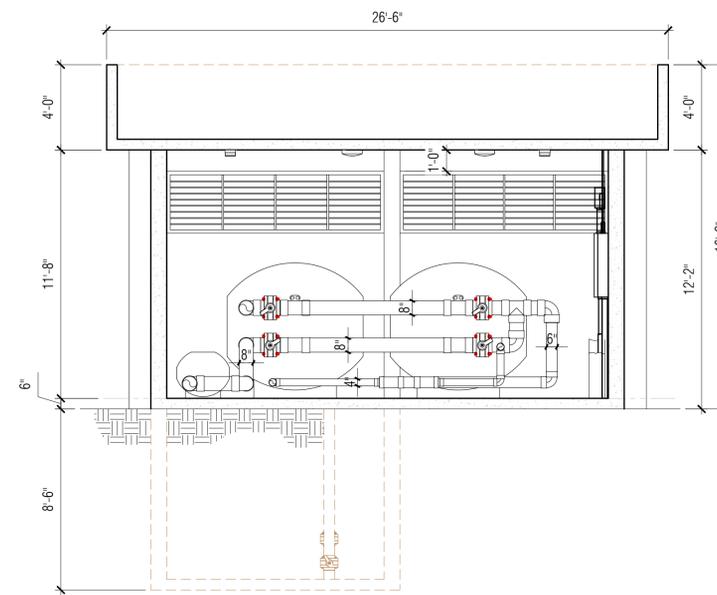
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FLOOR PLAN



SECTION "a-a"



SECTION "b-b"

GENERAL DEMOLITION NOTES

- ① SECURITY METAL DOORS TO BE REMOVED, NEW DOORS TO BE INSTALLED
- ② ALL WALLS AND FLOORS ARE TO BE CLEARED OF EXISTING MATERIALS, REFURBISHED WITH NEW PLASTER AND PAINT WHERE INDICATED
- ③ SECURITY GRILLING, FENCING AND GATES TO BE VERIFIED FOR RE-USE. SCRAPE AND REPAIR WHERE NEEDED AND PAINT
- ④ ALL LIGHTING AND PLUMBING FIXTURES ARE TO BE REPLACED AND SERVICED ACCORDINGLY

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
DEMOLITION PLAN - MECHANICAL ROOM
SCALE: 1/4" = 1'-0"

CONSULTANT

REVISIONS	DATE	ISSUE FOR REVIEW, 30%
REVISION	DATE	REVISION

EXISTING CONDITIONS
MECHANICAL ROOM PLAN VIEW
DEMOLITION PLAN

SHEET TITLE

IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

PROJECT NAME

PHASE

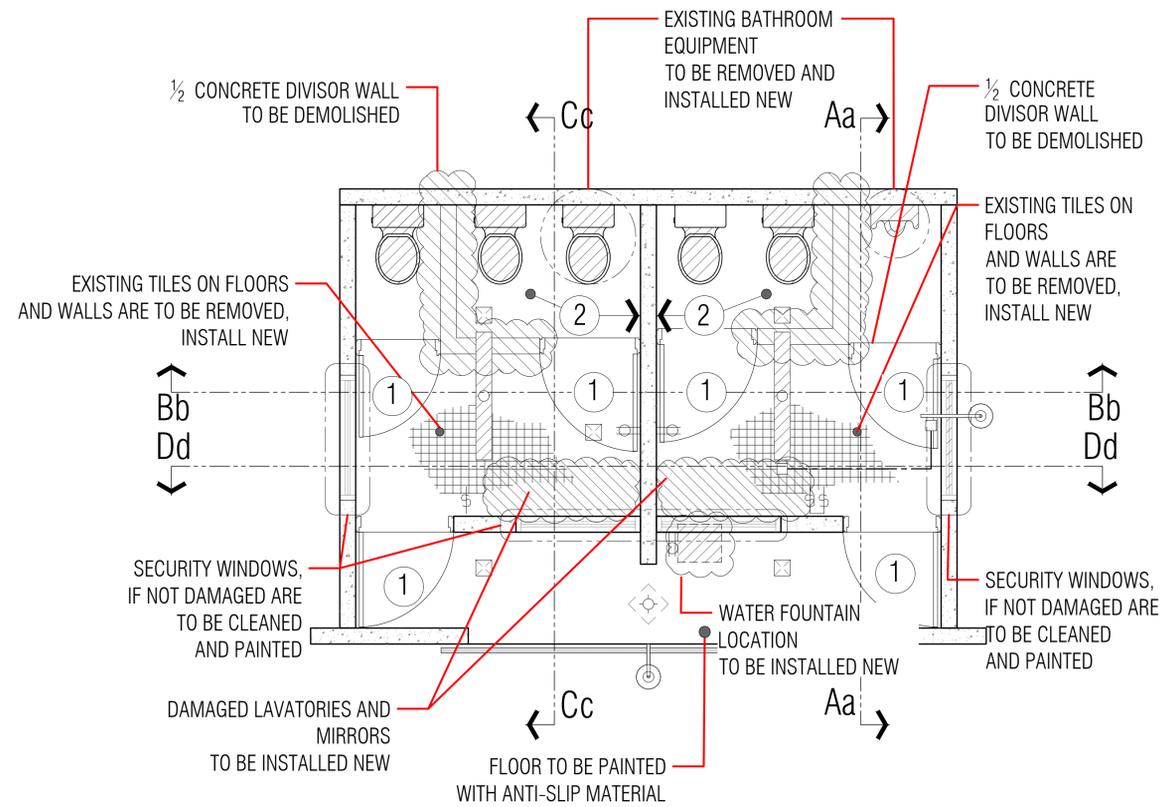
DEMOLITION
PLAN

DATE
APRIL 2024

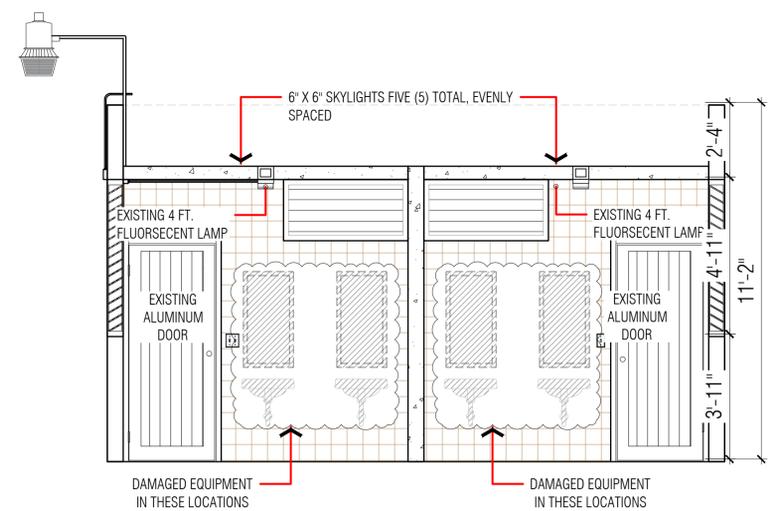
DRWG. SHEET

DP-4

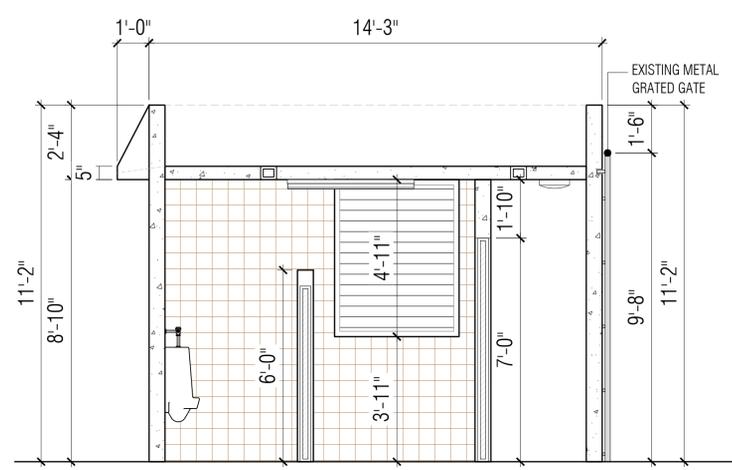
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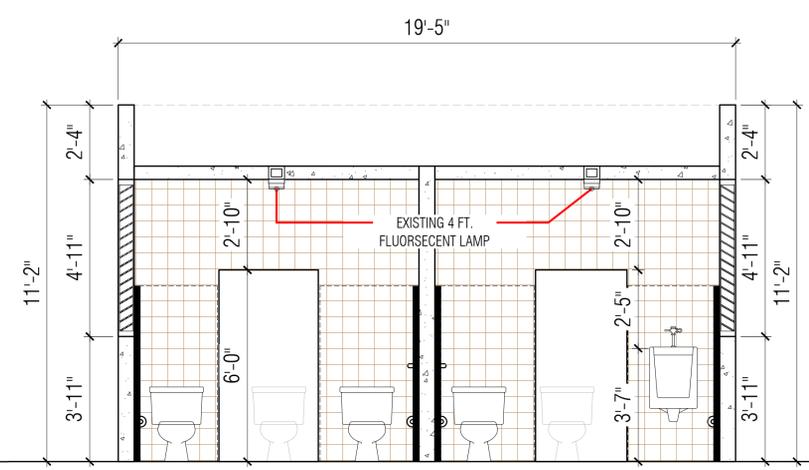
FLOOR PLAN



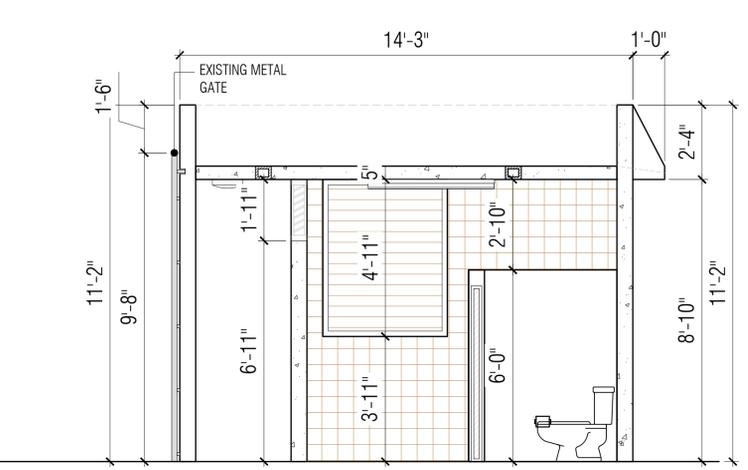
SECTION "Dd"



SECTION "Aa"



SECTION "Bb"



SECTION "Cc"

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
 BASKETBALL RESTROOMS - DEMOLITION PLAN
 SCALE: 3/4" = 1'-0"

- GENERAL DEMOLITION NOTES**
- ① SECURITY METAL DOORS TO BE REMOVED, NEW DOORS TO BE INSTALLED
 - ② ALL WALLS AND FLOORS ARE TO BE CLEARED OF EXISTING MATERIALS, REFURBISHED WITH NEW PLASTER AND PAINT WHERE INDICATED
 - ③ SECURITY GRILLING, FENCING AND GATES TO BE VERIFIED FOR RE-USE. SCRAPE AND REPAIR WHERE NEEDED AND PAINT
 - ④ ALL LIGHTING AND PLUMBING FIXTURES ARE TO BE REPLACED AND SERVICED ACCORDINGLY

PERSONS	DATE
ISSUE FOR REVIEW 30%	AUG 01 2024 1
REVISION	DATE 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

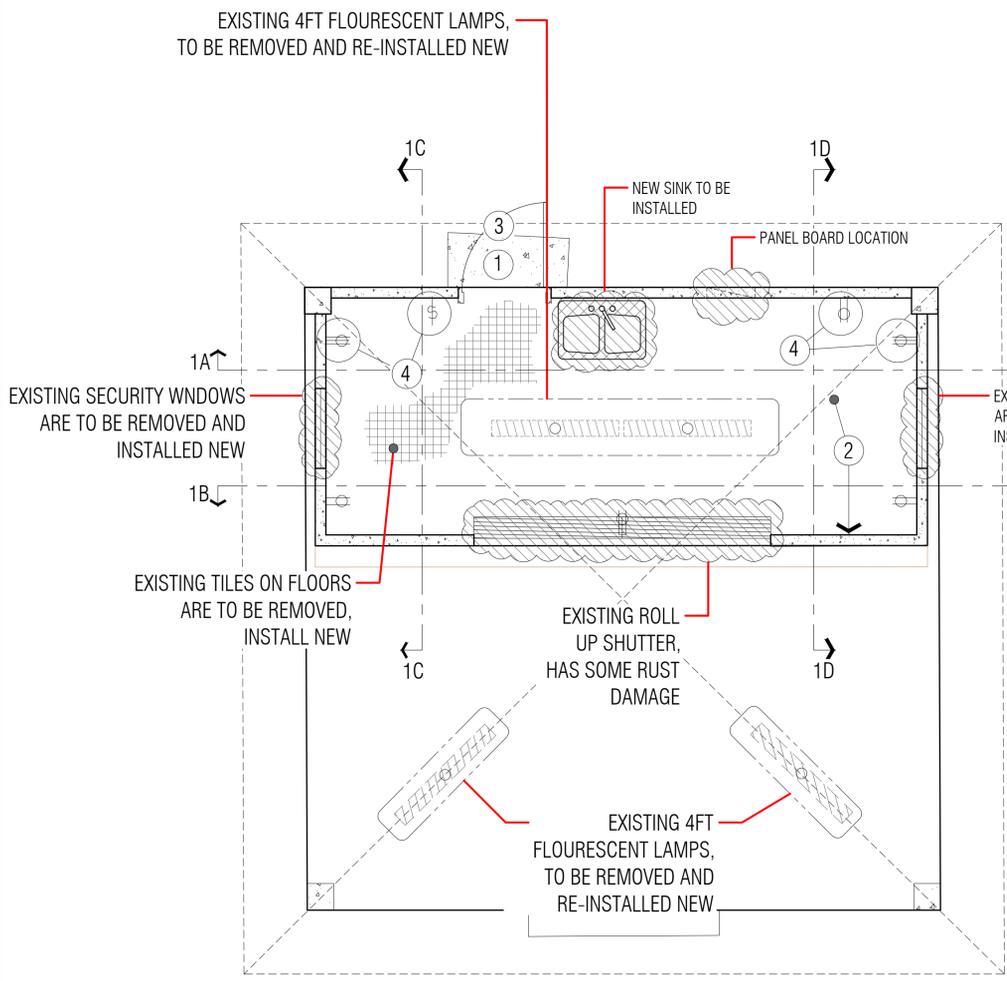
SHEET TITLE
**EXISTING CONDITIONS
 EXTERIOR RESTROOM
 DEMOLITION PLAN**

PROJECT NAME
**IMPROVEMENTS PROJECT
 COROZAL SPORTS COMPLEX
 PR-CRP-000883
 MUNICIPALITY OF COROZAL**

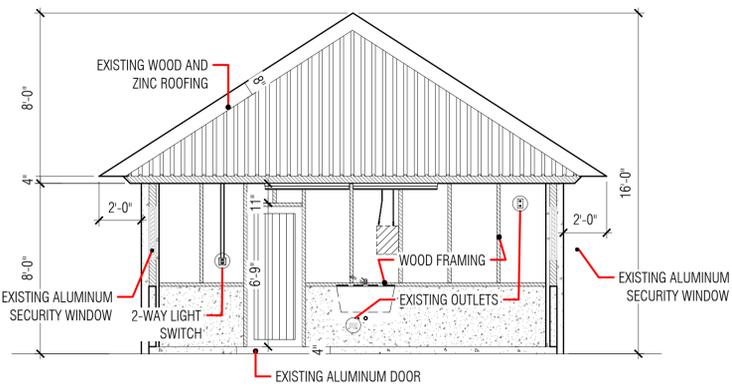
PHASE
**DEMOLITION
 PLAN**

DATE
APRIL 2024
DRWG. SHEET
DP-5

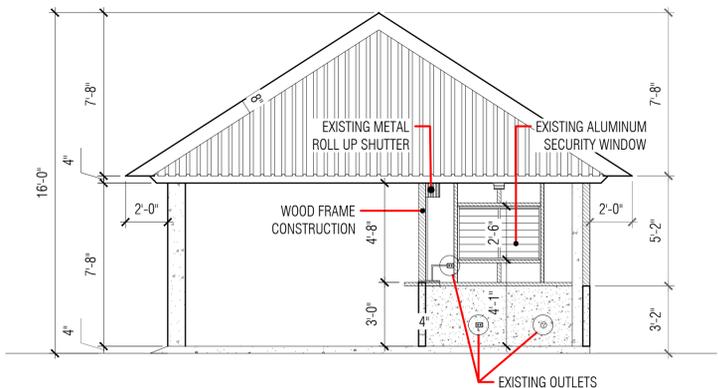
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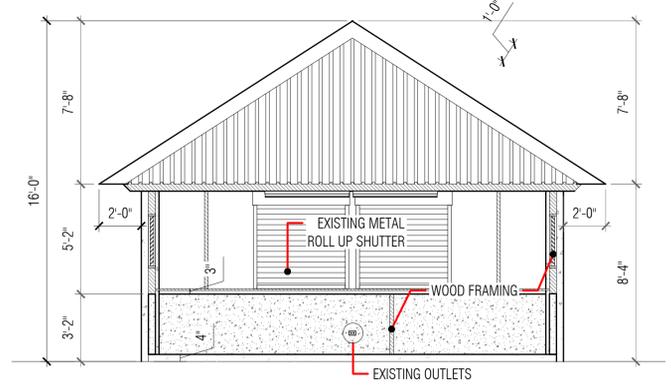
KIOSK FLOOR PLAN



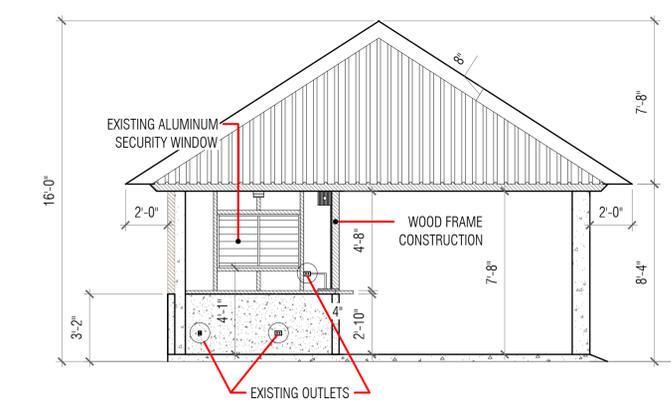
SECTION 1A-1A



SECTION 1C-1C



SECTION 1B-1B



SECTION 1D-1D

GENERAL DEMOLITION NOTES

- ① SECURITY METAL DOORS TO BE REMOVED, NEW DOORS TO BE INSTALLED
- ② ALL WALLS AND FLOORS ARE TO BE CLEARED OF EXISTING MATERIALS, REFURBISHED WITH NEW PLASTER AND PAINT WHERE INDICATED
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- ④ ALL LIGHTING AND PLUMBING FIXTURES ARE TO BE REPLACED AND SERVICED ACCORDINGLY

IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
EXISTING CONDITIONS - OUTDOOR KIOSK
 SCALE: 3/8" = 1'-0"

REVISIONS	DATE
ISSUE FOR REVIEW 30%	AUG.01.2023 1
REVISION	DATE 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

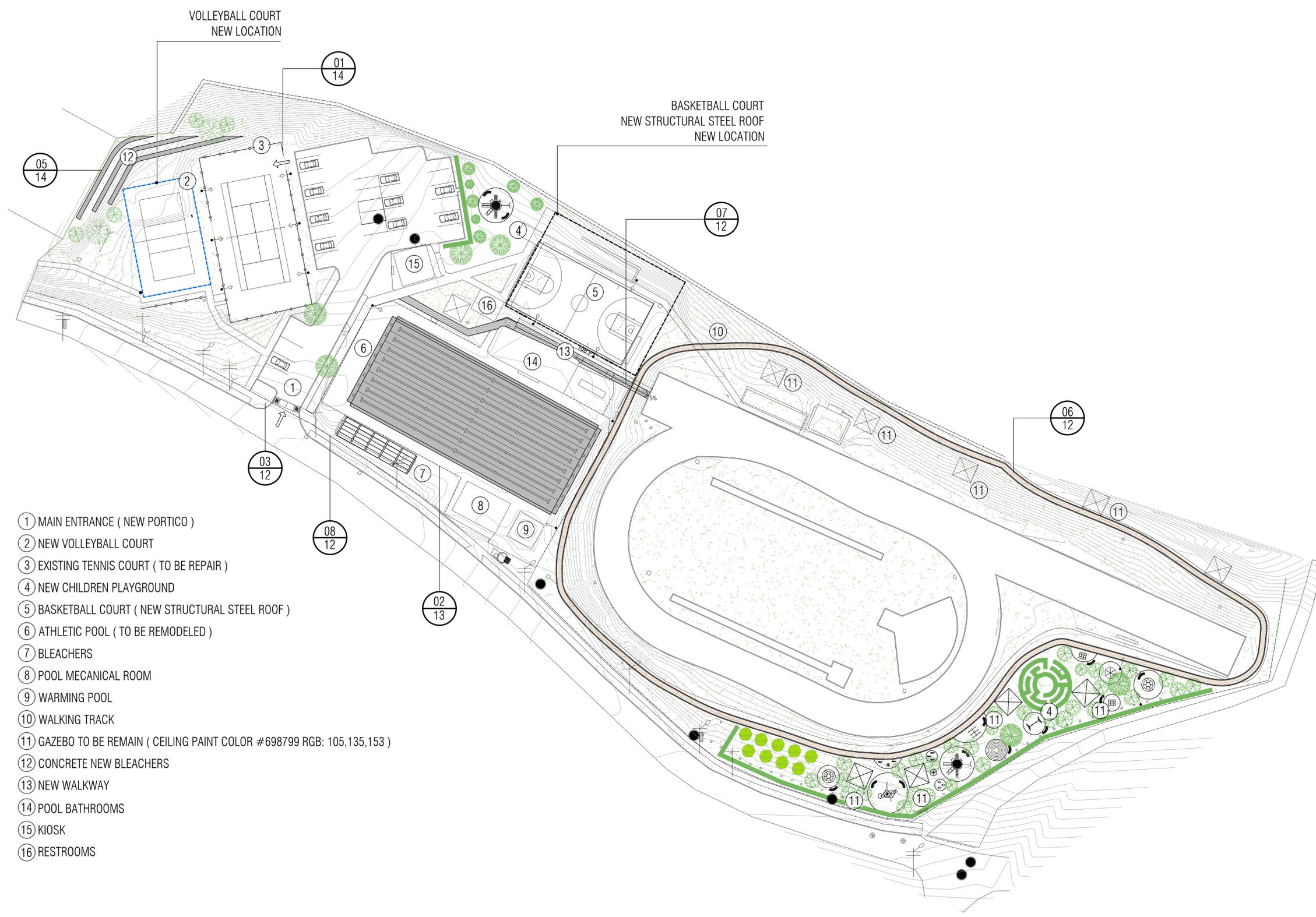
DEMOLITION PLAN
SPORTS COMPLEX
KIOSK FLOOR PLAN AND SECTIONS

IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
 MUNICIPALITY OF COROZAL

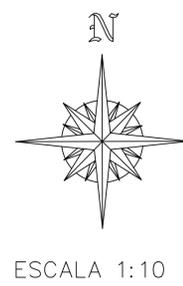
AS-BUILT PLAN
EXST. COND.

DATE	APRIL 2024
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- ① MAIN ENTRANCE (NEW PORTICO)
- ② NEW VOLLEYBALL COURT
- ③ EXISTING TENNIS COURT (TO BE REPAIR)
- ④ NEW CHILDREN PLAYGROUND
- ⑤ BASKETBALL COURT (NEW STRUCTURAL STEEL ROOF)
- ⑥ ATHLETIC POOL (TO BE REMODELED)
- ⑦ BLEACHERS
- ⑧ POOL MECANICAL ROOM
- ⑨ WARMING POOL
- ⑩ WALKING TRACK
- ⑪ GAZEBO TO BE REMAIN (CEILING PAINT COLOR #698799 RGB: 105,135,153)
- ⑫ CONCRETE NEW BLEACHERS
- ⑬ NEW WALKWAY
- ⑭ POOL BATHROOMS
- ⑮ KIOSK
- ⑯ RESTROOMS



**IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
PROPOSED MASTER PLAN**

APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
10 St. Montecarlo Avenue #666 Rio Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: 787-771-8071 / 787-771-5089 / Fax: 787-771-5079 www.aeggroup.com

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEP 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

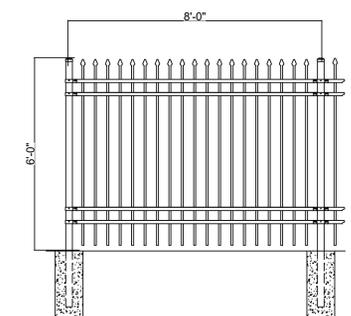
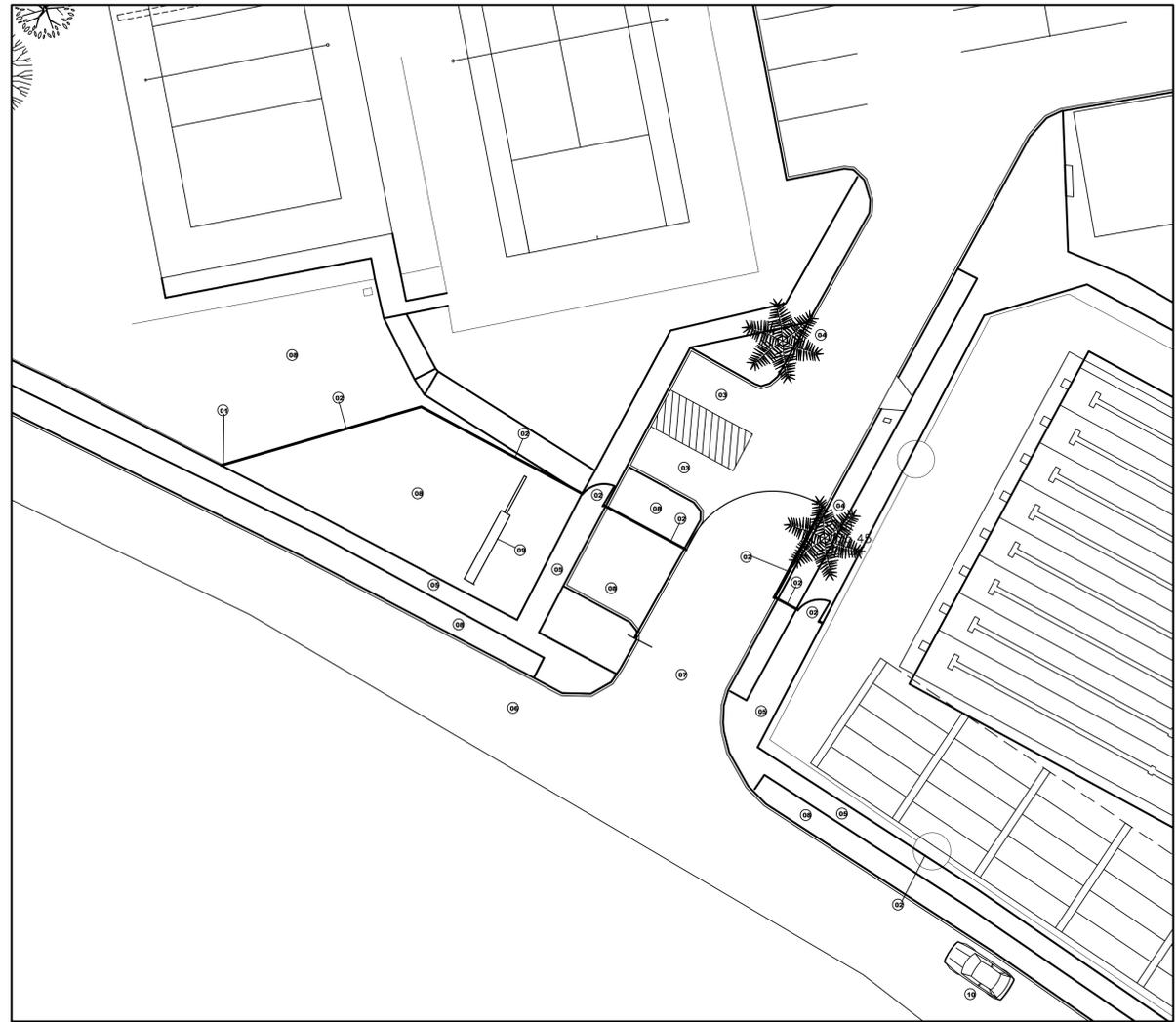
**PROPOSED PLAN
SPORT COMPLEX FACILITY
ARCHITECTURAL SITE PLAN VIEW**

**IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY**
PR-CPP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

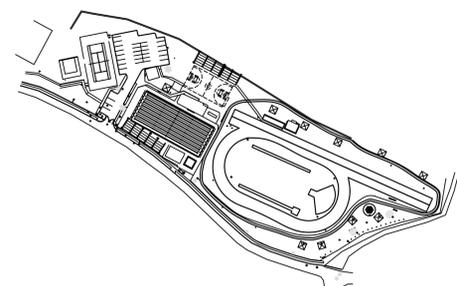
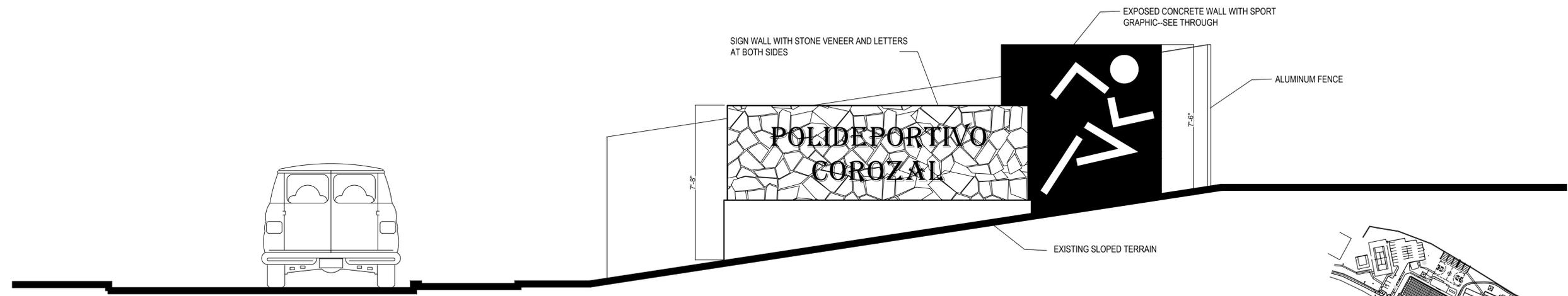
PROPOSED PLAN

DATE	APRIL 2024
DRAWG. SHEET	A-1

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NOTE:
- PARTIAL REMOVAL OF CYCLONE FENCE TO BE REPLACED BY AN ALUMINUM ONE ON THE MAIN ENTRANCE.



IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
ARCHITECTURAL - PARK'S MAIN ENTRANCE
SCALE: 3/8" = 1'-0"

Key Plan NTS

REVISIONS	DATE
ISSUE FOR REVIEW 30%	JUL 12, 2023 1
ISSUE FOR REVIEW 60%	AUG 22, 2023 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

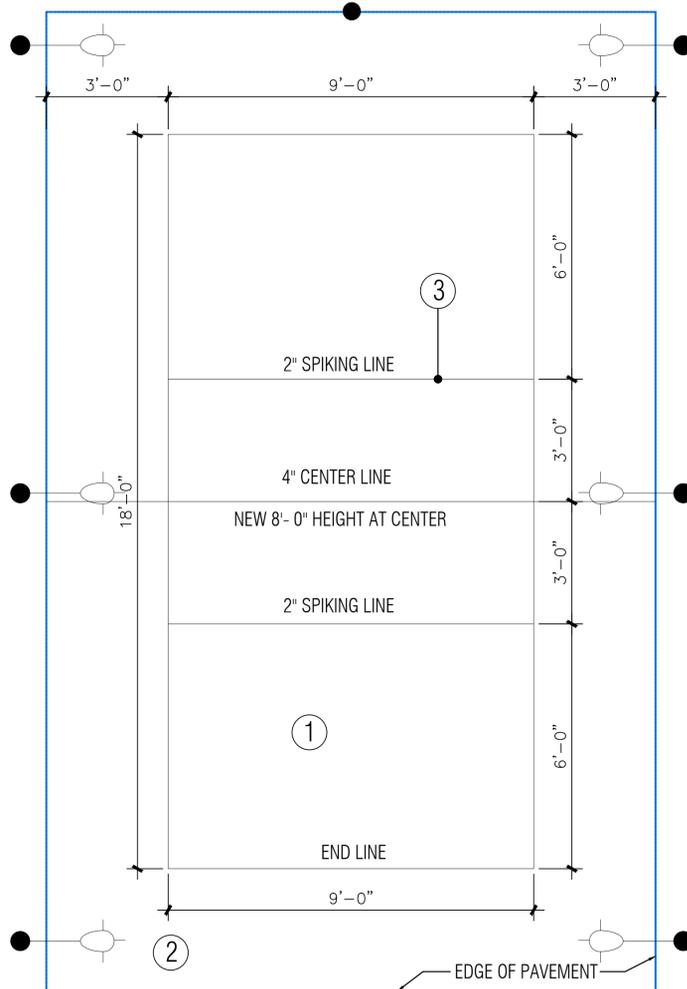
NEW CONDITIONS
SPORTS COMPLEX FACILITIES
PARK'S MAIN ENTRANCE

IMPROVEMENTS PROJECT
COROZAL SPORTS COMPLEX
PR-CRP-000883
MUNICIPALITY OF COROZAL

ARCHITECTURAL
NEW COND.

DATE
APRIL 2024
DRWG. SHEET
A-2

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LEGEND:

- ① COURT: COLOR #F99271 (RGB: 249,146,113)
- ② SERVICE ZONE: COLOR #34AEB6 (RGB: 52,174,182)
- ③ WHITE 4" LINES

1. MATERIAL - PRODUCT

POWERGAME+ OR SIMILAR: MODULAR ATHLETIC SURFACING SYSTEM OR SIMILAR INCLUDING THE INTERLOCKING HIGHIMPACT POLYPROPYLENE COPOLYMER TILE OF PROPRIETARY FORMULATION AND STRIPING.
 GRID-TOP DESIGN.
 SIZE: 12.04" X 12.04" X 0.75" (30.58CM X 30.58CM X 19.1MM)
 HIGH-IMPACT POLYPROPYLENE COPOLYMER SUSPENDED MODULES.
 SHOCK ABSORBING SUPPORT UNDERSTRUCTURE.
 5THE TILE SHALL HAVE A 36-POINT POSITIVE LOCKING SYSTEM.
 COLOR CONSISTENCY: ECMC < 1.0 D.
 WEIGHT: 0.73 LBS. (331 GRAMS)
 PACKAGING: PRODUCT IS SHIPPED IN PRE-ASSEMBLED SHEETS (2X4 MODULES PER SHEET, 5 SHEETS PER BOX).

2. SURFACE PREPARATION

SUBFLOORS SHALL BE CLEAN, DRY AND FREE FROM DIRT, DUST, OIL, GREASE, PAINT, OR OTHER FOREIGN MATERIALS.
 SURFACING INSTALLATION SHALL NOT BEGIN UNTIL THE LEVELNESS REQUIREMENTS OF CONCRETE SUBFLOORS HAVE BEEN MET.
 THE INSTALLATION AREA SHALL BE CLOSED TO ALL TRAFFIC AND ACTIVITY FOR A PERIOD TO BE SET BY THE CONTRACTOR.

3. CONCRETE SUBFLOORS

- THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL THE CONCRETE SUBFLOORS.
 - THE SLAB SHALL BE A MEDIUM BROOM FINISH WITH LEVEL TOLERANCES OF ±1/8" (3.2MM) IN ANY 10' (3M) RADIUS. FLOOR FLATNESS AND FLOOR LEVELNESS (FF AND FL) NUMBERS ARE NOT RECOGNIZED. HIGH SPOTS SHALL BE GROUND LEVEL AND LOW SPOTS FILLED WITH APPROVED LEVELING COMPOUND.
 - THE SLAB SHALL HAVE A SLOPE NO MORE THAN 0.5%, OR 1 INCH IN 16 FEET, ALL IN ONE PLANE. OPTIONALLY, CONCRETE SLAB MAY BE CROWNED AT THE COURT CENTER LINE AND SLOPING DOWN AT 0.5% TOWARDS THE EDGE OF THE SLAB.

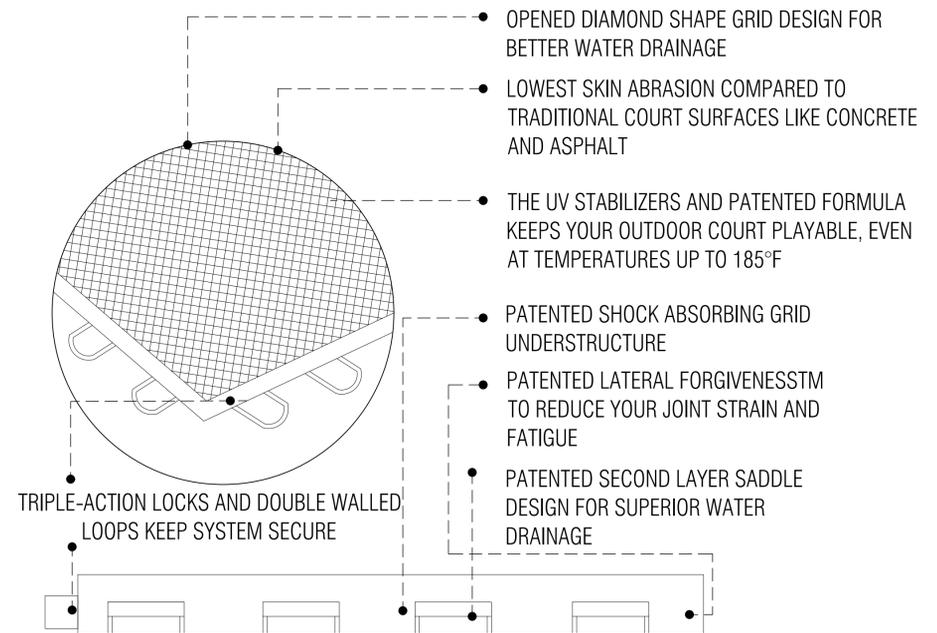
4. GAME LINE PAINT

PAINT – ALIPHATIC POLYURETHANE AS RECOMMENDED BY MANUFACTURER.
 USE ONLY HIGH-QUALITY MASKING TAPE.

5. SANITARY INFORMATION

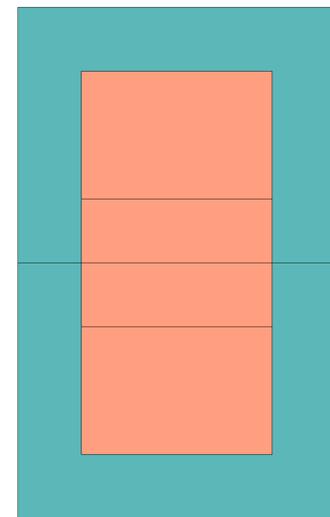
RESISTANCE TO FUNGI (WHEN TESTED IN COMPLIANCE WITH ASTM G-21 AND MIL STANDARD 810-D PROCEDURE 508.3). ALL BASIC ORGANISMS TESTED (ATCC #6205-11797) AND WERE FOUND TO HAVE ZERO GROWTH.
 2RESISTANCE TO THE FOLLOWING:
 BACTERIA AND MILDEW RESISTANCE, GRAM-POSITIVE BACTERIA, STAPHYLOCOCCUS AUREUS, GRAM-NEGATIVE KLEBSIELLA PNEUMONIA, PINK-STAINING ORGANISM, STV RETICULUM AND SURFACE FUNGI GROWTH PRIOR TO AND FOLLOWING LEACHING.

AFTER ATHLETIC SURFACING IS INSTALLED AND THE GAME LINES PAINTED, THE AREA IS TO BE CLOSED TO ALLOW CURING TIME FOR THE SYSTEM, TYPICALLY 3-5 DAYS. NO OTHER TRADES OR PERSONNEL ARE ALLOWED ON THE FLOOR UNTIL IT HAS BEEN ACCEPTED BY THE OWNER.



BASKETBALL COURT PRODUCT CONSTRUCTION

Scale: N/S



VOLLEYBALL COURT COLOR PALETTE

Scale: N/S

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MAY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEP 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
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REVISION	DATE 7

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1. MATERIAL - PRODUCT

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GRID-TOP DESIGN.

SIZE: 12.04" X 12.04" X 0.75" (30.58CM X 30.58CM X 19.1MM)

HIGH-IMPACT POLYPROPYLENE COPOLYMER SUSPENDED MODULES.

SHOCK ABSORBING SUPPORT UNDERSTRUCTURE.

5THE TILE SHALL HAVE A 36-POINT POSITIVE LOCKING SYSTEM.

COLOR CONSISTENCY: ECMC < 1.0 D.

WEIGHT: 0.73 LBS. (331 GRAMS)

PACKAGING: PRODUCT IS SHIPPED IN PRE-ASSEMBLED SHEETS (2X4 MODULES PER SHEET, 5 SHEETS PER BOX).

2. SURFACE PREPARATION

SUBFLOORS SHALL BE CLEAN, DRY AND FREE FROM DIRT, DUST, OIL, GREASE, PAINT, OR OTHER FOREIGN MATERIALS.

SURFACING INSTALLATION SHALL NOT BEGIN UNTIL THE LEVELNESS REQUIREMENTS OF CONCRETE SUBFLOORS HAVE BEEN MET.

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3. CONCRETE SUBFLOORS

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4. GAME LINE PAINT

PAINT – ALIPHATIC POLYURETHANE AS RECOMMENDED BY MANUFACTURER. USE ONLY HIGH-QUALITY MASKING TAPE.

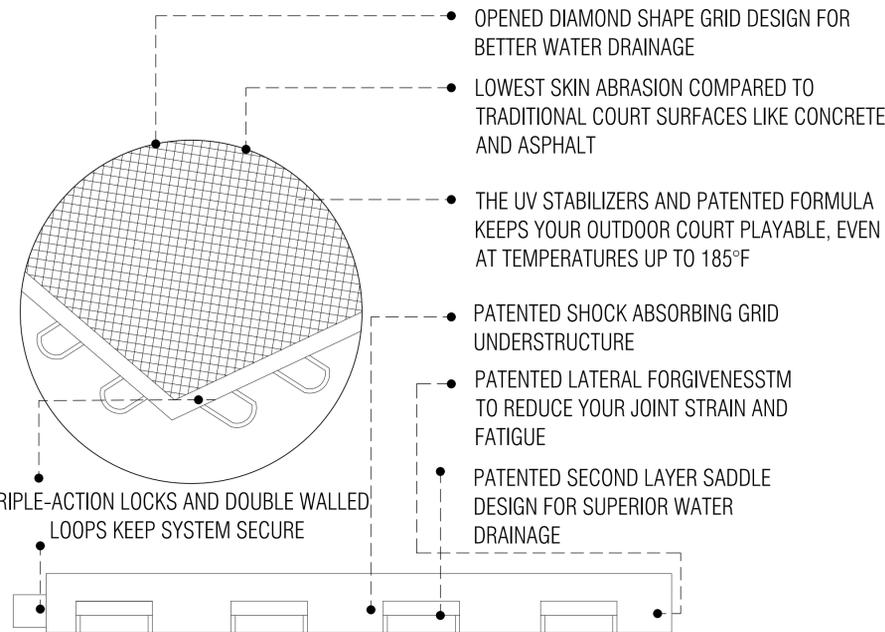
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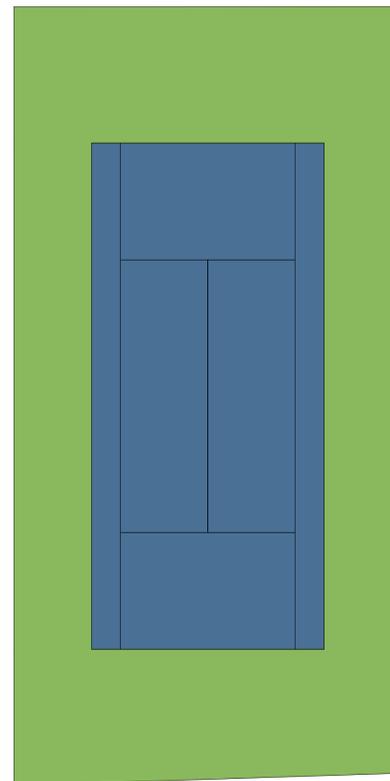
BACTERIA AND MILDEW RESISTANCE, GRAM-POSITIVE BACTERIA, STAPHYLOCOCCUS AUREUS, GRAM-NEGATIVE KLEBSIELLA PNEUMONIA, PINK-STAINING ORGANISM, STV RETICULUM AND SURFACE FUNGI GROWTH PRIOR TO AND FOLLOWING LEACHING.

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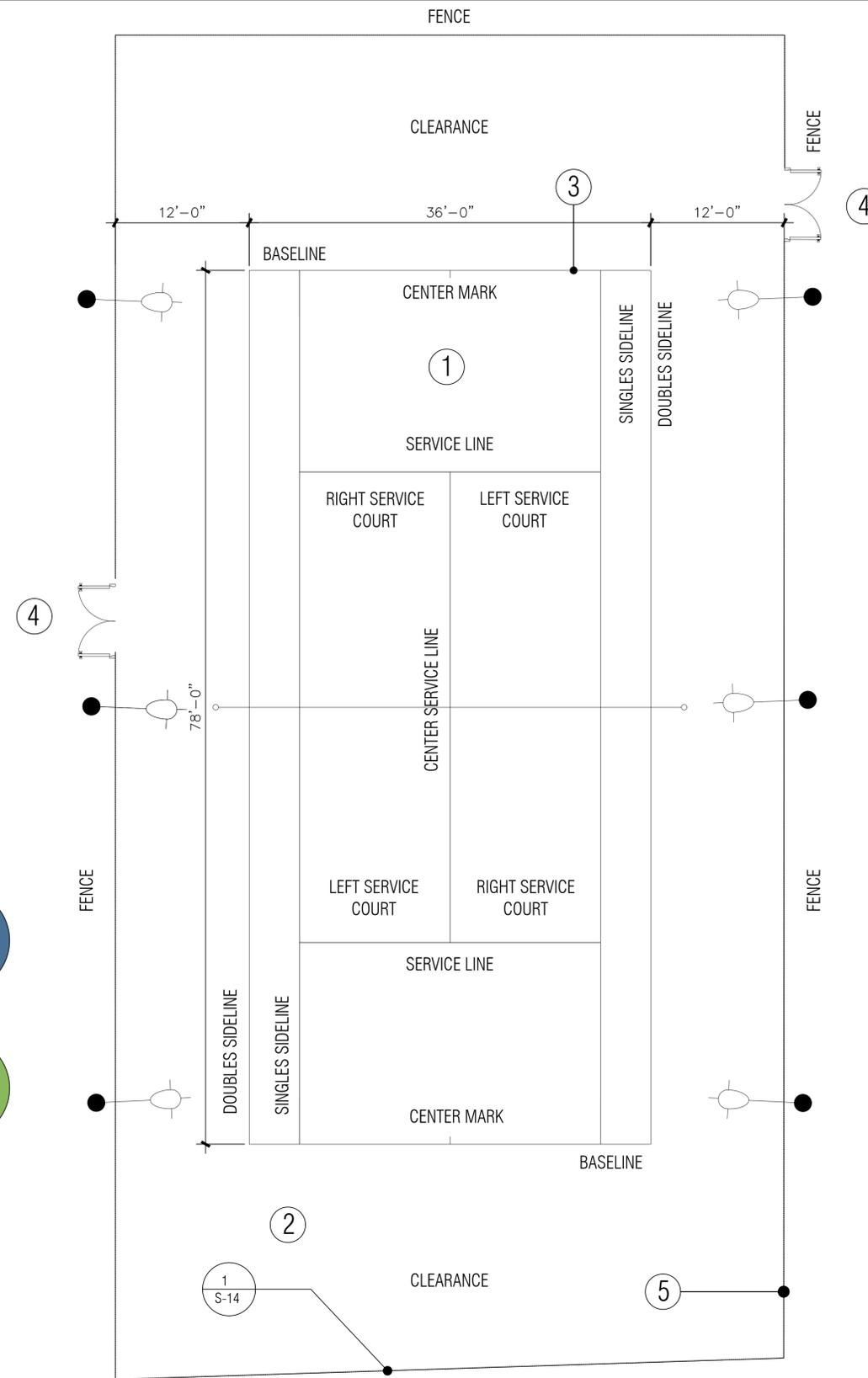
TENNIS COURT PRODUCT CONSTRUCTION

Scale: N/S



TENNIS COURT COLOR PALETTE

Scale: N/S



LEGEND:

- ① COURT: QUEEN BLUE COLOR #3C638E (RGB: 60,99,14
- ② CLEARANCE: RUSSIAN GREEN COLOR #6C935C (RGB: 108,147,92)
- ③ WHITE 4" LINES
- ④ ENTRANCE - NEW DOOR
- ⑤ EXISTING FENCE TO BE REPLACED

**IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
TENNIS COURT FLOOR PLAN**

Scale: 5/32" = 1'-0"

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	APR 12, 2024 1
ISSUE FOR REVIEW - 60%	AUG 16, 2024 2
ISSUE FOR REVIEW - 90%	SEP 19, 2024 3
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REVISION	DATE 7

**PROPOSED PLAN - TENNIS COURT
SPORT COMPLEX FACILITY
ARCHITECTURAL SITE PLAN VIEW**

**IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY**

PHASE
**ARCHITECTURAL
PROPOSED PLAN**

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BASKETBALL AND VOLLEYBALL COURT RESTORATION

1. MATERIAL - PRODUCT

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2. NEW CONCRETE SLAB

- THE NEW SLAB SHALL BE A MEDIUM BROOM FINISH WITH LEVEL TOLERANCES OF ±1/8" (3.2MM) IN ANY 10' (3M) RADIUS. FLOOR FLATNESS AND FLOOR LEVELNESS (FF AND FL) NUMBERS ARE NOT RECOGNIZED. HIGH SPOTS SHALL BE GROUND LEVEL AND LOW SPOTS FILLED WITH APPROVED LEVELING COMPOUND. - THE SLAB SHALL HAVE A SLOPE NO MORE THAN 0.5%, OR 1 INCH IN 16 FEET, ALL IN ONE PLANE. OPTIONALLY, CONCRETE SLAB MAY BE CROWNED AT THE COURT CENTER LINE AND SLOPING DOWN AT 0.5% TOWARDS THE EDGE OF THE SLAB.

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4. GAME LINE PAINT

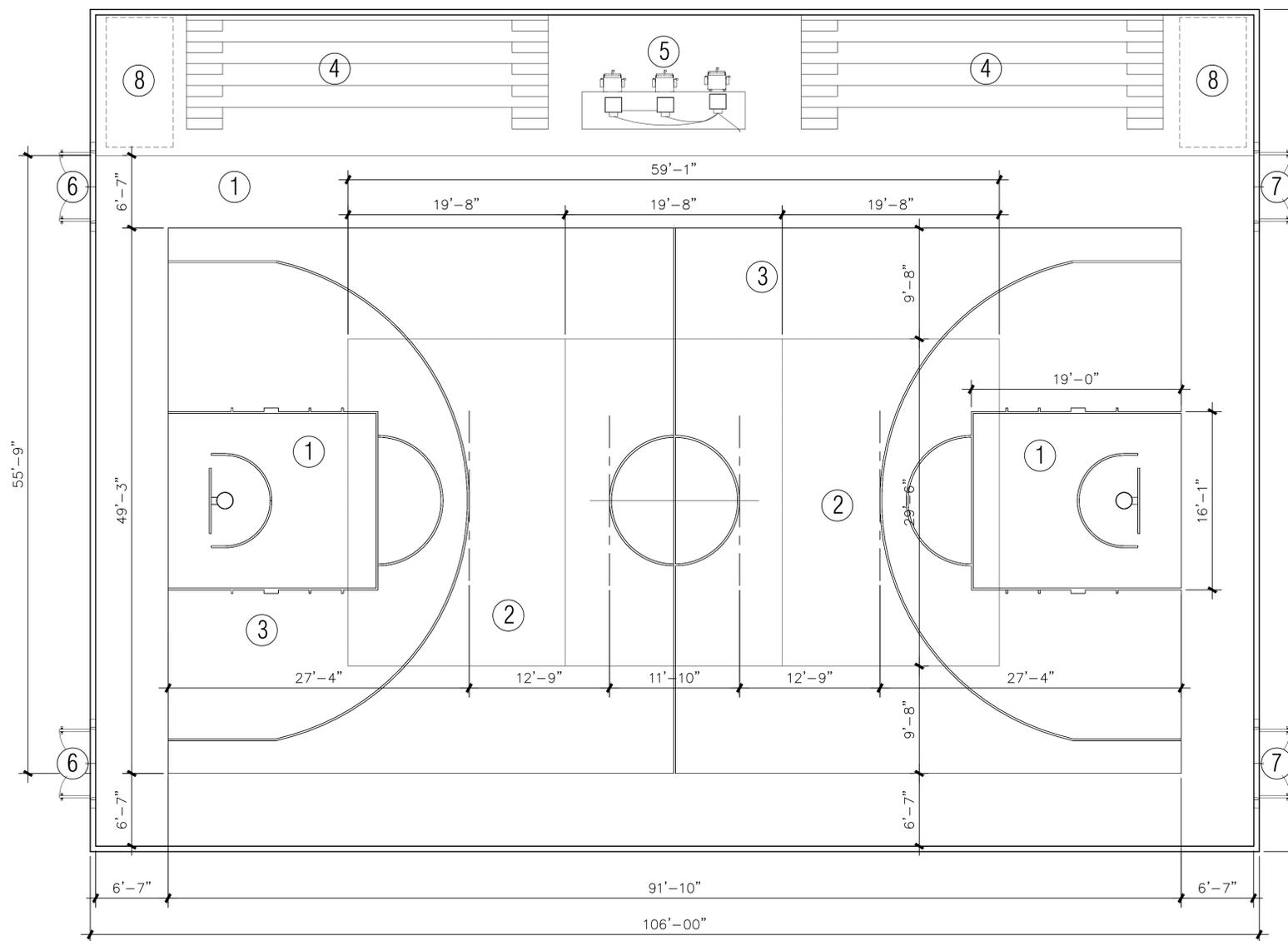
PAINT – ALIPHATIC POLYURETHANE AS RECOMMENDED BY MANUFACTURER. USE ONLY HIGH-QUALITY MASKING TAPE.

5. SANITARY INFORMATION

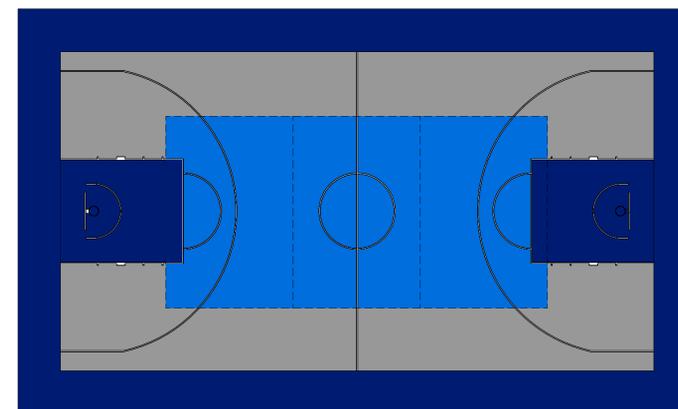
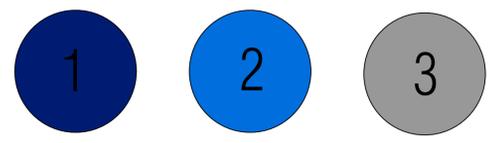
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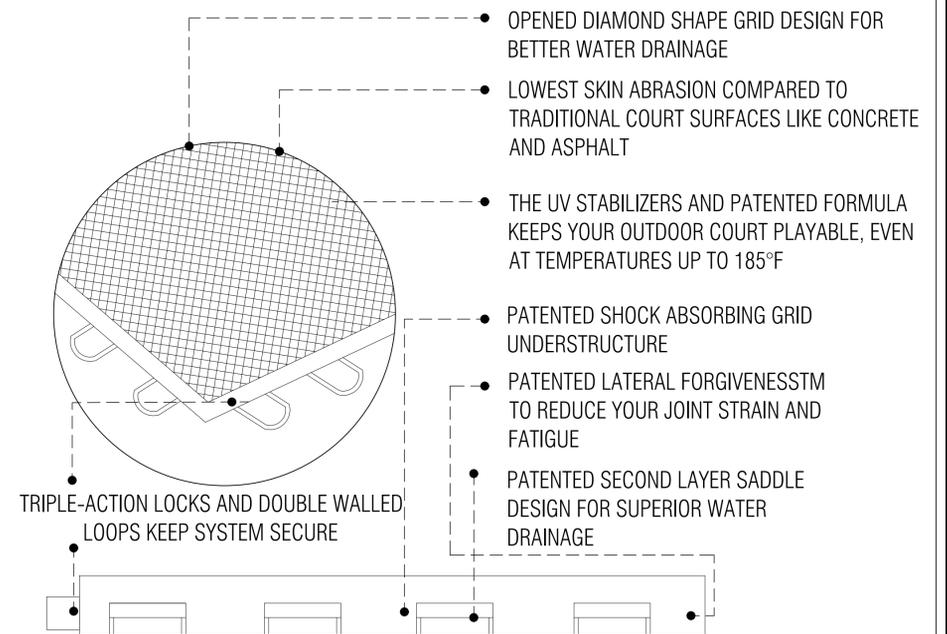
IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
BASKETBALL COURT FLOOR PLAN
 Scale : 5/32" = 1'-0"



- LEGEND:**
- ① DARK BLUE COLOR #001B48
 - ② BLUE COLOR #1564CC
 - ③ GRANITE COLOR #83858B
 - ④ CONCRETE BLEACHERS
 - ⑤ SCORERS TABLES
 - ⑥ ENTRANCE
 - ⑦ EMERGENCY EXIT
 - ⑧ PORTABLE BACKSTOP STORAGE



BASKETBALL COURT COLOR PALETTE
 Scale: N/S



BASKETBALL COURT PRODUCT CONSTRUCTION
 Scale: N/S

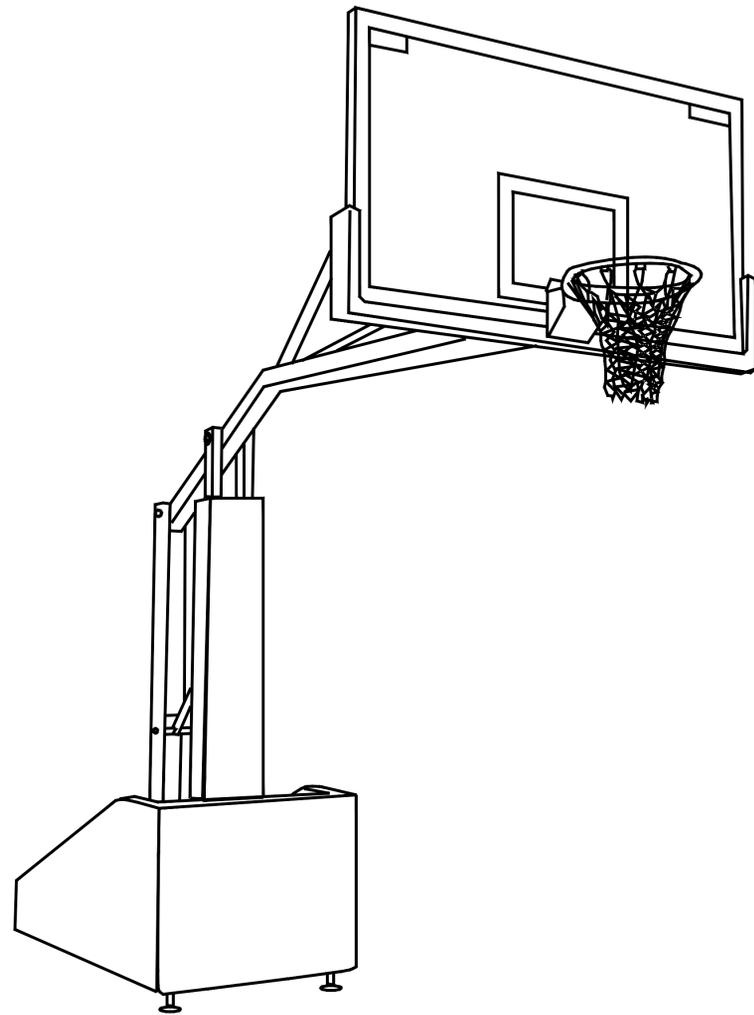
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PROPOSED PLAN - BASKETBALL AND VOLLEYBALL COURT ARCHITECTURAL SITE PLAN VIEW

IMPROVEMENT PROJECT COROZAL SPORT COMPLEX FACILITY
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL PROPOSED PLAN

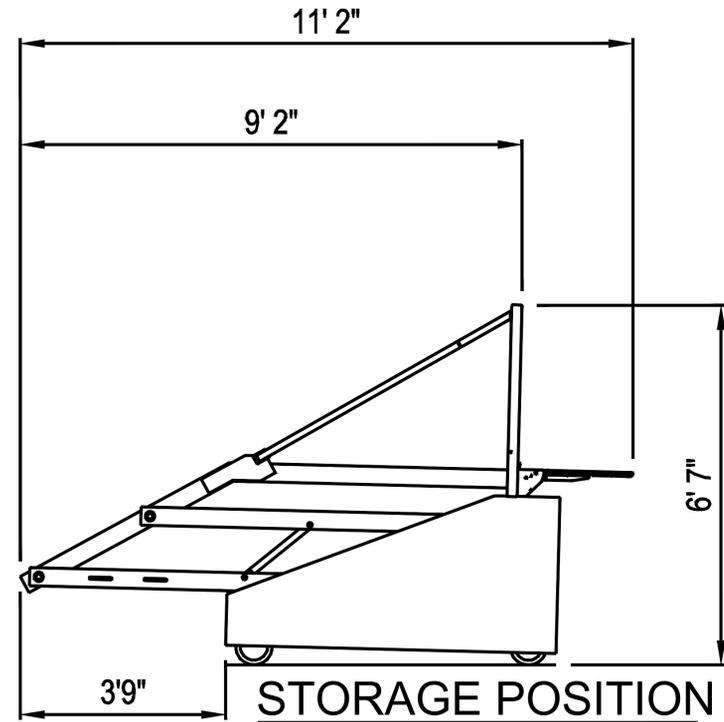
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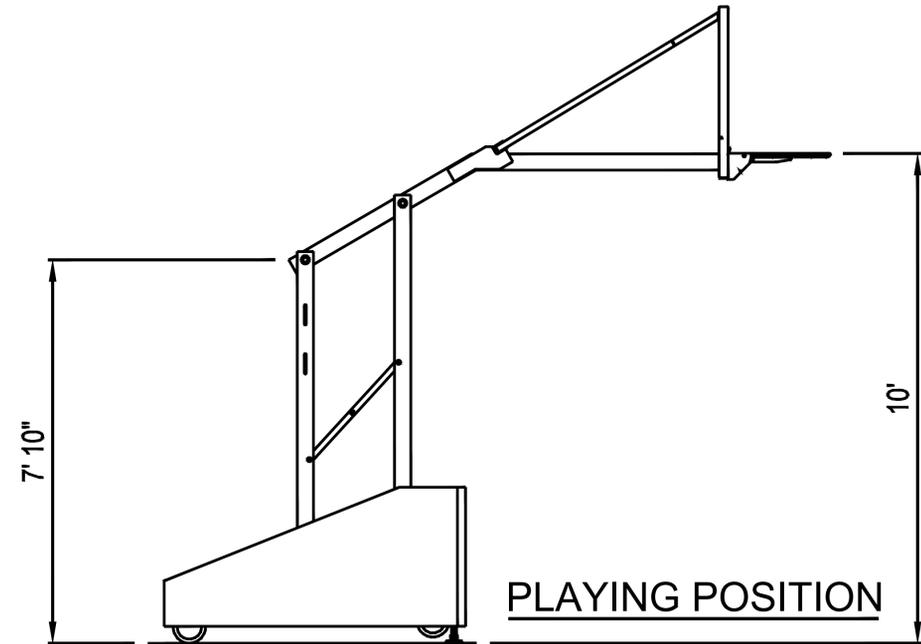
BASKETBALL PORTABLE BACKSTOP
Scale: N/S

PRODUCT SPECS

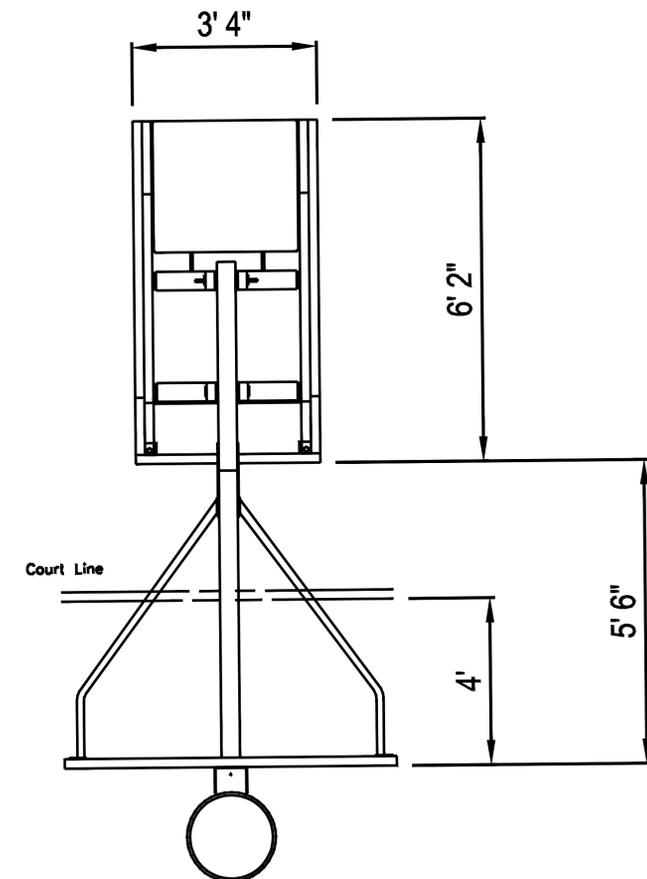
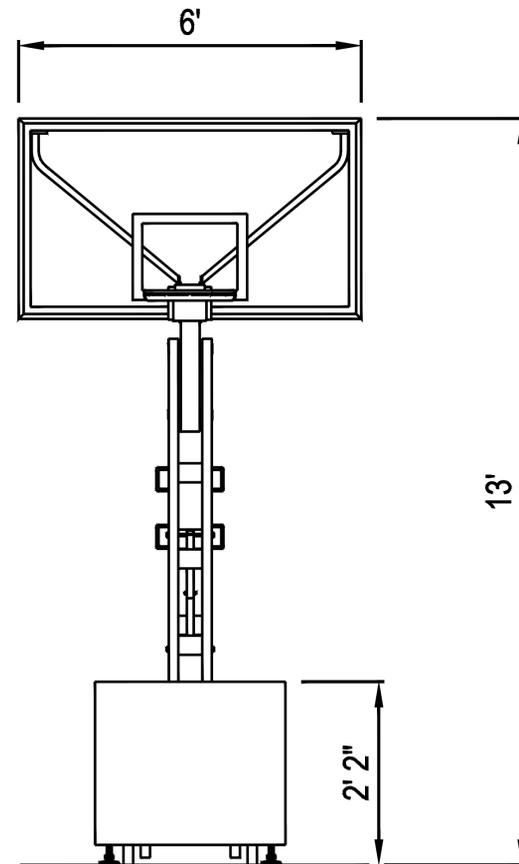
- DRAPER OR SIMILAR EZ-SHARPSHOOTER 66 PORTABLE FOR SMALL SPACES
 - 66" (1.68 M) OF SAFE PLAY AREA WITH GOAL AT 10' (3.05 M) PLAYING HEIGHT.
 - FRONT STABILIZERS LOCK IN PLACE FOR MAXIMUM PLAY STABILITY.
 - FRONT AND SIDES PADDED WITH 2" (51 MM) THICK POLYURETHANE FOAM WRAPPED IN CHOICE OF 12 COLORS OF VINYL.
 - BOLT-ON EDGE PADDING COLOR MATCHES BASE PAD COLOR.
 - GOAL HEIGHT IS ADJUSTABLE FROM 7' TO 10' (2.13 M TO 3.05 M) IN 6" (152 MM) INCREMENTS FOR PLAYERS OF ALL AGES.
 - ROLLS EASILY ON FOUR 8" (152 MM) DIAMETER, NON-MARKING, NON-SKID CASTERS.
 - COMES COMPLETE WITH ALL NECESSARY BALLAST INSTALLED AND HIDDEN FROM SIGHT.
- OPTIONAL REAR ANCHOR AVAILABLE.



Load on Each Rear Wheel = 595 lbs.
Load on Each Front Pad = 340 lbs.

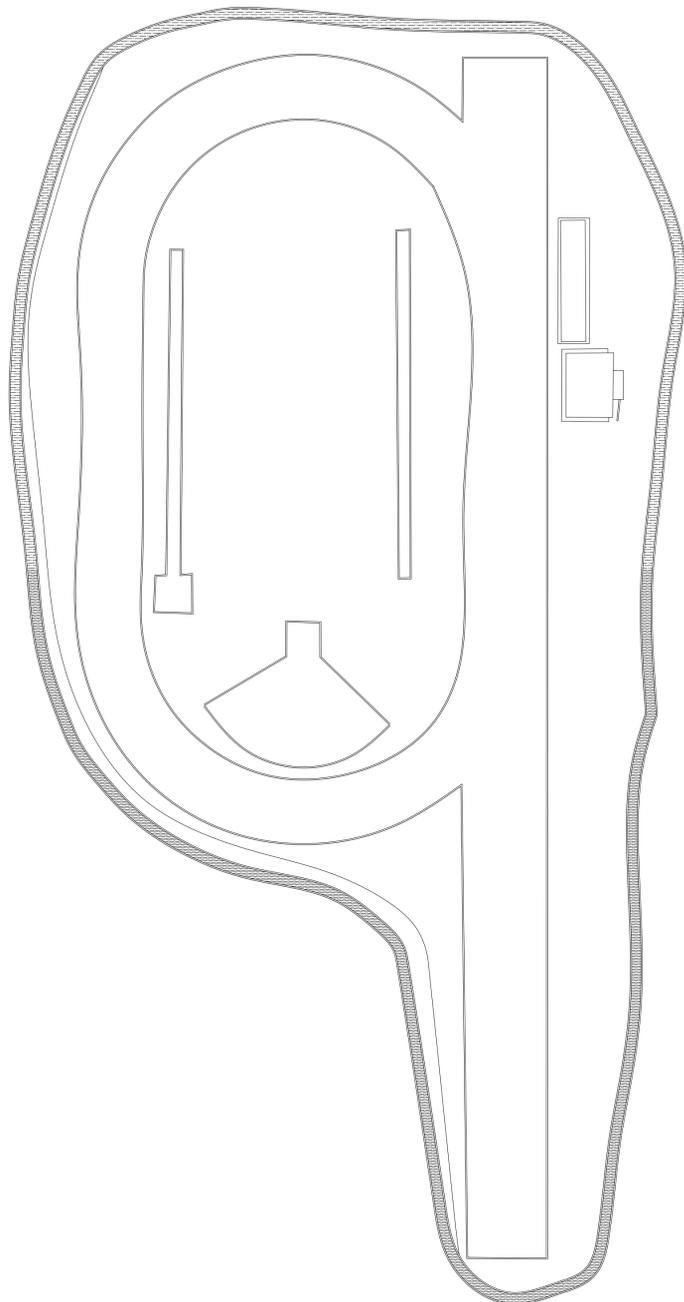


Load on Each Rear Wheel = 370 lbs.
Load on Each Front Pad = 565 lbs.



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MATERIAL - PRODUCT:

CONCRETE MIX: CHOOSE A HIGH-QUALITY CONCRETE MIX SUITABLE FOR THE PROJECT'S REQUIREMENTS, SUCH AS A RESURFACING MIX OR OVERLAY MIX.

QUIKRETE RE-CAP TROWEL GRADE CONCRETE RESURFACER OR SIMILAR IS A POLYMER MODIFIED AND SHRINKAGE-COMPENSATED, HIGH STRENGTH PORTLAND CEMENT-BASED REPAIR MATERIAL DESIGNED FOR HORIZONTAL CONCRETE REPAIRS OF LARGE AND SMALL AREAS.

SURFACE PREPARATION:

EVALUATE THE EXISTING SIDEWALK'S CONDITION FOR ANY CRACKS, SPALLING, OR DAMAGE. REPAIR ANY STRUCTURAL ISSUES, SUCH AS FIXING CRACKS AND ADDRESSING UNEVEN SURFACES. LARGER REPAIRS MAY INVOLVE REMOVING AND REPLACING DAMAGED SECTIONS.

PRIMING:

DEPENDING ON THE RESURFACING PRODUCT USED, YOU MAY NEED TO APPLY A BONDING PRIMER TO ENHANCE ADHESION. PRIMING IS AN IMPORTANT STEP IN THE PROCESS OF RESURFACING A CONCRETE SIDEWALK, PARTICULARLY WHEN YOU ARE APPLYING A NEW LAYER OF CONCRETE OR A CONCRETE OVERLAY. THE PURPOSE OF PRIMING IS TO ENHANCE THE ADHESION BETWEEN THE EXISTING CONCRETE SURFACE AND THE NEW RESURFACING MATERIAL.

USE SIKA® BONDING PRIMER OR SIMILAR: IT IS A TWO-COMPONENT, WATER-BASED EPOXY PRIMER TO CONSOLIDATE SUBSTRATES.

POUR THE BONDING PRIMER INTO A PAINT TRAY OR BUCKET. START APPLYING THE PRIMER TO THE CONCRETE SIDEWALK. FOR LARGER AREAS, CONSIDER USING A SPRAYER FOR QUICKER AND MORE EVEN COVERAGE. APPLY THE PRIMER EVENLY, MAKING SURE TO COAT THE ENTIRE SURFACE THAT WILL RECEIVE THE RESURFACING MATERIAL.

WORK IN SECTIONS, ENSURING THAT THE PRIMER DOESN'T DRY BEFORE YOU APPLY THE RESURFACING MATERIAL. THE EXACT DRYING TIME MAY VARY DEPENDING ON THE PRIMER, SO CONSULT THE MANUFACTURER'S INSTRUCTIONS.

AFTER THE PRIMER HAS DRIED, INSPECT THE SURFACE TO ENSURE THAT IT HAS BEEN EVENLY COATED. YOU SHOULD SEE A THIN, UNIFORM LAYER OF PRIMER. PROCEED WITH RESURFACING:

ONCE THE PRIMER IS PROPERLY CURED, YOU CAN PROCEED WITH APPLYING THE CONCRETE RESURFACING MATERIAL.

PRIMING IS CRUCIAL TO ENSURE A STRONG BOND BETWEEN THE EXISTING CONCRETE AND THE NEW OVERLAY. IT HELPS PREVENT DELAMINATION AND ENSURES THAT THE RESURFACING MATERIAL ADHERES SECURELY TO THE OLD SURFACE. ALWAYS FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR THE SPECIFIC BONDING PRIMER YOU ARE USING, AS DIFFERENT PRODUCTS MAY HAVE VARYING APPLICATION AND DRYING REQUIREMENTS.

MIXING THE RESURFACER:

FOLLOW THE MANUFACTURER'S INSTRUCTIONS FOR MIXING THE CONCRETE RESURFACING MATERIAL. TYPICALLY, YOU'LL MIX IT WITH WATER TO ACHIEVE THE DESIRED CONSISTENCY.

APPLICATION:

APPLY THE RESURFACER EVENLY OVER THE ENTIRE SIDEWALK AREA USING A CONCRETE TROWEL. WORK IN SMALL SECTIONS TO ENSURE EVEN COVERAGE. SPREAD THE RESURFACING MATERIAL TO THE DESIRED THICKNESS, TYPICALLY AROUND 1/8 TO 1/4 INCH.

USE EDGING TOOLS TO CREATE CLEAN AND DEFINED EDGES ALONG THE SIDEWALK. TEXTURING:

WHILE THE RESURFACER IS STILL WET, USE A CONCRETE BROOM OR TEXTURE ROLLER TO CREATE THE DESIRED SURFACE TEXTURE. THIS TEXTURE IMPROVES TRACTION AND PREVENTS SLIPPING.

CURING AND DRYING:

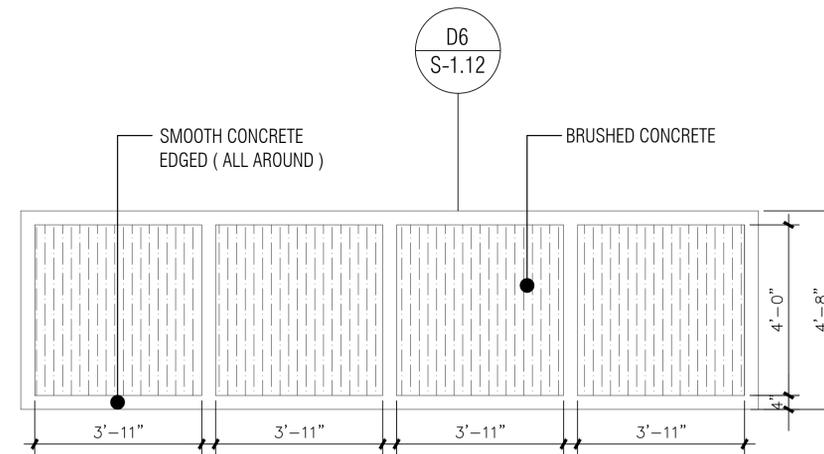
ALLOW THE RESURFACED SIDEWALK TO CURE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. THIS USUALLY INVOLVES KEEPING IT DAMP FOR A SPECIFIED TIME TO ENSURE PROPER CURING.

SEALING (OPTIONAL):

AFTER THE RESURFACED SIDEWALK HAS FULLY CURED, YOU MAY CONSIDER APPLYING A CONCRETE SEALER TO ENHANCE DURABILITY, PROTECT AGAINST STAINS, AND PROLONG THE SIDEWALK'S LIFE. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR THE SEALER APPLICATION.

CURING:

THE LONGEVITY OF THE RESURFACED SIDEWALK WILL DEPEND ON THE QUALITY OF MATERIALS USED AND THE PRECISION OF THE INSTALLATION. MOIST CURING SHOULD BEGIN AS SOON AS THE PRODUCT HAS HARDENED ENOUGH TO NOT BE DAMAGED BY A GENTLE MIST OF WATER. CONTINUE MOIST CURING FOR 24 TO 48 HOURS. PROTECT FROM RAIN FOR AT LEAST 3 HOURS. DO NOT COVER UNLESS IMMEDIATE RAIN PROTECTION IS NECESSARY. WHEN COVERING, USE SHEET PLASTIC.



WALKING PLAN DETAIL

Scale: 1/2" = 1'-0"

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX

WALKING TRACK FLOOR PLAN

Scale: 1 : 10

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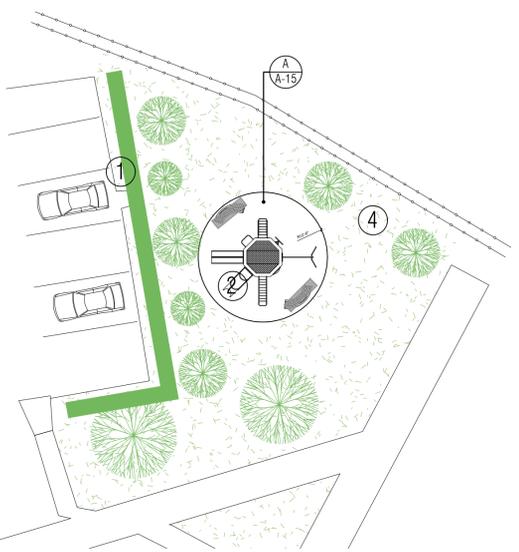
PROPOSED PLAN
WALKING TRACK
ARCHITECTURAL SITE PLAN VIEW

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CPP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

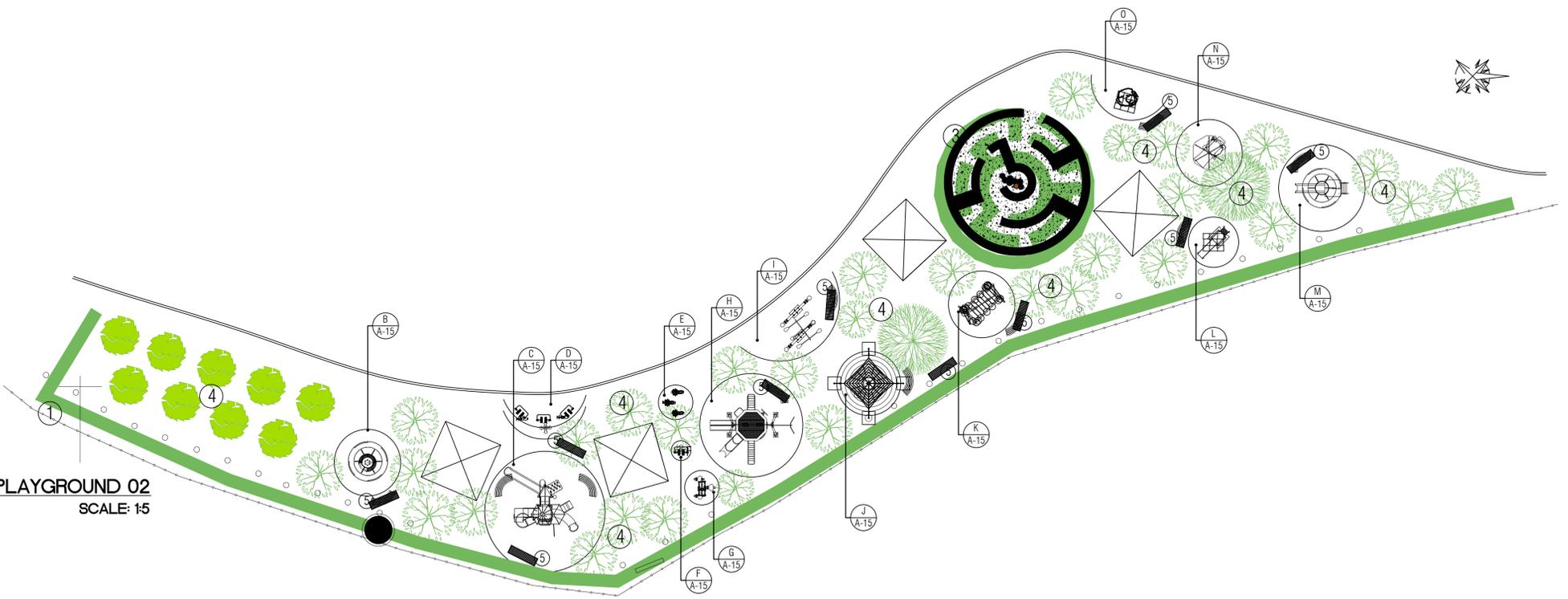
ARCHITECTURAL
PROPOSED PLAN

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PLAYGROUND 01
SCALE: 1 : 5



PLAYGROUND 02
SCALE: 1:5

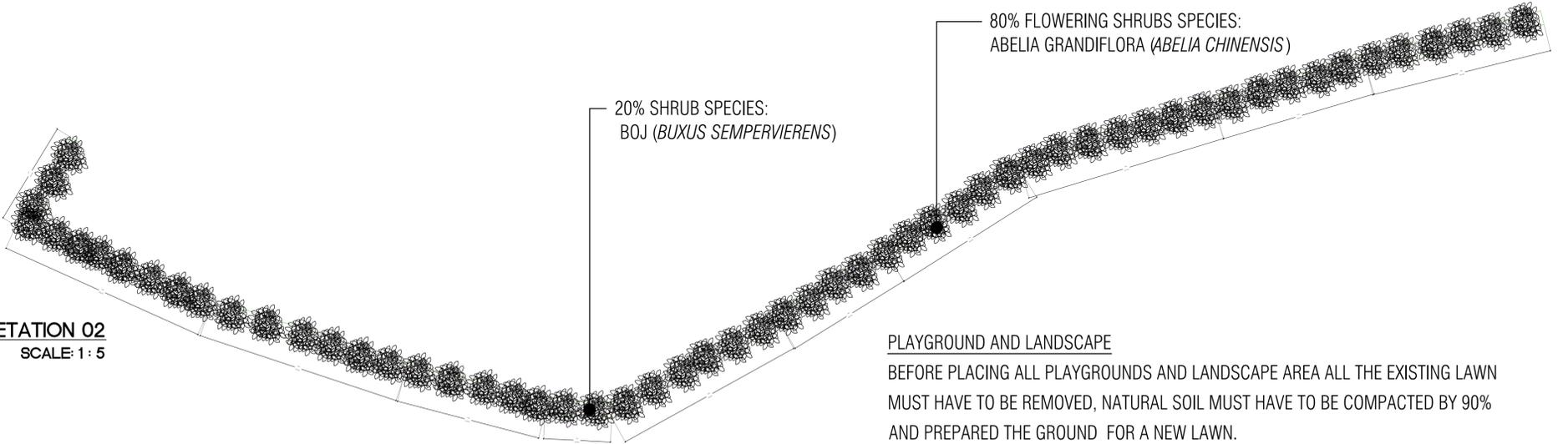


VEGETATION 01
SCALE: 1 : 5



80% FLOWERING SHRUBS SPECIES: ABELIA GRANDIFLORA (ABELIA CHINENSIS)
20% SHRUB SPECIES: BOJ (BUXUS SEMPERVIERENS)

VEGETATION 02
SCALE: 1 : 5



20% SHRUB SPECIES: BOJ (BUXUS SEMPERVIERENS)

80% FLOWERING SHRUBS SPECIES: ABELIA GRANDIFLORA (ABELIA CHINENSIS)

- LEGEND:
- ① VEGETATION
 - ② PLAYGROUND AREA 01-02:
A: PLAYCUBES 1.1C (SEE DETAILS)
B: ROTATION CAROUSEL (SEE DETAILS)
C: TIMBER GLEN (SEE DETAILS)
D: PASEO SIMPLE (SEE DETAILS)
E: THE HORSE (SEE DETAILS)
F: PASEO SIMPLE (SEE DETAILS)
G: ESQUI DE FONDO (SEE DETAILS)
H: TWO-SEATER SWING (SEE DETAILS)
I: WAVE RIDER SEESAW (SEE DETAILS)
J: RED PYRAMID (SEE DETAILS)
K: CLIMBER (SEE DETAILS)
L: IRIS HOUSE (SEE DETAILS)
M: MULTIACTIVITIES LA TORRETA (SEE DETAILS)
N: SUPER SPROUT (SEE DETAILS)
O: GRANITE BOULDER (SEE DETAILS)
 - ③ MAZE
 - ④ LANDSCAPE
 - ⑤ SITE FURNISHINGS

IMPORTANT:
ALL PLAYGROUNDS SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRANDS: PLAYWORLD, ULTRAPLAY AND GRUPFABREGAS. THEY CAN BE REPLACED BY SIMILAR MODELS.

ALL PLAYGROUNDS FLOOR (COVERED WITH PEA GRAVEL) SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRAND: AMERICAN LANDSCAPE SUPPLY. IT CAN BE REPLACED BY OTHER BRANDS.

PLAYGROUND AND LANDSCAPE
BEFORE PLACING ALL PLAYGROUNDS AND LANDSCAPE AREA ALL THE EXISTING LAWN MUST HAVE TO BE REMOVED, NATURAL SOIL MUST HAVE TO BE COMPACTED BY 90% AND PREPARED THE GROUND FOR A NEW LAWN.
NOTE: PLEASE FOLLOW A GARDENER RECOMMENDATIONS ABOUT BEST TIME IN YEAR TO START LAY TURF.

VEGETATION 01 - VEGETATION 02
PLACE MEDIUM BUSHES FORMING A WALL. WHERE 80% OF BUSHES MUST BE FLORAL AND THE REMAINING 20% BUSHY SHRUBS. MINIMUM SHRUBS HEIGHT REQUIRED: 3 ft.

PLAYGROUND 01 - PLAYGROUND 02:
BEFORE PLACING PEA GRAVEL OR SIMILAR, PLAYGROUNDS MUST HAVE THE FOLLOWING REQUIREMENTS INSTALLED FROM DETAILS. SHEET A-13

MAZE (ADA ACCESSIBLE): ③
PLEASE VERIFY INSTALLATION REQUIREMENTS AND DETAILS ON SHEET A-14

LANDSCAPE 01 - LANDSCAPE 02:
PLACE SIMILAR TREES ④ AS DESCRIBED IN DETAILS LANDSCAPE. SEE SHEET A-13

SITE FURNISHINGS: ⑤
INSTALL SITE FURNISHINGS AS DESCRIBE IN PLANS OR SIMILAR. SEE SHEET A-16

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
PLAYGROUND AREA 01 AND 02
SCALE : 1:5

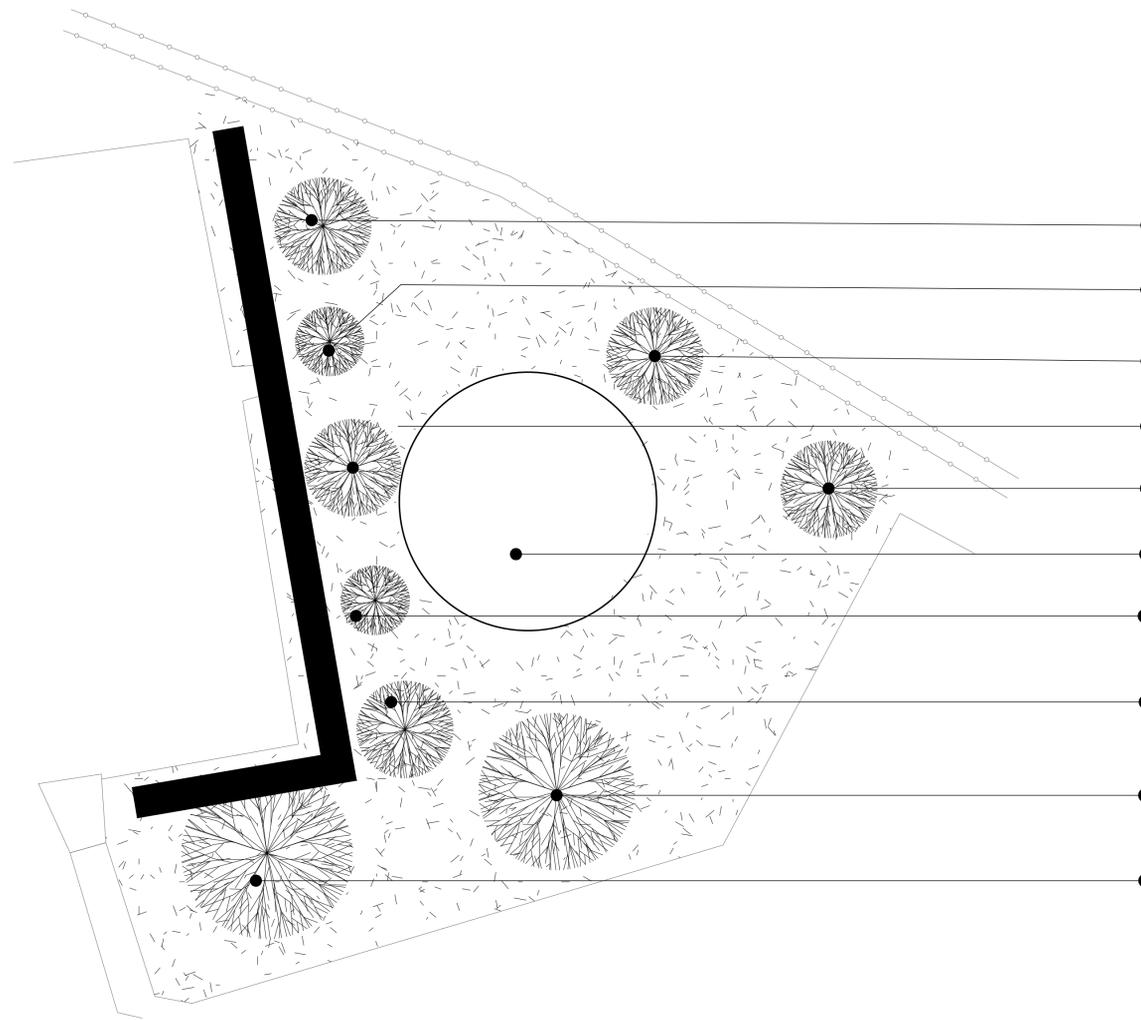
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PROPOSED PLAN
PLAYGROUND AREA 01 AND 02
ARCHITECTURAL SITE PLAN VIEW

IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY
PR-CPP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

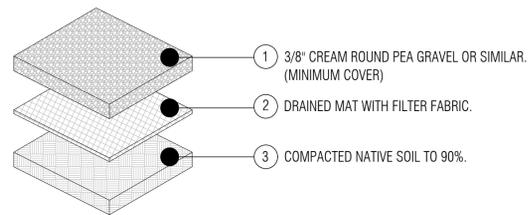
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- GUAYACUM OFFICINALE.
- MOCA (ANDIRA INERMIS).
- WHITE CEDAR (TABEBUIA HETEROPHYLLA).
- JAGUA (GENIPA AMERICANA).
- WHITE CEDAR (TABEBUIA HETEROPHYLLA).
- PLAYGROUND FLOOR COVERED WITH PEA GRAVEL OR SIMILAR (SEE DETAILS BELOW).
- GUAYACUM OFFICINALE
- MOCA (ANDIRA INERMIS).
- HIGUERO DE SIERRA (CRESCENTIA PORTORICENSIS).
- JAGUA (GENIPA AMERICANA).

LANDSCAPE 01
SCALE: 1/4

PEA GRAVEL OR SIMILAR INSTALLATION DETAIL:



PEA GRAVEL DETAIL
SCALE: 1/4

NOTE:
ALL PLAYGROUND FLOOR COVERED WITH PEA GRAVEL OR SIMILAR (SEE DETAILS).

PLAYGROUND AND LANDSCAPE

BEFORE PLACING ALL PLAYGROUNDS AND LANDSCAPE AREA ALL THE EXISTING LAWN MUST HAVE TO BE REMOVED, NATURAL SOIL MUST HAVE TO BE COMPACTED BY 90% AND PREPARED THE GROUND FOR A NEW LAWN.

NOTE: PLEASE FOLLOW A GARDENER RECOMMENDATIONS ABOUT BEST TIME IN YEAR TO START LAY TURF.

LANDSCAPE 01 - LANDSCAPE 02:

PLACE SIMILAR TREES ④ AS DESCRIBED IN DETAILS LANDSCAPE. SEE SHEET A-13 IMPORTANT:

ALL PLAYGROUNDS SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRANDS: PLAYWORLD, ULTRAPLAY AND GRUPFABREGAS.

THEY CAN BE REPLACED BY SIMILAR MODELS.

ALL PLAYGROUNDS FLOOR (COVERED WITH PEA GRAVEL) SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRAND: AMERICAN LANDSCAPE SUPPLY. IT CAN BE REPLACED BY OTHER BRANDS.

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
PLAYGROUND AREA 01
Scale: 1/5

CONSULTANT

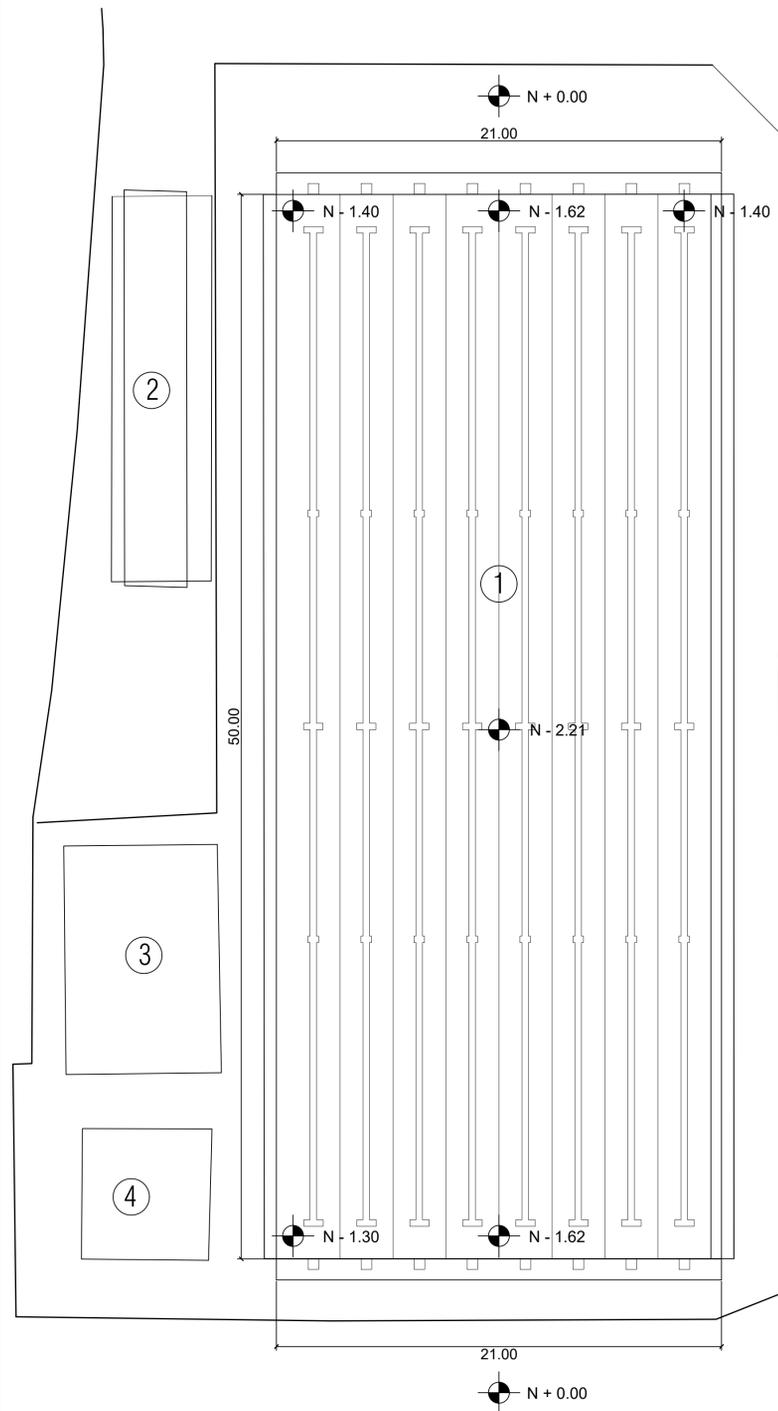
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PROPOSED PLAN
PLAYGROUND AREA 01
ARCHITECTURAL SITE PLAN VIEW

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CFP-000885
MUNICIPIO DE COROZAL, PUERTO RICO 00783

PHASE
ARCHITECTURAL
PROPOSED PLAN

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NOTE: ATHLETIC POOL DETAILS IN PAGE A-12

LEGEND:

- ① ATHLETIC POOL
- ② BLEACHERS
- ③ POOL MECHANICAL ROOM
- ④ WARMING POOL

TECHNICAL SPECIFICATIONS DIAGNOSTIC

STRUCTURAL DIAGNOSTIC

POOL SURFACE

THE POOL CURRENTLY HAS A MOSAIC LINING WHICH HAS BEEN OUT IN THE WEATHER FOR A LONG TIME AND NEEDS TO BE REPLACED. THE DIAGNOSIS CONSISTS OF REVIEWING WHAT IS INVOLVED IN REMOVING THAT MATERIAL. THIS MATERIAL MUST BE REMOVED MECHANICALLY USING SQUARE TIP ROTARY HAMMERS, TO REMOVE COATING AND ADHESIVE.

IN THIS REMOVAL PART OF THE CONCRETE STRUCTURE OF THE WALLS OR FLOOR MAY DETACH, WHICH MUST BE REPAIRED DEPENDING ON THE CASE WITH A THIN OR THICK LAYER MORTAR ACCORDING TO THE CASE, THE CONTRACTOR MUST SUBMIT THE MATERIAL AND PROCEDURE TO BE USED.

THE EXISTENCE OF POSSIBLE CRACKS IN THE STRUCTURE OF THE POOL SHOULD BE CONSIDERED, THEY SHOULD BE REPAIRED ACCORDING TO THE DETAILS PRESENTED ON SHEET A-11.

POOL SIDEWALK

THE PERIMETER SIDEWALK SHOULD BE INSPECTED TO DETERMINE IF THERE ARE CRACKS IN THE SLAB. ADDITIONALLY, THE SLOPES MUST BE VERIFIED AND THE SAME MUST BE WITH A SLOPE TOWARDS EXISTING STEEL SINKS FOR RAINWATER DRAINAGE.

THE ENTIRE SIDEWALK MUST BE CLEANED WITH A PRESSURE WATER MACHINE TO REMOVE ALL ORGANIC RESIDUE, DUST, GREASE, ETC. FOR THE CORRECT ADHESION OF THE SIDEWALK COATING.

HIDRAULIC DIAGNOSTIC

THE POOL HAS A SERIES OF PIPES THAT MUST BE IDENTIFIED AND PRESSURE TESTED TO DETERMINE THEIR CONDITION. PRESSURE TESTING OF ALL PIPING SHOULD BE PERFORMED AT A PRESSURE OF 30 PSI FOR 1 FULL DAY. IN THE EVENT OF PRESSURE LOSS IN A PIPE THE CONTRACTOR MUST PROPOSE A SOLUTION, WHICH AMONG THE OPTIONS INCLUDE:

- USE SCANNER OR PROBE TO DETERMINE LOCATION OF LEAK AND PROCEED TO REPAIR, SUBJECTING THE PROCESS TO BE CARRIED OUT AND DESIGNER AUTHORIZATION.
- CLOSURE EXISTING PIPE AND PLACE NEW PIPE WITH THE DIMENSIONS AND CALIBER EQUAL OR HIGHER THAN THE EXISTING ONE.

IN EITHER OF THE TWO CASES WHERE THE INTEGRITY OF THE STRUCTURE IS AFFECTED, A RESTORATION PROCEDURE MUST BE SUBMITTED AS APPROPRIATE AND EXECUTED WITH PRIOR DESIGNER APPROVAL.

EXISTING WHITE EQUIPMENT AND ELEMENTS MUST BE REPLACED WITH ITEMS SIMILAR OR SUPERIOR TO THE EXISTING ITEMS

LIGHTING DIAGNOSIS

THE POOL HAS SOME LIGHTING POINTS THESE MUST BE CHECKED AND ALL THE EXISTING LAMPS MUST BE REMOVED, WHEN DOING THIS THESE PIPES MUST BE LEAVED FOR THE PLACEMENT OF NEW LAMPS.

THE EXISTING LAMP NICHES MUST BE REVIEWED AND VERIFIED THAT THEY ARE FUNCTIONAL, IT MUST BE VERIFIED THAT THEY ARE COMPATIBLE WITH THE NEW MODEL OF LAMP TO BE USED INTELLIBRITE 5G LED BRAND PENTAIR.

CHECK THE CONDITION OF THE PASSAGE BOXES OF EACH LAMP, THEY ARE NOT DAMAGED AND HAVE THEIR CLOSING COVERS.

REMODELING

POOL MECHANIC ROOM

THE MECHANICAL ROOM OF THE POOL MUST BE COMPLETELY RESTORED.

- EXISTING EQUIPMENT MUST BE REMOVED AND DISPOSED OF IN FOLLOWING STATE HEALTH REGULATIONS. AMONG THE EQUIPMENT ARE PUMPS, FILTER TANKS, CORONATION TANKS AND INTERCONNECTING PIPES BETWEEN THEM. THE LIGHT TRANSFORMERS MUST BE REMOVED AND EACH OF THEIR ELECTRICAL SUPPLY, FOLLOWING ALL SAFETY PROTOCOLS.

- THE EXISTING COMPENSATION TANK MUST BE REPAIRED FOR SOME CRACKS AND THE STEEL THAT IS EXPOSED. THIS SHOULD BE DONE WITH A LATICRETE 3701 MORTAR OR SIMILAR. AFTER THIS LAYER OF MORTAR IT MUST BE WATERPROOFED WITH SIKALASTIK 1K CEMENTIC OR SIMILAR. IN BOTH CASES FOLLOWING THE MANUFACTURER'S RECOMMENDATION.

- THE MAIN POWER ELECTRICAL WIRING MUST BE REVIEWED AND IF IT DOES NOT COMPLY WITH WHAT IS SPECIFIED IN THE DRAWINGS, IT MUST BE REPLACED.

- THE METAL SECURITY DOOR OF THE STORAGE ROOM MUST BE REPLACED WITH A NEW SIMILAR OR BETTER ONE.

- ALL WALLS AND FLOORS ARE TO BE CLEARED OF EXISTING MATERIALS, REFURBISHED WITH NEW PLASTER AND PAINT WHERE INDICATED, FLOORS ARE TO HAVE A BRUSHED CONCRETE FINISH

- THE BASES MUST BE BUILT FOR EACH OF THE PUMPS TO BE INSTALLED ACCORDING TO THE MACHINE ROOM DRAWINGS PRESENTED (A-11).

- INSTALL ALL PUMPS, FILTERS, CHLORINATION AND SANITIZATION SYSTEMS, LAMPS AND PANELS ACCORDING TO DRAWING SPECIFICATION.

ATHLETIC POOL

IN THE POOL IT SHOULD START FROM THE REMOVAL OF ALL THE EXISTING FINISHING MATERIAL FOLLOWING THE PLAN AFTER THE DIAGNOSIS HAS BEEN CARRIED OUT.

THE ENTIRE POOL MUST BE WATERPROOFED (SLAB, WALLS AND PERIMETER CHANNEL) WITH A SIKALASTIK 1K CEMENTIC WATERPROOFING FROM SIKA OR SIMILAR, FOLLOWING THE MANUFACTURER'S SPECIFICATIONS.

A WALL WILL BE ADDED TO THE PERIMETER CHANNEL TO CONVERT IT INTO A HIDDEN CHANNEL ACCORDING TO THE DESIGN SPECIFICATION PLATED ON THE PLAN.

ALL THE SPECIFIED ELEMENTS ARE PLACED ON PLANS (BACKGROUND GRILLS, RETURN NOZZLES) AS WELL AS THE LAMPS.

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THE COATING TO PLACE IN THE POOL IS DIAMOND BRITE BRAND SGM OR SIMILAR. THE COLOR IS WHITE BASE AND BLUE QUARTZ STONES. THE RAILS WILL BE PLACED IN SGM BRAND DIAMOND BRITE OR SIMILAR WITH BLACK OR DARK BLUE BASE COLOR.

PROCEDURE TO PLACE COATING

- A LEVEL AND CLEAN SURFACE MUST BE HAVE AFTER THE EXISTING FINISH REMOVAL WORK.
- AN INITIAL COAT OF BOND KOTE BRAND SGM OR SIMILAR MUST BE PLACED, FOLLOWING THE MANUFACTURER'S SPECIFICATIONS.
- IT STARTS WITH THE PLACEMENT OF BLACK DIAMOND BRITE ON THE MARKED RAILS AT THE BOTTOM OF THE POOL, FOLLOWING THE DIMENSIONS PLASTED ON THE PLANS.
- THEN THE WHITE DIAMOND BRITE LINER IS PLACED ON THE REST OF THE POOL. THE EXECUTION OF THIS WORK MUST BE CARRIED OUT FOLLOWING THE APPLICATION PARAMETERS ACCORDING TO THE MANUFACTURER. IF THE INSTALLED AND SET COATING IS LEFT OUTDOOR WITHOUT WATER, IT MUST BE COVERED AND MOISTURED TO AVOID POSSIBLE CRACKS CAUSED BY HIGH TEMPERATURES.
- THE SETTING PERIOD OF THE FINISH IS APPROXIMATELY 4 TO 6 HOURS DEPENDING ON THE WEATHER CONDITIONS AT THE TIME OF INSTALLATION.
- THEN THE POOL IS FILLED WITH WATER, IT MUST BE CLEAN WATER FROM A KNOWN SOURCE.

WARMING POOL

THE FINISH REMOVAL AND ELEMENT VERIFICATION PROCEDURE MUST BE FOLLOWED THE SAME FOR THIS POOL.

THE INSTALLATION OF ALL POOL ELEMENTS WILL BE CARRIED OUT (BOTTOM, SKIMMER AND RETURN NOZZLES)

IT WILL BE WATERPROOFED WITH SIKA'S SIKALASTIC 1K PRODUCT OR SIMILAR FOLLOWING THE MANUFACTURER'S SPECIFICATIONS.

SGM BRAND BOND KOTE COATING ADHERENT OR SIMILAR WILL BE PLACED, FOLLOWING THE MANUFACTURER'S SPECIFICATIONS.

SGM BRAND DIAMOND BRITE FINAL COATING WILL BE PLACED IN WHITE BASE COLOR AND BLUE QUARTZ STONES, ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

POOL EQUIPMENT

ATHLETIC POOL FILTRATION AND SANITIZATION

FOR THE FILTRATION OF THE ATHLETIC POOL, 10 KITS WILL BE SUPPLIED AND PLACED IN SERIES (WHISPERFLOXF PUMP VS COMMERCIAL PUMP BRAND PENTAIR, CLEAN & CLEAR PLUS CCP 420 FILTER BRAND PENTAIR. THE PLACEMENT IS ACCORDING TO THE DIAGRAM PRESENTED ON SHEET A-11

FOR SANITIZATION, 3 UNITS OF THE BIOSHIELD PRO UV SYSTEM WILL BE SUPPLIED AND PLACED, MODEL 523576, PENTAIR BRAND.

CHLORINATION WILL BE CARRIED OUT USING SALT AND 5 COMSYS-16 COMMERCIAL INTELLICHLOR SYSTEMS WILL BE SUPPLIED AND PLACED (1 PRIMARY IC60 CELL AND 7 SECONDARY CELLS) THESE 5 SYSTEMS WILL BE PLACED THROUGHOUT THE CONFIGURATION.

A PENTAIR BRAND COMMERCIAL INTELLICHEM CHEMICAL CONTROL SYSTEM MUST BE SUPPLIED AND INSTALLED FOR REAL CONTROL AND MONITORING OF THE PH, ORP, CPPM OF SALT AND TEMPERATURE VALUES.

WARNING POOL FILTRATION AND SANITIZATION

FOR THE FILTRATION OF THE WARNING POOL, 1 KITS WILL BE SUPPLIED AND PLACED IN SERIES (INTELLIFLO VSF PUMP BRAND PENTAIR, CLEAN & CLEAR PLUS CCP 240 FILTER BRAND PENTAIR. THE PLACEMENT IS ACCORDING TO THE DIAGRAM PRESENTED ON SHEET A-11

FOR SANITIZATION, 1 UNITS OF THE BIOSHIELD UV SYSTEM WILL BE SUPPLIED AND PLACED, PENTAIR BRAND.

CHLORINATION WILL BE CARRIED OUT USING SALT AND 1 COMSYS-4 COMMERCIAL INTELLICHLOR SYSTEMS WILL BE SUPPLIED AND PLACED (1 PRIMARY IC60 CELL AND 1 SECONDARY CELLS) THES SYSTEMS WILL BE PLACED THROUGHOUT THE CONFIGURATION.

POOL LIGHTING

36 INTELLIBRITE POOL COLOR LAMPS 12 V 28W - 150 FT CABLE WILL BE SUPPLIED AND INSTALLED IN THE EXISTING NICHES AND AFTER CONFIRMATION OF COMPATIBILITY WITH THE LIGHTS.

THESE 36 LAMPS WILL BE CONNECTED, IN A GROUP OF 6 UNITS MAXIMUM, TO A 300 W 120V - 12V TRANSFORMER. EACH TRANSFORMER WILL BE CONTROLLED BY A PENTAIR BRAND COLOR SYNC CONTROL.

GENERAL NOTE: ALL MECHANICAL AND ELECTRICAL INSTALLATION OF THIS EQUIPMENT MUST FOLLOW THE INSTALLATION RECOMMENDATIONS BY THE MANUFACTURER.

OPERATION

THE OPERATION AND FUNCTIONING OF THE EQUIPMENT IN THIS TYPE OF POOLS IS CONSTANT AND ITS CONFIGURATION DEPENDS ON THE BATHING HOURS AT WHICH IT WILL BE FOR THE BATHERS. THESE EQUIPMENT ARE MORE EFFICIENT WORKING AT 50% OF THEIR CAPACITY AND FOR LONG TIMES.

RECOMMENDATION THE PUMPS SHOULD BE CONFIGURED:

OPERATING TIME: 24 HOURS - 7 DAYS A WEEK

OPERATING SPEED:

ATHLETIC POOL PUMPS 2500 RPM - 150 GPM

WARNING POOL PUMP 1500 RPM - 60 GPM

THE LIGHTS WILL BE ON MANUALLY ON THE DAYS OF NIGHT USE OF THE POOL, NIGHT USE SHOULD NOT BE ALLOWED WITHOUT THE LIGHTS ON.

MAINTENANCE

POOL EQUIPMENT

THE FREQUENCY OF MAINTENANCE OF THE FILTRATION EQUIPMENT WILL BE DETERMINED BY THE NUMBER OF BATHERS AND THE AMOUNT OF DIRT ACCUMULATED IN THE FILTERS, THE FILTER PRESSURE GAUGE SHOULD BE CONSTANTLY REVIEWED, SINCE THIS IS AN INDICATOR OF WHEN IT SHOULD BE PERFORM MAINTENANCE.

FILTERS AND PUMPS SHOULD NOT EXCEED 5 DAYS WITHOUT PERFORMING MAINTENANCE, WHICH INCLUDES THE CLEANING OF THE BASKET IN PUMPS AND CLEANING OF THE CARTRIDGES IN THE FILTERS.

AN ADDITIONAL 8 FILTER SPARE PARTS CARTRIDGE CODE R173576 MUST BE SUPPLIED SO THAT THE MAINTENANCE OPERATOR CAN REPLACE TWO FILTERS, CONTINUE IN OPERATION WHILE CLEANING THE CARTRIDGES OF THESE TWO FILTERS.

THE INTELICHEM MUST VERIFY THE MURIATIC ACID LEVELS IN THE RESERVOIR TANK FOR PH CONTROL AND VERIFY THE SALT PPM LEVELS FOR SALT CHLORINATION SYSTEMS.

THE NORMAL PARAMETERS OF A POOL ARE

PH: 7.2 - 7.6

SALT: 3600 - 4000 mg/l

RESIDUAL FREE CHLORINE: 0.5 - 1.5 PPM

ALKALINITY: 80 - 120 PPM

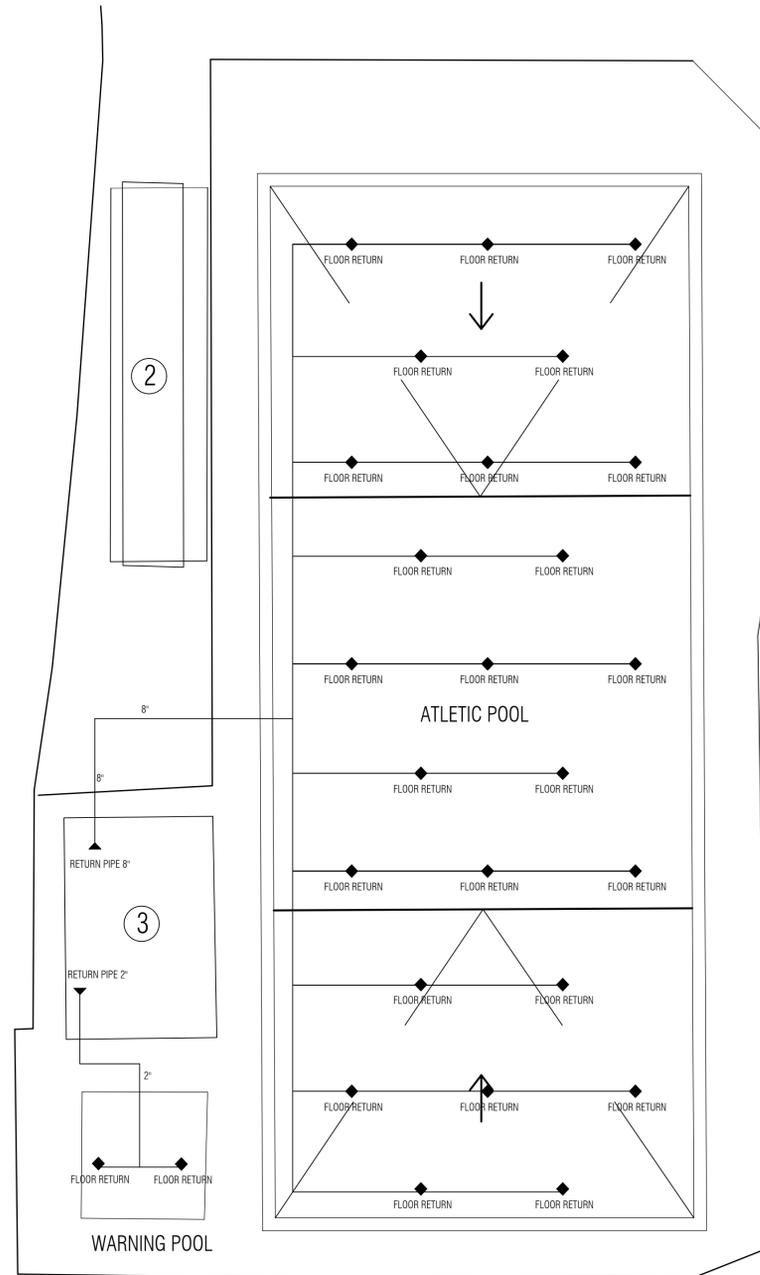
ATHLETIC POOL AND WARNING POOL

TO MAINTAIN THESE POOLS YOU MUST HAVE A PORTABLE MAINTENANCE KIT THAT CONTAINS PUMP, FILTER, HOSE, VACUUM CLEANER, BRUSH, BASKET, WAND AND WATER CHEMISTRY TEST.

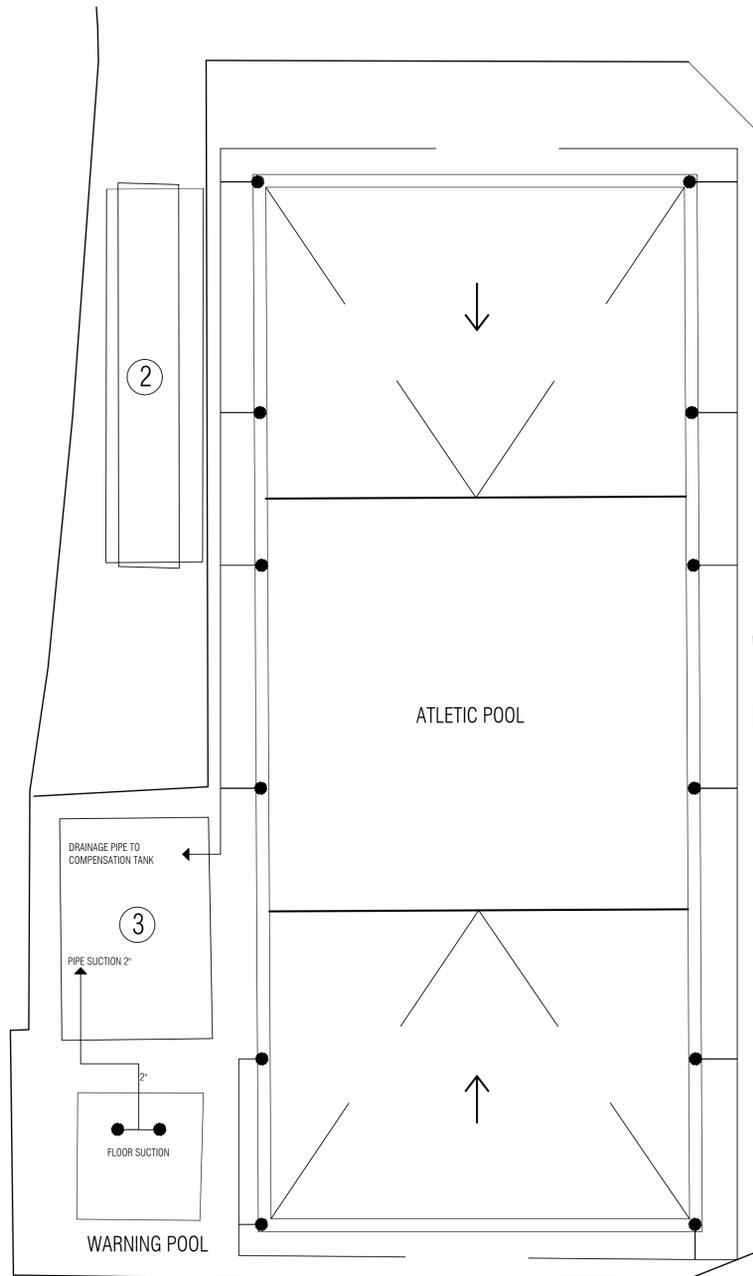
- INITIALLY THE WATER CHEMISTRY IS REVIEWED AND THE DOSAGE OF CHEMICALS IS CARRIED OUT.
- A COLLECTION OF LEAVES AND OBJECTS IS MADE WITH THE BASKET
- BRUSHING OF THE WALLS AND FLOOR OF THE POOL BOTTLE IS CARRIED OUT TO REMOVE ANY ATTACHED SLIM OR RESIDUE.
- VACUUMING IS CARRIED OUT OF ALL PARTICLES THAT ARE CONCENTRATED AT THE BOTTOM OF THE POOL.
- A CHEMICAL REVIEW OF THE WATER IS CARRIED OUT AGAIN.
- EVERYTHING DONE IS NOTED IN A MAINTENANCE RECORD.

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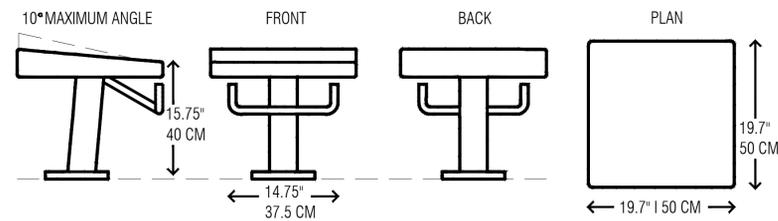
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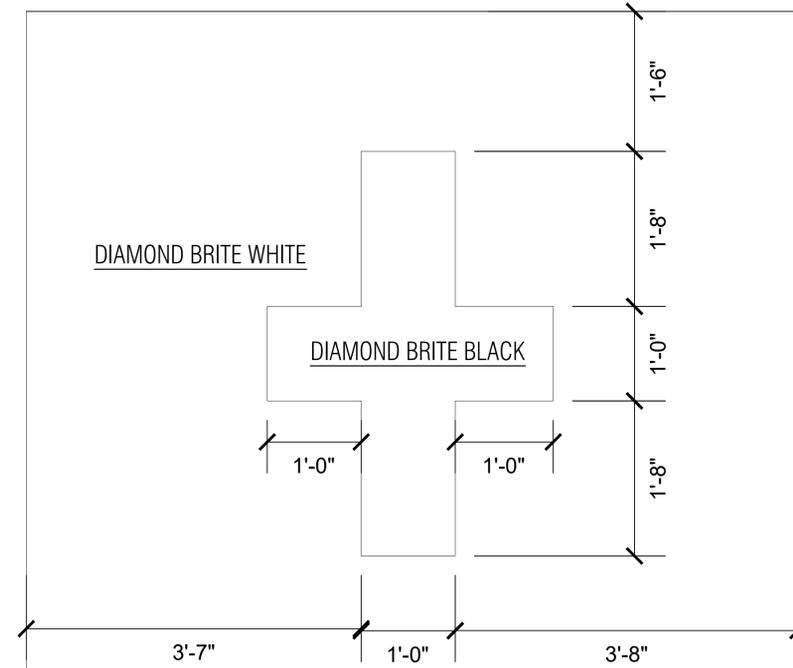
MECHANICAL INSTALLATIONS PLANT - RETURNS
Scale: N/S



MECHANICAL INSTALLATIONS PLANT - SUCTIONS
Scale: N/S



STARTING BLOCKS - TRACKSTART PLUS PLATAFORM
Scale: N/S

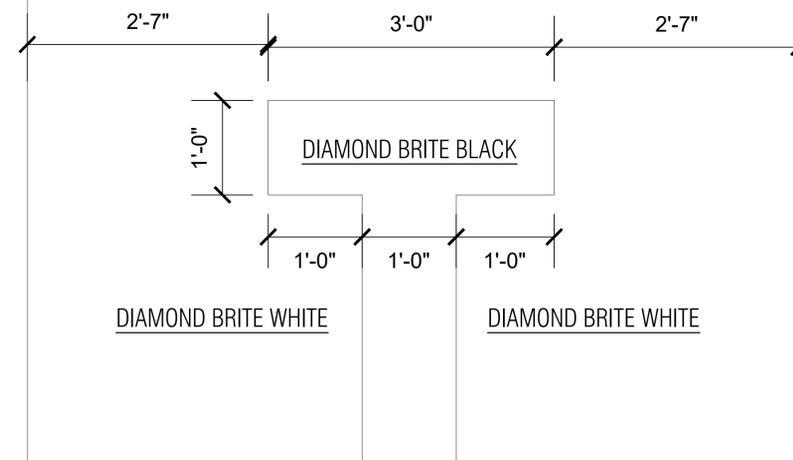


WALL LANE MARKING (8)

- THE MEASUREMENTS PRESENTED MUST BE MARKED.
- THE BLACK DIAMOND BRITE IS APPLIED INSIDE THE MARKED FIGURE, AFTER THE APPLICATION OF THE BOND KOTE.
- AFTER DRYING, IT MUST BE COVERED, SO THAT IT DOES NOT STAIN WHEN APPLYING THE DIAMOND BRITE AROUND.

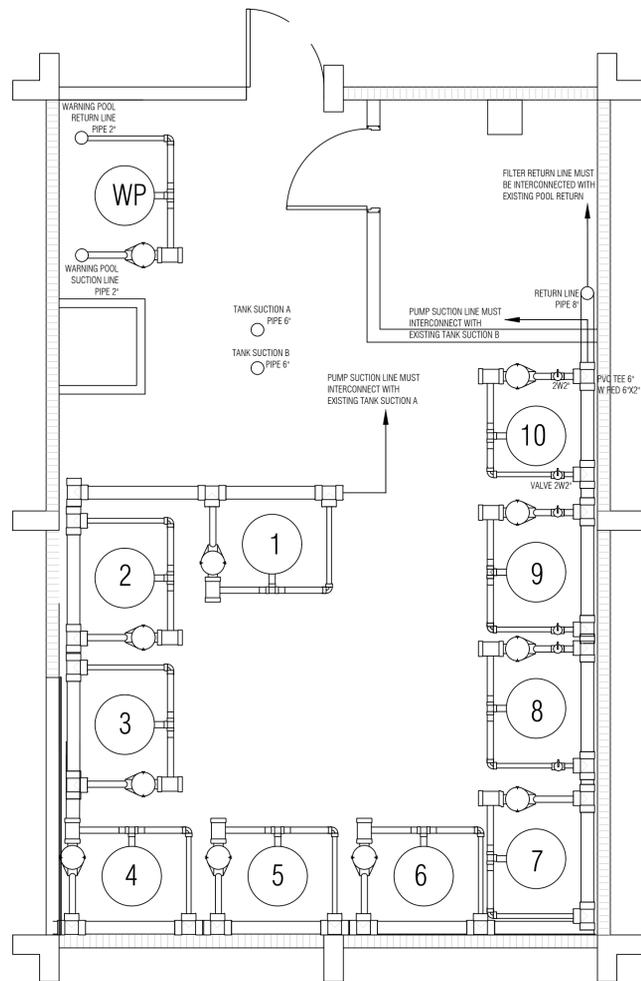
FLOOR LANE MARKING (8)

- THE MEASUREMENTS PRESENTED MUST BE MARKED.
- THE BLACK DIAMOND BRITE IS APPLIED INSIDE THE MARKED FIGURE, AFTER THE APPLICATION OF THE BOND KOTE.
- AFTER DRYING, IT MUST BE COVERED, SO THAT IT DOES NOT STAIN WHEN APPLYING THE DIAMOND BRITE AROUND.



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TECHNICAL DATA

ATHLETIC POOL

FINISHING AREA
FLOOR AREA: 1050 M² = 11302.11 FT²
WALL AREA: 237.20 M² = 2553.20 FT²
TOTAL AREA = 1287.20 M² = 13855.30 FT²

WATER VOLUME
1890 M³
498,960 GALLONS

FILTRATION FLOW (6 HOURS PER CYCLE)
1386 GPM

REFERENCE EQUIPMENT

FILTER PENTAIR
CLEAN & CLEAR CCP420
FLOW: 150 GPM
NUMBER OF FILTERS: 10 FILTERS

PUMP PENTAIR
WISPERFLOXF VS
COMMERCIAL VARIABLE SPEED PUMP 5HP
NUMBER OF PUMPS: 10 PUMPS

SANITIZATION
BIOSHIELD PRO UV SYSTEM 523526
NUMBER OF UV SYSTEM: 3 SYSTEM

CHLORINATION
INTELLICHLOR COMMERCIAL COMSYS-16
NUMBER OF CHLORINATOR: 5 COMSYS

CHEMICAL CONTROLLER
COMMERCIAL INTELICHEM

TECHNICAL DATA

WARNING POOL

FINISHING AREA
FLOOR AREA: 34 M² = 365.97 FT²
WALL AREA: 30 M² = 322.92 FT²
TOTAL AREA = 64 M² = 688.89 FT²

WATER VOLUME
42.5 M³
11,220 GALLONS

FILTRATION FLOW (6 HOURS PER CYCLE)
32 GPM

REFERENCE EQUIPMENT

FILTER PENTAIR
CLEAN & CLEAR CCP240
FLOW: 90 GPM
NUMBER OF FILTERS: 1 FILTERS

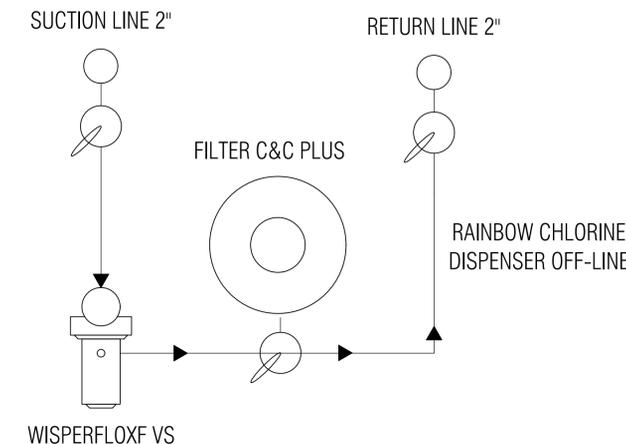
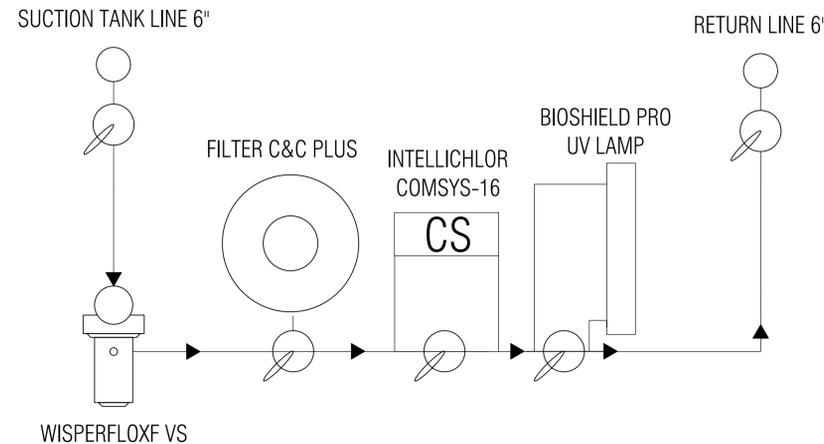
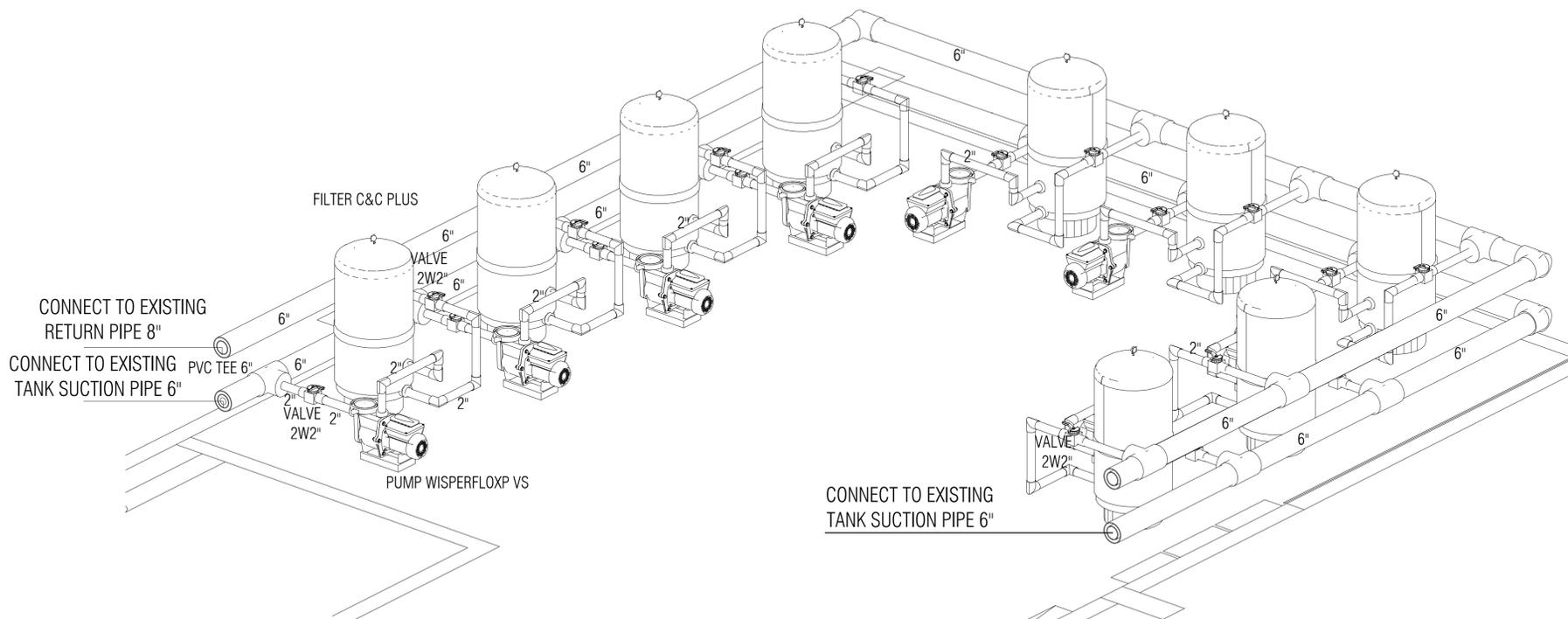
PUMP PENTAIR
INTELLIFLO VSF
COMMERCIAL VARIABLE SPEED PUMP 3HP
NUMBER OF PUMPS: 10 PUMPS

SANITIZATION
BIOSHIELD UV SYSTEM
NUMBER OF UV SYSTEM: 1 SYSTEM

CHLORINATION
INTELLICHLOR COMMERCIAL COMSYS-4
NUMBER OF CHLORINATOR: 1 COMSYS

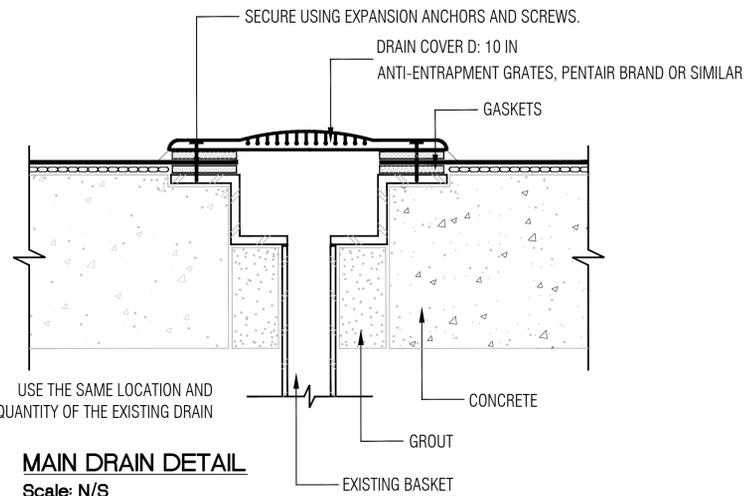
- 1 Bomba INTELLIFLO VS
- 10 Bombas WISPERFLOXF VS
- 1 System RAINBOW
- 11 Filter cartridge Clean and Clear Plus
- 36 Light intellibrite 5g LED Color - 12 v
- 6 Transformador de 120 VAC a 12 VDC 300w
- 6 Light controller and sysc 300w
- 3 Bioshield Pro Lamp UV
- 6 Intellichlor Comsys-16
- 1 Intellichlor Comsys - 4
- 6 Access Ladder
- 1 AquaTRAM Swimming Pool Access Lifts
- 14 Stainless Steel Commercial Cup Anchors
- 7 Competitor Anti-turbulent Racing Lanes 50 m

POOL EQUIPMENT LIST
Scale: S.E.

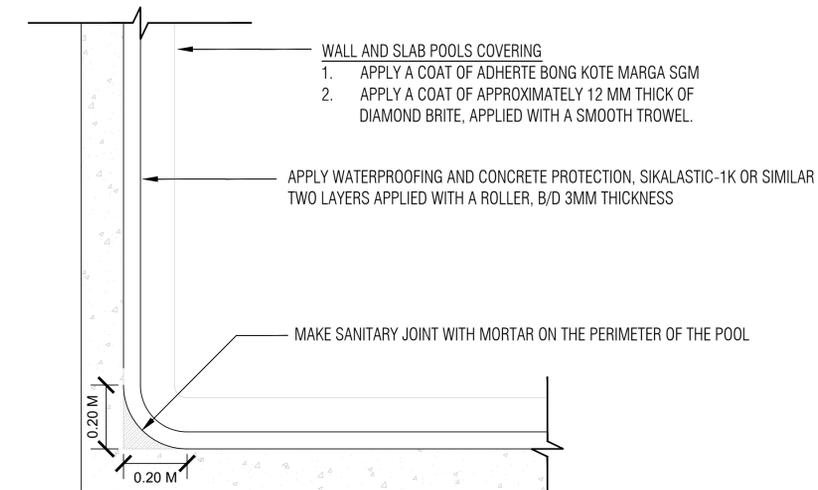


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ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEPT 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
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REVISION	DATE 6
REVISION	DATE 7

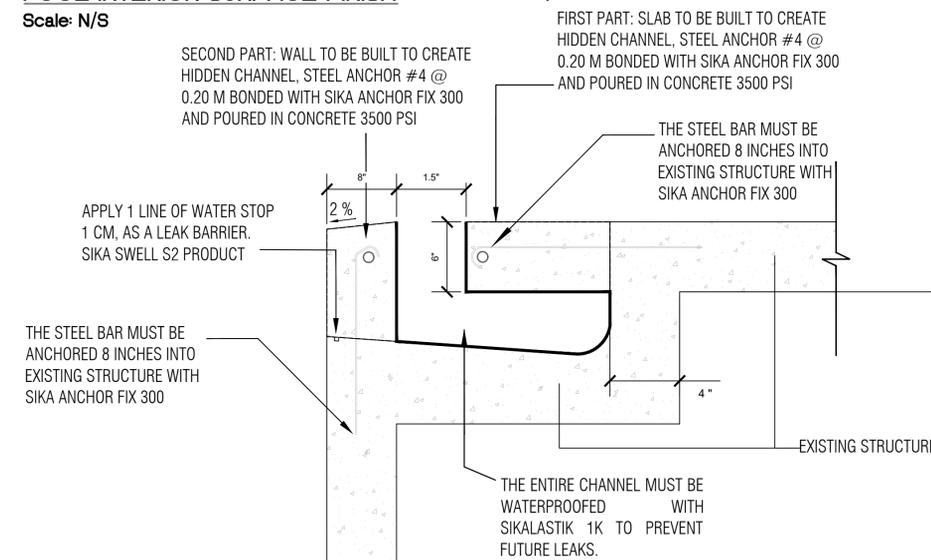
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MAIN DRAIN DETAIL
Scale: N/S



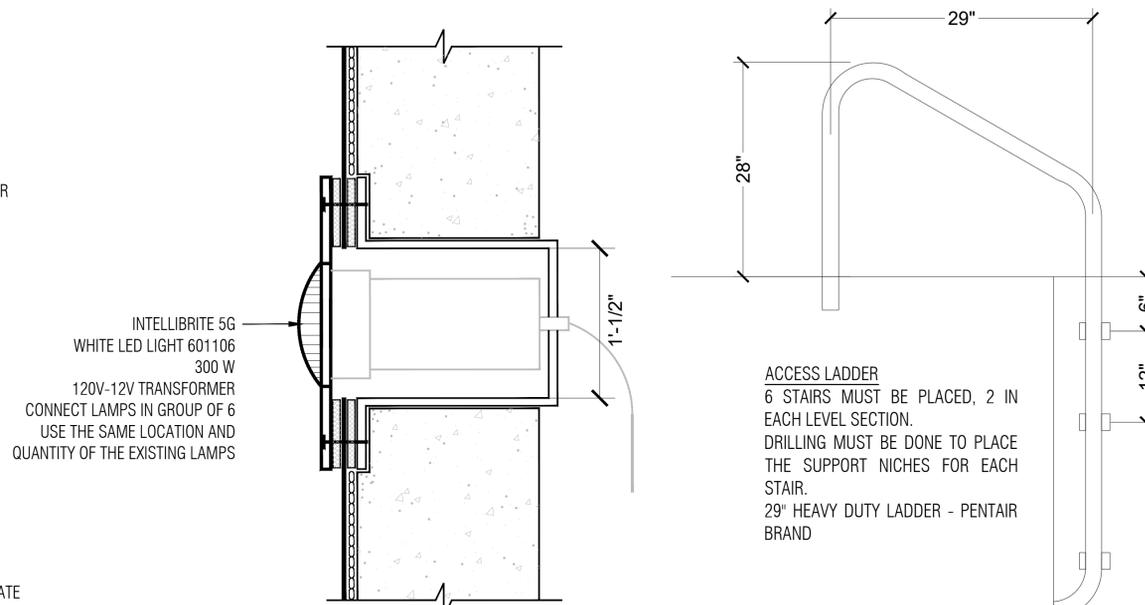
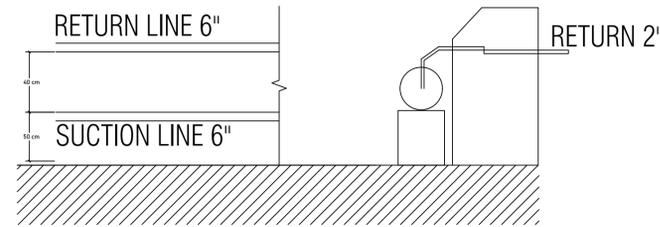
POOL INTERIOR SURFACE FINISH
Scale: N/S



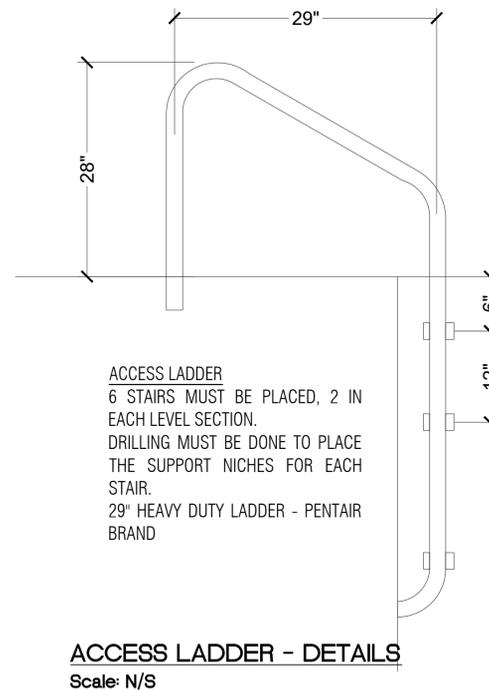
LATERAL OVERFLOW DIAGRAM
Scale: N/S

PENTAIR - WISPERFLOXF PUMP INSTRUCTIONS

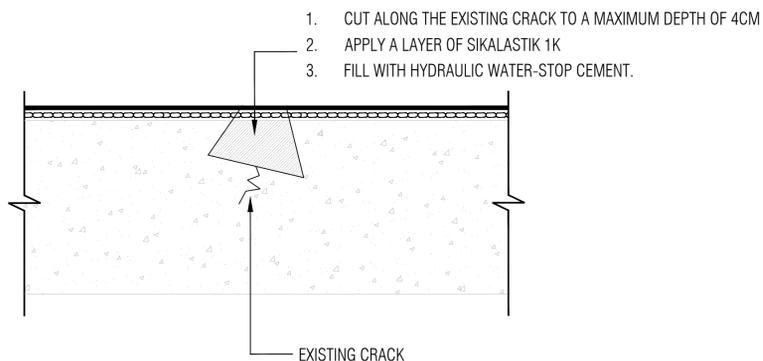
PEDESTAL FOR PUMPS IN CONCRETE IN A LOCATION OF 20CM HIGH X 20CM WIDTH X 40CM LONG.



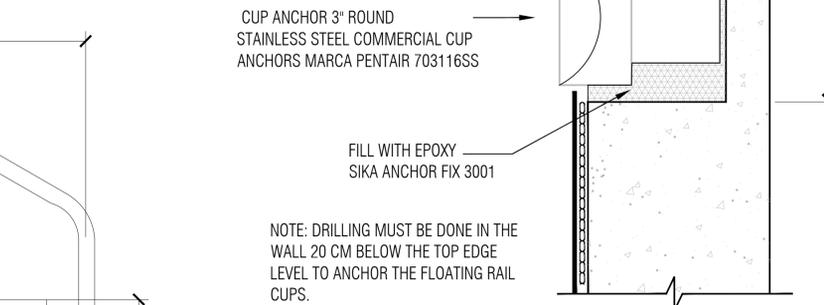
LIGHT DETAIL - REPLACE EXISTING
Scale: N/S



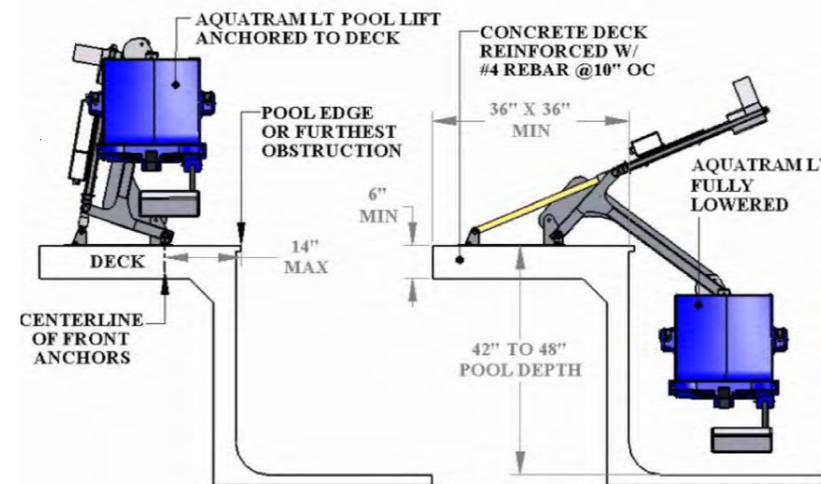
ACCESS LADDER - DETAILS
Scale: N/S



EXITING CRACKS IN ATHLETIC POOL
Scale: N/S



SECURING LANE LANES
Scale: N/S



ACCESS LIFTS - AQUATRAM PENTAIR
Scale: N/S

**IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
ATHLETIC POOL CONSTRUCTION REPAIR DETAILS**

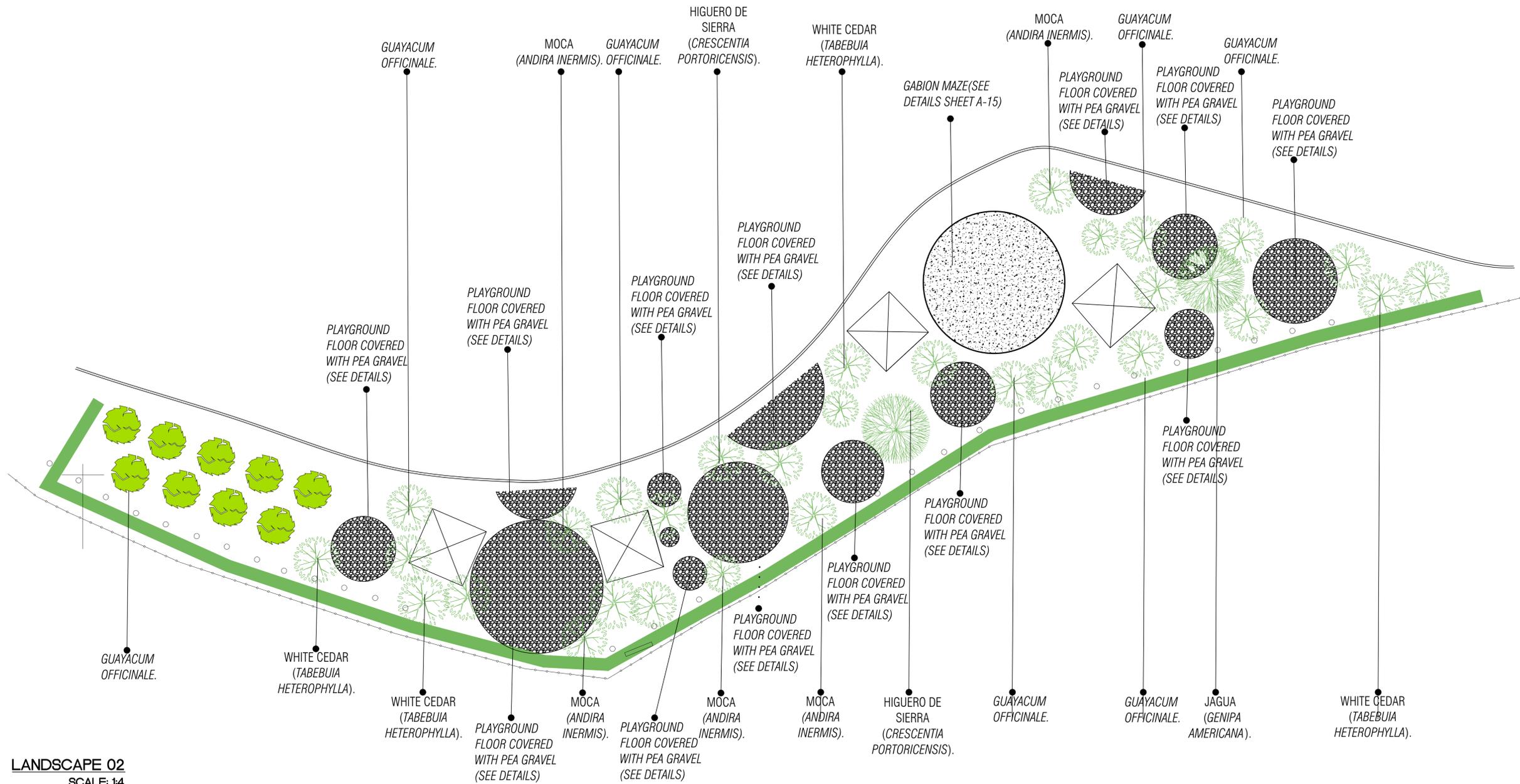
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**PROPOSED PLAN
ATHLETIC POOL CONSTRUCTION
REPAIR DETAILS**

**IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY**

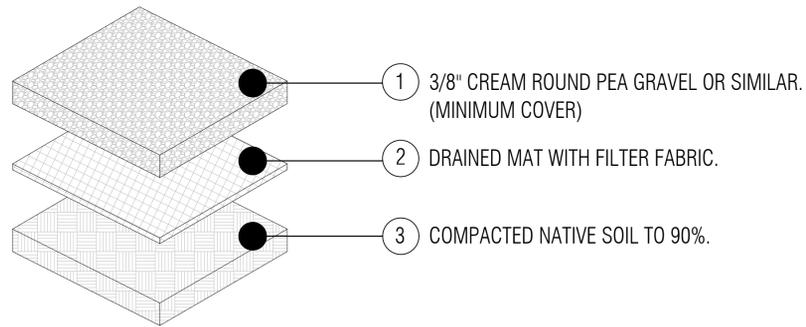
PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

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LANDSCAPE 02
SCALE: 1/4"

PEA GRAVEL OR SIMILAR INSTALLATION DETAIL:



PEA GRAVEL DETAIL
SCALE: 1/4"

PLAYGROUND AND LANDSCAPE

BEFORE PLACING ALL PLAYGROUNDS AND LANDSCAPE AREA ALL THE EXISTING LAWN MUST HAVE TO BE REMOVED, NATURAL SOIL MUST HAVE TO BE COMPACTED BY 90% AND PREPARED THE GROUND FOR A NEW LAWN.

NOTE: PLEASE FOLLOW A GARDENER RECOMMENDATIONS ABOUT BEST TIME IN YEAR TO START LAY TURF.

LANDSCAPE 01 - LANDSCAPE 02:

PLACE SIMILAR TREES ④ AS DESCRIBED IN DETAILS LANDSCAPE. SEE SHEET A-13

NOTE:
ALL PLAYGROUND FLOOR COVERED WITH PEA GRAVEL OR SIMILAR (SEE DETAILS).

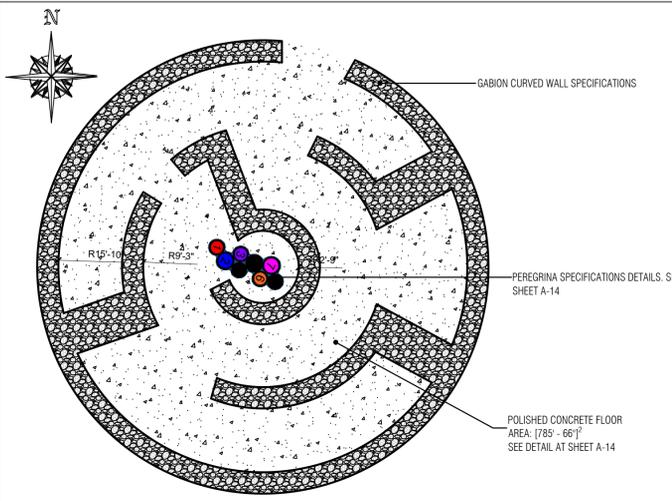
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PROPOSED PLAN
PLAYGROUND AREA 01 AND 02
LANDSCAPING DETAILS AND NOTES

IMPROVEMENT PROJECT
COROZAL SPORT COMPLEX
FACILITY
PR-OPP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

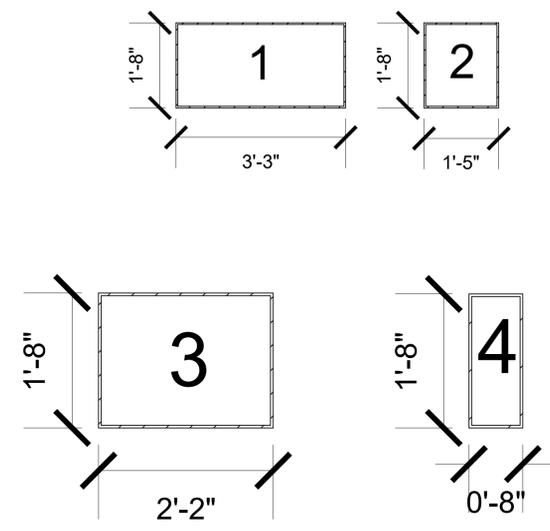
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3. GABION MAZE (ADA ACCESSIBLE)
SCALE: 1:2

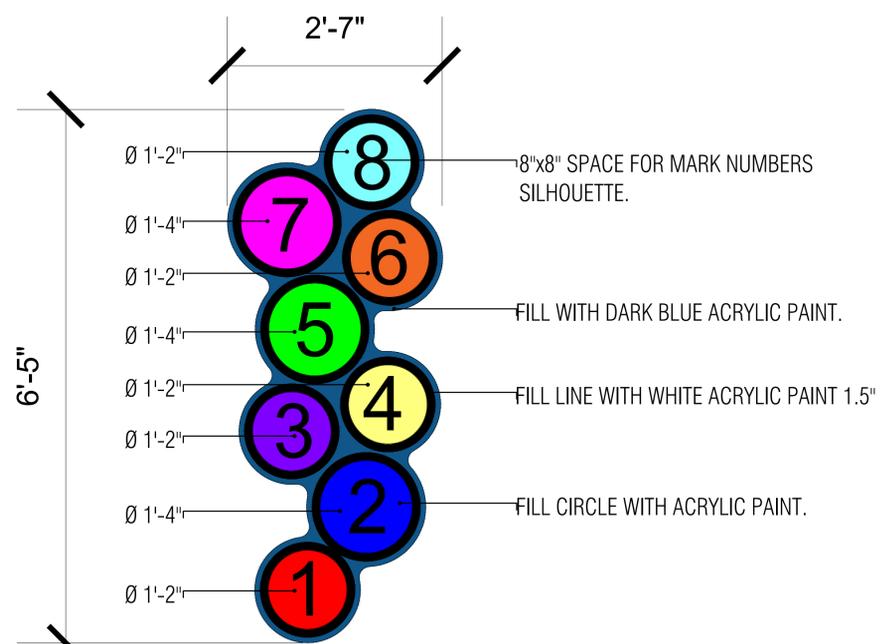
GABION BASKET POSITION
SCALE: 1:2

GABION ISOMETRIC



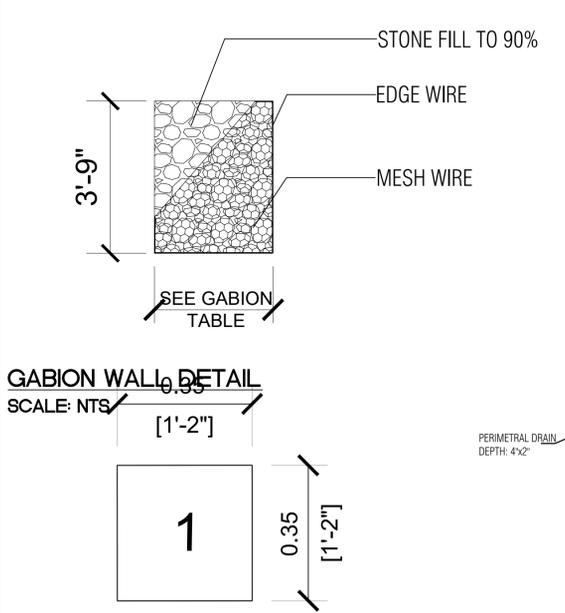
GABION BASKET SIZES (TOP VIEW)
SCALE: 2:1

GABION #	QTY.
1	45
2	9
3	7
4	1



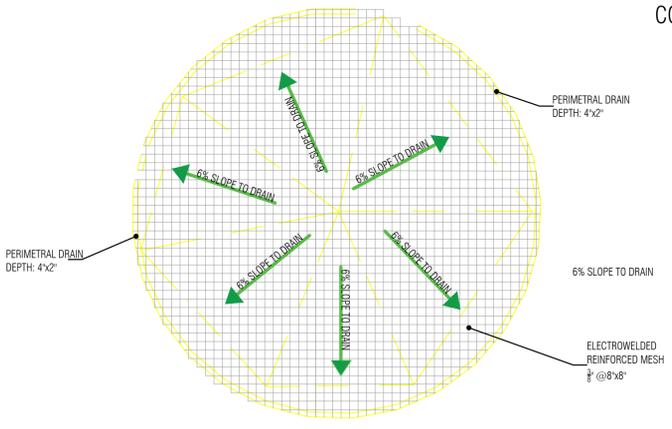
NOTE:
ALL THE COLORS USE IN MODEL ARE OPTIONAL. IT REQUIRED A PREVIOUS CONFIRMATION BY THE CLIENT.

HOPSCOTCH (PEREGRINA) SPECIFICATION
SCALE: 2:1

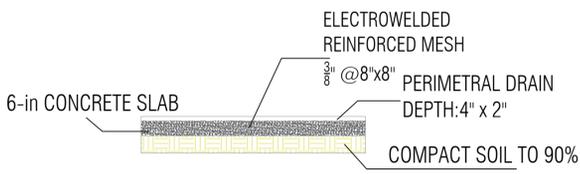


GABION WALL DETAIL
SCALE: NTS

NOTE:
ALL THE TRIANGLES FILLERS MEASUREMENTS MUST BE TAKEN AT THE INSTALLATION.
ALL GABION BASKETS HEIGHT: 3'-9"



MAZE CONCRETE FLOOR DETAIL (TOP VIEW)
SCALE: 1:2



MAZE CONCRETE FLOOR SECTION DETAIL
SCALE: NTS

GABION MAZE INSTALLATION

GABIONS SHOULD ONLY BE INSTALLED ONTO A SOLID BASE AND ALL ORGANIC MATERIAL THAT COULD DECAY NEEDS TO BE REMOVED TO LIMIT THE FUTURE SUBSIDENCE OF THE WALL. THE DEPTH EXCAVATION SHOULD BE NOT LESS THAN 10% OF THE TOTAL HEIGHT.

- CONNECTING BASKETS**
JOINING ADJACENT BASKETS IS IMPORTANT TO CREATE A STABLE WALL AND ENSURE THE WALL WORKS AS ONE. THIS CAN BE DONE USING THE LACING WIRE. PLACE THE ASSEMBLED MESH BASKETS IN POSITION AND LEVEL AS REQUIRED BY THE DESIGN. FORM THE JOINT TO THE ADJACENT UNITS VERTICALLY (LACING WIRE).
- FILLING**
FILL THE GABION BASKETS WITH THE CORRECTLY GRADED ROCK TYPE AS PER THE SPECIFICATION TO 90% OF THE GABION BASKET CAPACITY FOR HEIGHT FOR 3'-9" DEEP BASKETS.

GABION MAZE CONCRETE FLOOR SPECIFICATIONS

CONCRETE FLOOR MUST HAVE TO BE PLACING ONLY AT THE EXPOSED AREAS (AS SHOWN IN MODEL).

PEREGRINA (HOPSCOTCH)

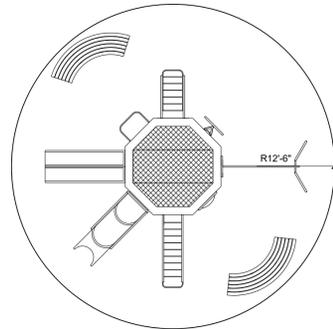
REQUIRED STEPS TO PAINT A HOPSCOTCH ON A CONCRETE FLOOR.

- CLEAN THE CONCRETE: SWEEP AND CLEAN THE CONCRETE SURFACE THOROUGHLY TO REMOVE DIRT, DUST AND DEBRIS FOR THE PAINT TO ADHERE PROPERLY.
- OUTLINE DE HOPSCOTCH: USING MEASURING TAPE, PAINTER'S TAPE OR RULER TO EN SURE THE LINES STRAIGHT FOLLOWING THE DIAMETER OF CIRCLES IN DETAILS.
- NUMBERS DESIGN: USING PAINTERS TAPE TO MARK THE NUMBERS SILHOUETTE IN EACH SQUARE APPROXIMATELY IN A SPACE OF 8"x8". NUMBERS WOULD BE IN CONCRETE FINISH.
- PAINT THE CIRCLES: USING A PAINTBRUSH OR PAINT ROLLER, APPLY CONCRETE ACRYLIC PAINT TO FILL THE CIRCLES, IT CAN USE DIFFERENT COLORS FOR EACH SQUARES (OPTIONAL). NEED TO APPLY MULTIPLE COATS OF PAINT FOR GOOD COVERAGE.
- ALLOW DRYING TIME: LET THE PAINT DRY COMPLETELY, FOLLOWING THE MANUFACTURER'S INSTRUCTIONS FOR DRYING TIME BETWEEN COATS.
- REMOVE PAINTER'S TAPE: ONCE THE PAINT IS DRY, CAREFULLY REMOVE ANY PAINTER'S TAPE.
- SEAL: APPLY A CLEAR CONCRETE SEALER OVER THE PAINTED SURFACE. THIS WILL PROTECT THE PAINT FROM WEAR AND TEAR AND WOULD INCREASE THE DURABILITY AND LONGEVITY OF THE HOPSCOTCH GRID.
- LET IT CURE: GIVE THE SEALER AMPLE TIME TO CURE AS PER THE MANUFACTURER'S RECOMMENDATIONS BEFORE ALLOWING KIDS TO PLAY ON THE HOPSCOTCH.

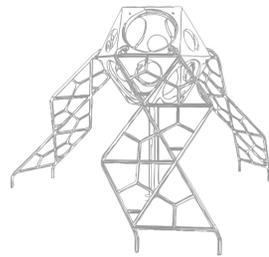
REMEMBER:
THE PAINT MAY WEAR DOWN OVER TIME DUE TO FOOT TRAFFIC AND WEATHER CONDITIONS, SO IT MIGHT NEED TO PERIODICALLY TOUHV UP AN D REPAINT THE HOPSCOTCH GRID TO KEEP IT LOOKING FRESH AND VIBRANT.

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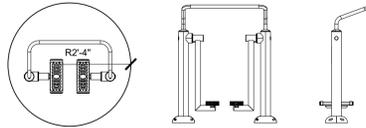
A. PLAYCUBES 1.1C
SCALE: 1/8



A. PLAYCUBES 1.1C
3D RENDER
SCALE: 1/8

A. PLAYCUBES-1.1C (PRODUCT DETAILS).

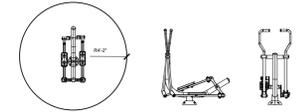
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
12' 0" x 12' 6" x 8' 2"	362 lb	9



F. PASEO SIMPLE
SCALE: 1/1

F. PASEO SIMPLE (PRODUCT DETAILS).

PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
3'-6"x2'x4'-5.5"	N/A	1



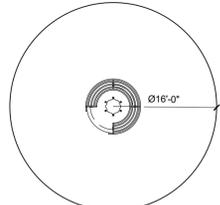
G. ESQUI DE FONDO
SCALE: 1/2

G. ESQUI DE FONDO (PRODUCT DETAILS).

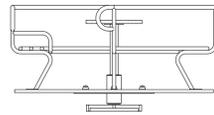
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
4'-3.5" x 2' x 4'-9"	N/A	1

B. ROTATION CAROUSEL (PRODUCT DETAILS).

PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
Ø4' 10" x 2' 3"	42 lb	6

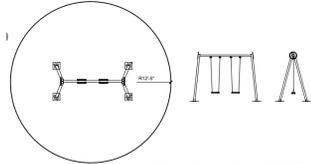


B. ROTATION CAROUSEL
SCALE: 1/8



H. TWO-SEATER SWING (PRODUCT DETAILS).

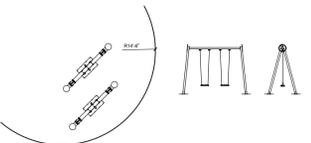
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
11'-10"x5'-7"x8'-10"	N/A	2



H. TWO-SEATER SWING
SCALE: 1/2

I. WAVE RIDER SEESAW (PRODUCT DETAILS).

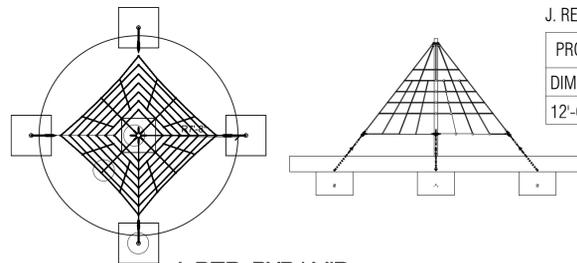
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
10'-7"x11"x2'8"H	168 lb	2



I. WAVE RIDER SEESAW
SCALE: 1/4

J. RED PYRAMID 3MTS (PRODUCT DETAILS).

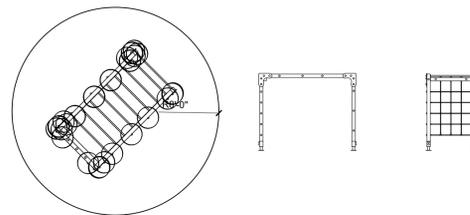
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
12'-63" H	N/A	N/A



J. RED PYRAMID
SCALE: 1/2

K. CLIMBER (PRODUCT DETAILS).

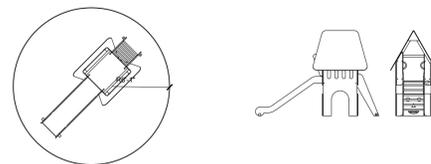
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
8'-11"x4'-5.5"x7'-0"	N/A	21



K. RED PYRAMID
SCALE: 1/2

L. IRIS HOUSE (PRODUCT DETAILS).

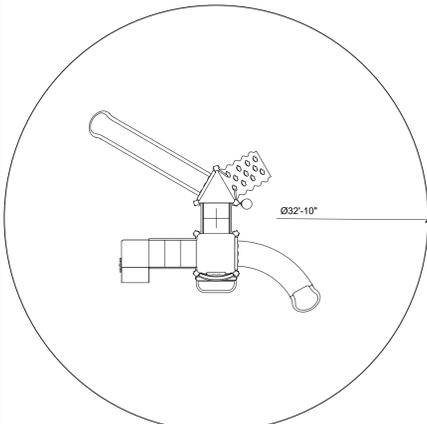
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
9'-4"x3'-6"x6'-9"	14Kg	3



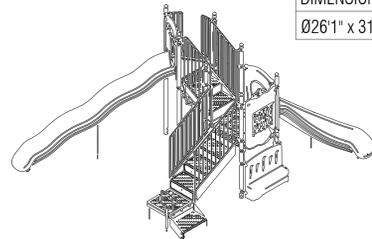
L. IRISH HOUSE
SCALE: 1/2

C. TIMBER GLEN (PRODUCT DETAILS).

PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
Ø26'1" x 31'5"	1329 lb	12



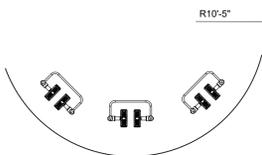
C. TIMBER GLEN
SCALE: 1/5



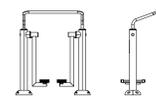
C. TIMBER GLEN 3D RENDER
SCALE: 1/8

D. PASEO SIMPLE (PRODUCT DETAILS).

PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
3'-6"x2'x4'-5.5"	N/A	1

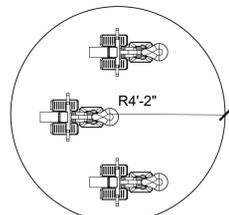


D. PASEO SIMPLE
SCALE: 1/5



E. THE HORSE (PRODUCT DETAILS).

PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
Ø36"x22"x53"	N/A	1



E. THE HORSE
SCALE: 1/1



PLAYGROUND 01 - PLAYGROUND 02:
BEFORE PLACING PEA GRAVEL OR SIMILAR, PLAYGROUNDS MUST HAVE THE FOLLOWING REQUIREMENTS INSTALLED FROM DETAILS. SHEET A-13

SITE NOTES:

1. THE SITE PLAN PROVIDED MUST BE CHECKED AGAINST THE ACTUAL SITE AREA TO ENSURE THAT PLACEMENT OF YOUR STRUCTURE MEETS REQUIRED CLEARANCE.
2. THE DIMENSIONS LABELED ARE FOR LOCATION OF FOOTING HOLES, NOT EXACT PLACEMENT OF EQUIPMENT. ASSEMBLE, PLUMB AND LEVEL EQUIPMENT BEFORE POURING CONCRETE.
3. THERE MUST BE A MINIMUM DISTANCE OF 6' (1830 mm) BETWEEN ANY OBSTACLE, SIDEWALK, ETC., AND YOUR STRUCTURE.

INSTALLATION NOTES:

1. PAVED SURFACE, SUCH AS ASPHALT AND CONCRETE, ARE NOT ACCEPTABLE FOR USE UNDER YOUR STRUCTURE.
2. IT IS THE CONSUMER'S RESPONSIBILITY TO CHECK WITH LOCAL UTILITIES PRIOR TO EXCAVATING FOOTINGS FOR ANY UNDERGROUND UTILITY LINES THAT MAY EXIST WITHIN THE INSTALLATION AREA.
3. IT IS THE CONSUMER'S RESPONSIBILITY TO CHECK LOCAL SOIL CONDITIONS AND DRAINAGE WITHIN THE SITE AREA. INQUIRE WITH LOCAL CONTRACTORS FOR APPROPRIATE RECOMMENDATIONS.
4. IF THE STRUCTURE IS TO BE INSTALLED ACROSS UNEVEN TERRAIN, MAINTAIN THE SUPPORT POST MARK FOR PROTECTIVE SURFACING LEVEL AT THE LOWEST GRADE. ADJUST OTHER FOOTINGS ACCORDINGLY.
5. THE BASE OF FOOTINGS MUST BE BELOW FROST LINES.
6. DO NOT ENCASE THE BOTTOM OF SUPPORT POSTS IN CONCRETE. PLACE ALL POSTS DIRECTLY ON PACKED STONE.
7. ASSEMBLE THE ENTIRE STRUCTURE BEFORE POURING CONCRETE UNLESS SPECIFICALLY INSTRUCTED TO DO SO IN THE INDIVIDUAL COMPONENT INSTALLATION INSTRUCTIONS.
8. READ COMPLETELY THE INSTALLATION INSTRUCTIONS PROVIDED WITH YOUR STRUCTURE PRIOR TO BEGINNING CONSTRUCTION.

IMPORTANT:

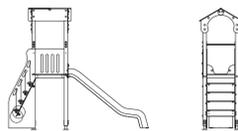
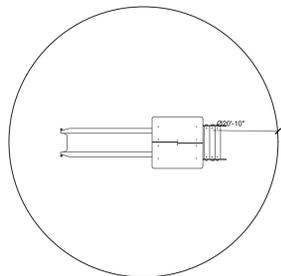
ALL PLAYGROUNDS SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRANDS: PLAYWORLD, ULTRAPLAY AND GRUPFABREGAS.

THEY CAN BE REPLACED BY SIMILAR MODELS.

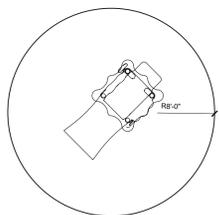
ALL PLAYGROUNDS FLOOR (COVERED WITH PEA GRAVEL) SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRAND: AMERICAN LANDSCAPE SUPPLY. IT CAN BE REPLACED BY OTHER BRANDS.

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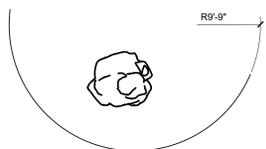
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M. MULTIACTIVITIES
SCALE: 1:2



N. SUPER SPROUT
SCALE: 1:2

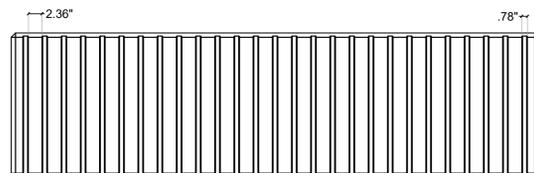
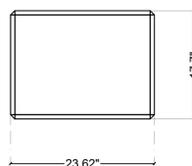
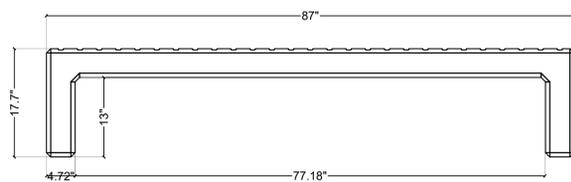


O. GRANITE BOULDER (PRODUCT DETAILS).

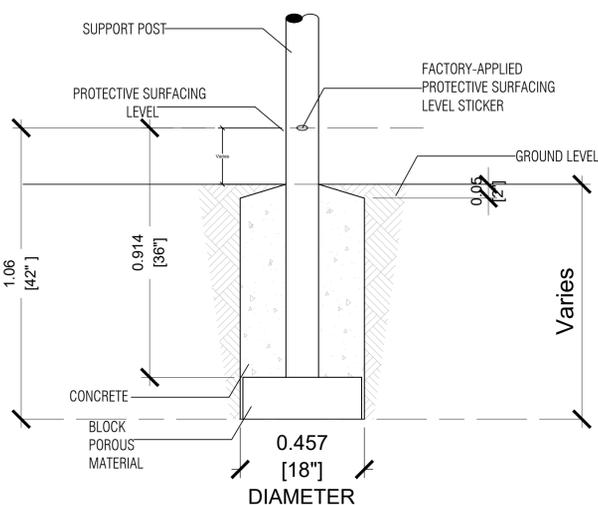
PRODUCT DETAILS		
DIMENSIONS	WEIGHT	CAPACITY
10'2"x10'11"	1350lbs	12

O. GRANITE BOULDER
SCALE: 1:2

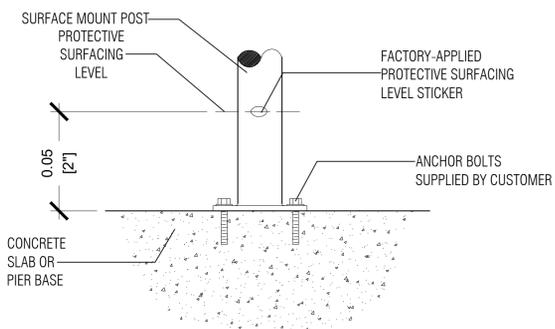
5. SITE FURNISHINGS:
ZEUS MODEL BENCH [C-1008-PLASTIC]
FOR INSTALLATION LOCATIONS SEE SHEET A-7



5. SITE FURNISHING
SCALE: 1:2



DETAIL 1:
SUPPORT POST, SPIRAL SLIDE AND
POST FOOTING DETAIL.



DETAIL 3:
SURFACE MOUNT DETAIL.

**PLAYGROUNDS TYPICAL
FOOTING DETAILS**

PLAYGROUND 01 - PLAYGROUND 02:

BEFORE PLACING PEA GRAVEL OR SIMILAR, PLAYGROUNDS MUST HAVE THE FOLLOWING REQUIREMENTS INSTALLED FROM DETAILS. SHEET A-13

SITE NOTES:

1. THE SITE PLAN PROVIDED MUST BE CHECKED AGAINST THE ACTUAL SITE AREA TO ENSURE THAT PLACEMENT OF YOUR STRUCTURE MEETS REQUIRED CLEARANCE.
2. THE DIMENSIONS LABELED ARE FOR LOCATION OF FOOTING HOLES, NOT EXACT PLACEMENT OF EQUIPMENT. ASSEMBLE, PLUMB AND LEVEL EQUIPMENT BEFORE POURING CONCRETE.
3. THERE MUST BE A MINIMUM DISTANCE OF 6' (1830 mm) BETWEEN ANY OBSTACLE, SIDEWALK, ETC., AND YOUR STRUCTURE.

INSTALLATION NOTES:

1. PAVED SURFACE, SUCH AS ASPHALT AND CONCRETE, ARE NOT ACCEPTABLE FOR USE UNDER YOUR STRUCTURE.
2. IT IS THE CONSUMER'S RESPONSIBILITY TO CHECK WITH LOCAL UTILITIES PRIOR TO EXCAVATING FOOTINGS FOR ANY UNDERGROUND UTILITY LINES THAT MAY EXIST WITHIN THE INSTALLATION AREA.
3. IT IS THE CONSUMER'S RESPONSIBILITY TO CHECK LOCAL SOIL CONDITIONS AND DRAINAGE WITHIN THE SITE AREA. INQUIRE WITH LOCAL CONTRACTORS FOR APPROPRIATE RECOMMENDATIONS.
4. IF THE STRUCTURE IS TO BE INSTALLED ACROSS UNEVEN TERRAIN, MAINTAIN THE SUPPORT POST MARK FOR PROTECTIVE SURFACING LEVEL AT THE LOWEST GRADE. ADJUST OTHER FOOTINGS ACCORDINGLY.
5. THE BASE OF FOOTINGS MUST BE BELOW FROST LINES.
6. DO NOT ENCASE THE BOTTOM OF SUPPORT POSTS IN CONCRETE. PLACE ALL POSTS DIRECTLY ON PACKED STONE.
7. ASSEMBLE THE ENTIRE STRUCTURE BEFORE POURING CONCRETE UNLESS SPECIFICALLY INSTRUCTED TO DO SO IN THE INDIVIDUAL COMPONENT INSTALLATION INSTRUCTIONS.
8. READ COMPLETELY THE INSTALLATION INSTRUCTIONS PROVIDED WITH YOUR STRUCTURE PRIOR TO BEGINNING CONSTRUCTION.

SITE FURNISHINGS: ⑤

INSTALL SITE FURNISHINGS AS DESCRIBE IN PLANS OR SIMILAR. SEE SHEET A-16

IMPORTANT:

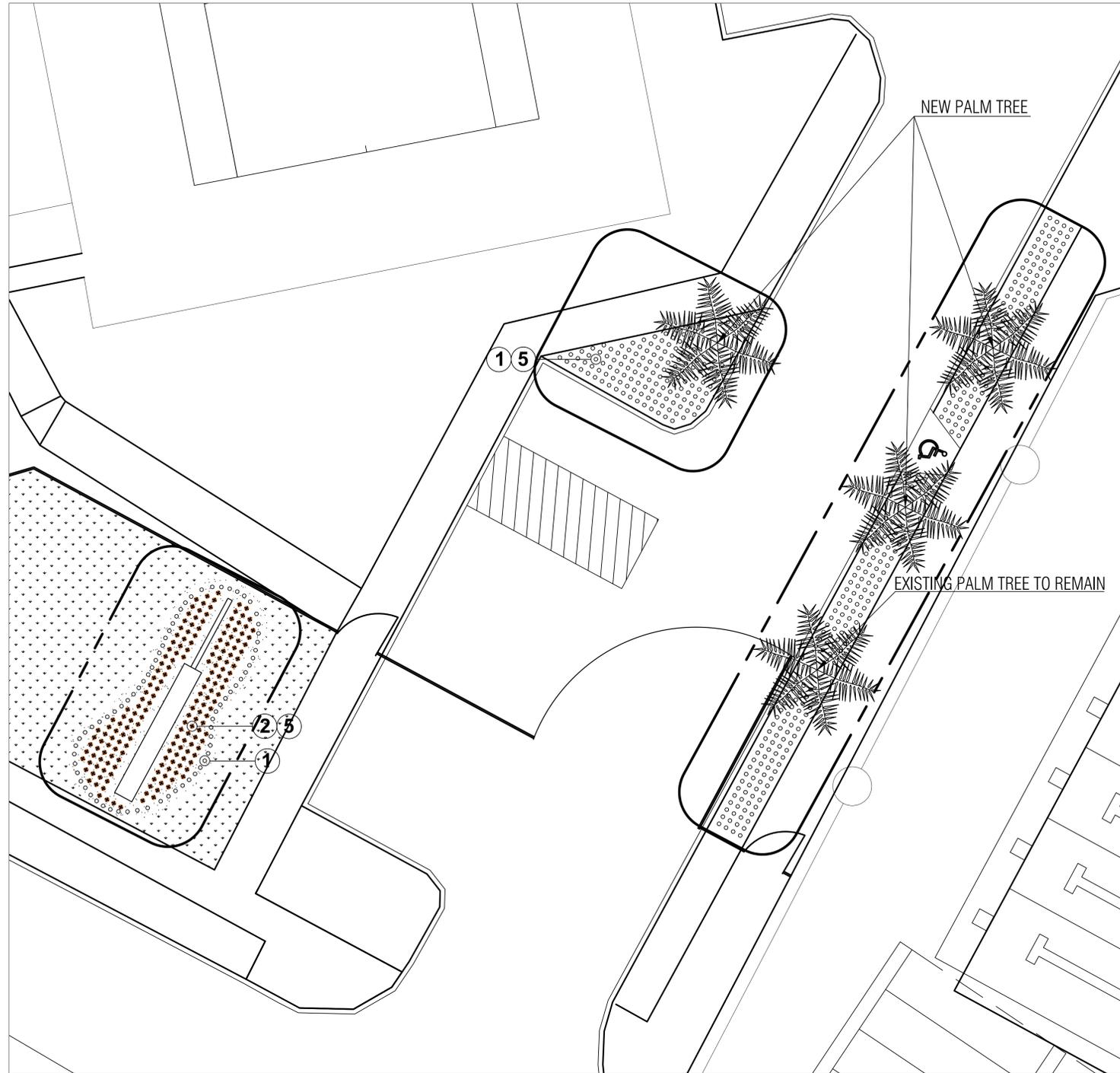
ALL PLAYGROUNDS SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRANDS: PLAYWORLD, ULTRAPLAY AND GRUPFABREGAS.

THEY CAN BE REPLACED BY SIMILAR MODELS.

ALL PLAYGROUNDS FLOOR (COVERED WITH PEA GRAVEL) SHOWN IN THIS PLANS BELONG TO THE FOLLOWING BRAND: AMERICAN LANDSCAPE SUPPLY. IT CAN BE REPLACED BY OTHER BRANDS.

REVISIONS	DATE
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REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX FACILITIES
 ARCHITECTURAL PROPOSED : MAIN ENTRANCE AND LANSCAPE



MAIN ENTRANCE LANDSCAPING
 SCALE 1/8" = 1'-0"

MATERIAL / PLANT NAME	DESCRIPTION	IMAGE
1 DIANELLA TASMANICA	ORNAMENTAL PLANT TO BE PLANTED @ 1'X1' GRID	
2 BROMELIA DE SOL	ORNAMENTAL PLANT TO BE PLANTED @ 1'X1' GRID	
3 HARDSCAPES	EXOTIC GARDEN STONES SALT AND PEPPER @ 3 OR 4"	
4 HARDSCAPES	EXOTIC GARDEN STONES TRI-COLOR STONES @1"	
5 TERRAMIX	PREMIUM MULCH COLOR BROWN	
6 ASPARAGUS MEYERI	ORNAMENTAL PLANT TO BE PLANTED @ 1'X1' GRID	

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ISSUE FOR REVIEW - 80%	MAR 21, 2024 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

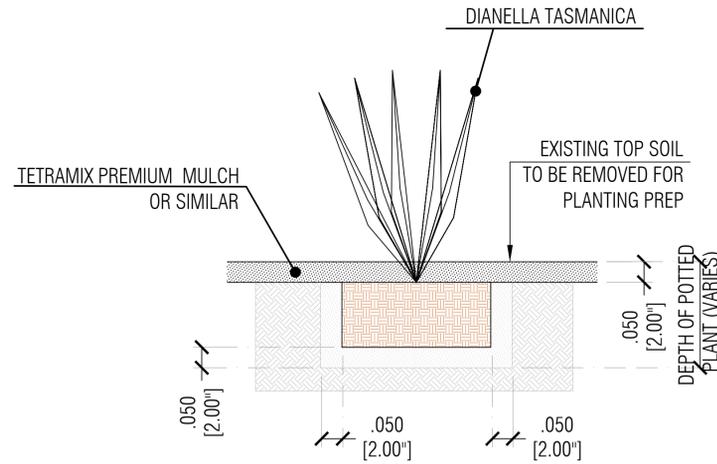
SHEET TITLE
SITE - LANDSCAPE
MAIN ENTRANCE AND
LANDSCAPING MATERIALS

PROJECT NAME
IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
 PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

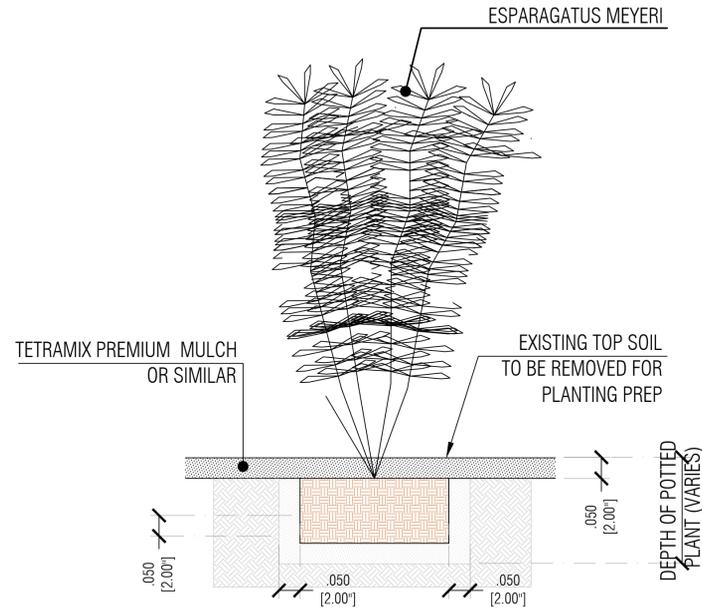
PHASE
 ELECTRICAL
 NEW COND.

DATE	APRIL 2024
DRWG. SHEET	SI-1

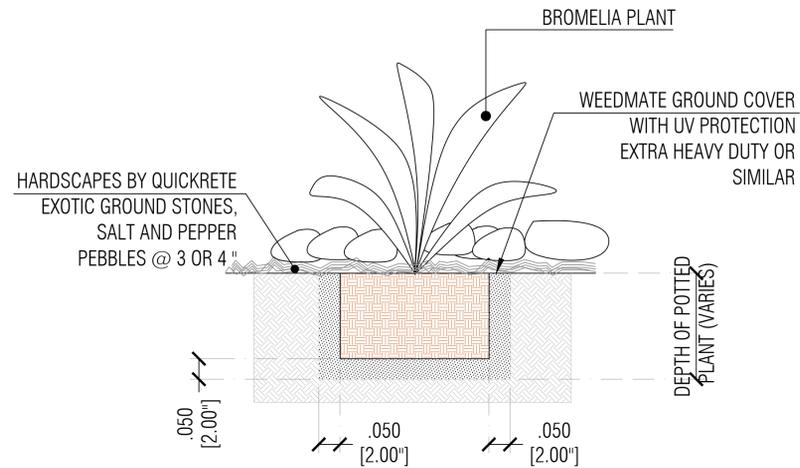
IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX FACILITIES
 ARCHITECTURAL PROPOSED : MAIN ENTRANCE AND LANSCAPE



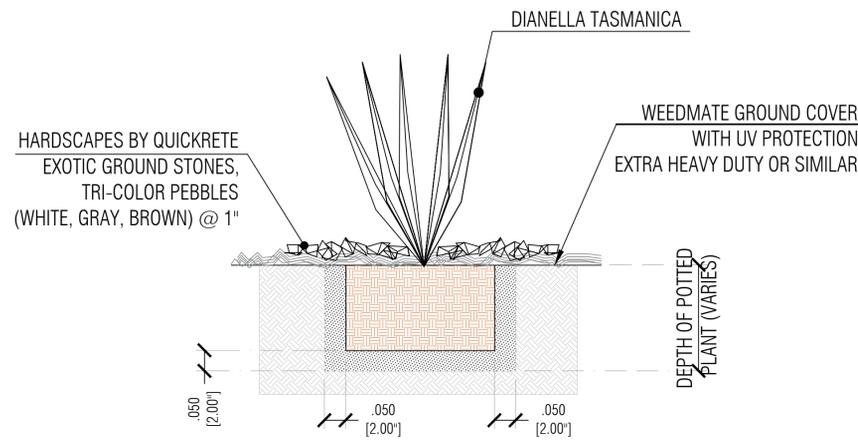
DETAIL 01
 GENERAL ORNAMENTAL PLANTS INSTALLATION
 SCALE : NTS



DETAIL 04
 GENERAL ORNAMENTAL PLANTS INSTALLATION
 SCALE : NTS



DETAIL 02
 GENERAL ORNAMENTAL PLANTS INSTALLATION
 SCALE : NTS



DETAIL 03
 GENERAL ORNAMENTAL PLANTS INSTALLATION
 SCALE : NTS

TYPICAL PLANTING, INDIVIDUAL PLANTING HOLE

1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE OF THE SOIL.
4. BACK FILL THE PLANTING HOLE WITH TOP SOIL.
5. PLACE GRAVEL MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 2 TO 3 INCHES.
6. THE TOP LAYER OF ALL PLANTING AREAS TO BE FINISHED WITH SOIL.

NOTE:
 LANDSCAPING CONTRACTOR MUST USE
 SPECIFIED ELEMENTS OR APPROVED SIMILAR

REVISIONS	DATE
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ISSUE FOR REVIEW - 80%	MAR 21, 2024 4
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REVISION	DATE 6
REVISION	DATE 7

SITE - LANDSCAPE
MAIN ENTRANCE AND
LANDSCAPING MATERIALS

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
 PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

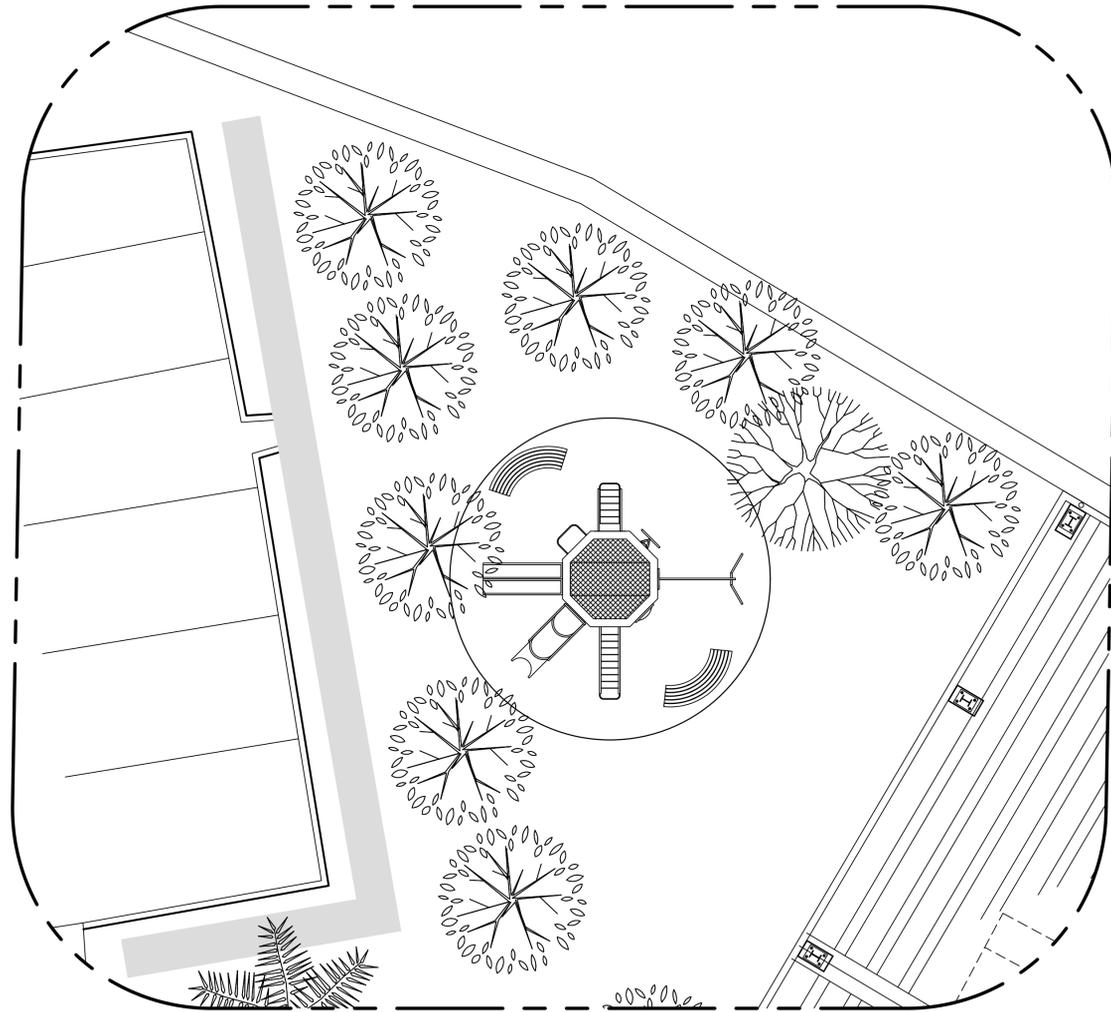
ELECTRICAL
 NEW COND.

DATE	APRIL 2024
DRWG. SHEET	SI-2

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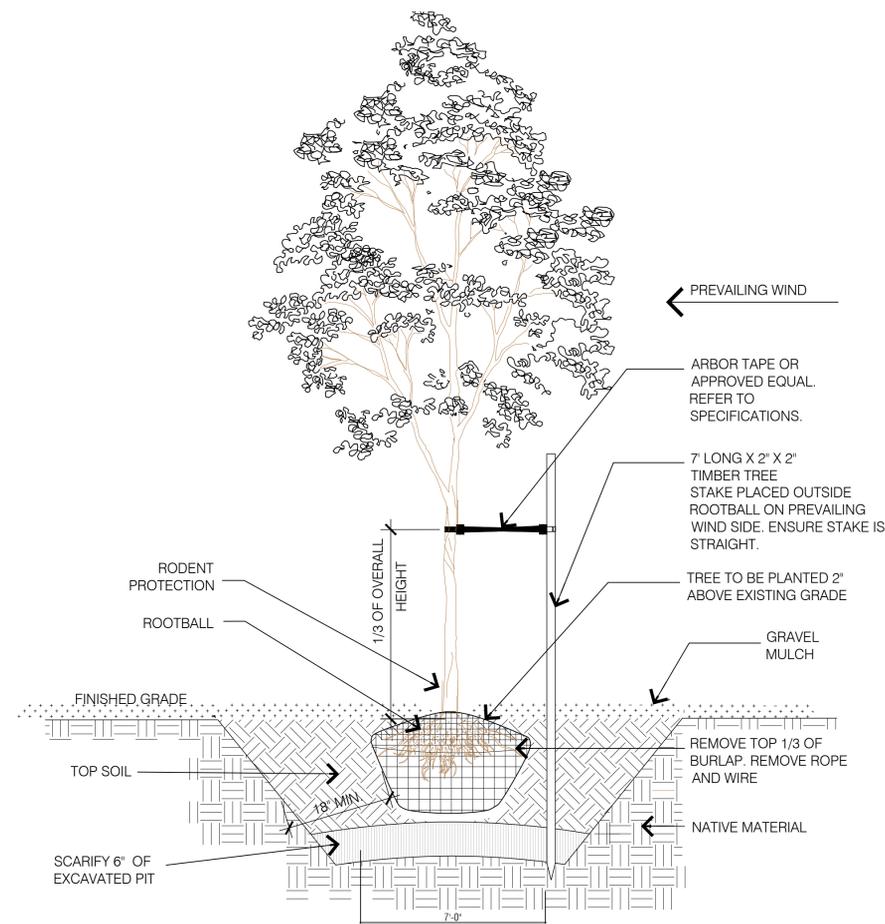
IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX FACILITIES
 ARCHITECTURAL PROPOSED : MAIN ENTRANCE AND LANSCAPE

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CHILDREN'S PLAYGROUND LANDSCAPING
 SCALE 1/8" = 1'-0"

LEGEND



DETAIL 05 : TREE PLANTING DETAIL
 SCALE: NTS

INSTRUCTIONS: TYPICAL PLANTING, INDIVIDUAL PLANTING HOLE

1. DIG PLANTING HOLE AT LEAST 2X THE WIDTH OF THE ROOT BALL OR CONTAINER.
2. SCARIFY SUBGRADE AND SIDES OF PLANTING HOLE WHEN PLANTING IN CLAY SOIL.
3. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE, OR 1-2" ABOVE OF THE SOIL.
4. BACK FILL THE PLANTING HOLE WITH TOP SOIL.
5. PLACE GRAVEL MULCH ON THE SURFACE TO A (SETTLED) DEPTH OF 2 TO 3 INCHES.
6. THE TOP LAYER OF ALL PLANTING AREAS TO BE FINISHED WITH SOIL.

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ISSUE FOR REVIEW - 80%	MAR 11, 2024 4
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REVISION	DATE 6
REVISION	DATE 7

SHEET TITLE
SITE - LANDSCAPE
MAIN ENTRANCE AND
LANDSCAPING MATERIALS

PROJECT NAME
IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
 PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

PHASE
ELECTRICAL
NEW COND.

DATE	APRIL 2024
DRWG. SHEET	SI-3

THIS DRAWING DEPICTS THE DESIGN EFFORT OF APPLIED ENGINEERING GROUP FOR THIS PROJECT AND IS ISSUED FOR REVIEW ONLY. AN INSTRUMENT OF SERVICE SHALL BE REQUIRED FOR THE CONTRACT TO BE EXECUTED. THIS DRAWING IS THE PROPERTY OF APPLIED ENGINEERING GROUP AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF APPLIED ENGINEERING GROUP.

GENERAL NOTES:

1. THE MEASUREMENTS INDICATED APPLY TO THE SCALE OF THE DRAWINGS.
2. IT IS NECESSARY TO VISIT THE CONSTRUCTION SITE, VERIFY AND CONFIRM ALL EXISTING CONDITIONS AND SITUATIONS THAT MAY AFFECT THE CONSTRUCTION PROCESS. THESE COSTS SHOULD BE INCLUDED AND CONSIDERED IN YOUR PRICE PROPOSAL. ANY DISCREPANCIES SHOULD BE IMMEDIATELY COMMUNICATED TO THE ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH THE WORK TO RECEIVE INSTRUCTIONS ACCORDINGLY.
3. COMPLIANCE WITH THE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF THE PUBLIC AUTHORITIES WITH JURISDICTION OVER THE PROJECT IS REQUIRED. ADDITIONALLY, ALL PERMITS AND INSPECTIONS REQUIRED BY THE PUBLIC AUTHORITIES WITH JURISDICTION OVER THE PROJECT MUST BE OBTAINED AND PAID FOR.

ARCHITECTURAL NOTES:

1. ALL BLOCK OR CONCRETE WALLS THAT ARE EXPOSED TO THE EXTERIOR OR MAY COME INTO CONTACT WITH MOISTURE MUST BE COATED WITH A HYDROPHOBIC MORTAR (WATERPROOF), UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.
2. THE GENERAL CONTRACTOR MUST PROVIDE THE NECESSARY REINFORCEMENT IN WALLS, FLOORS, AND/OR CEILINGS FOR THE ANCHORING OF DOORS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MEASURE AND CONFIRM ON SITE ALL WINDOWS AND DOORS OPENING, PRIOR TO SHOP ORDER ANY WINDOW, DOOR, GLASS, LOUVER, ETC.

DOWNSPOUTS AND GUTTERS:

1. USE TYPICAL WHITE CHANNELS IN ALUMINUM OR VINYL WHERE NO EXISTING DRAINS ARE AVAILABLE, OR IF EXISTING ARE IN BAD CONDITION. DO NOT USE LESS THAN 4IN SIZE.
2. SECURE DOWNSPOUTS USING STEEL BRACKETS.
3. ALL VERTICAL DOWNSPOUTS SHALL BE INSTALLED AT 90N DEG ALIGN WITH WALL EDGE.

PAINTING NOTES:

1. REMOVE EXISTING PAINT AND PREPARE THE AREA FOR NEW PAINT
 - 1.1. CLEAN THE SURFACE: REMOVE DIRT, GREASE, SOAP, AND OIL BUILDUP WITH AN APPROPRIATE CLEANER AND RINSE THOROUGHLY WITH WATER AT 2000 TO 4000 PSI. CONTRACTOR MUST LET DRY PRIOR TO START PAINTING.
 - 1.2. REMOVE LOOSE PAINT: SCRAPE OFF ANY LOOSE PAINT OR GLUE RESIDUES. STRIP OFF AS MUCH OF THE OLD PAINT AS POSSIBLE USING A WIRE BRUSH BIT.
 - 1.3. REPAIR OR FILL THE CRACKS: REMOVE ANY HOLDERS, NAILS, LAMPS, RECEPTACLE COVERS, EXPOSED WIRES, STANDS, ETC. FILL ANY HOLES AND CRACKS WITH SPACKLING OR PATCHING COMPOUND. SURFACE SHALL BE LEFT SMOOTH.
 - 1.4. PRIMER APPLICATION: WITH A HIGH-QUALITY MASONRY AND STUCCO PRODUCT, PRIME BASE COAT. THE CONTRACTOR MUST USE A PIGMENTED SEALER/STAIN BLOCKER UNDERCOAT.
2. USE WHITE SEALANT PAINT ON ALL WALLS, FLOORS, AND CEILINGS WITH PAINTED FINISH. NOTE: SURFACES WITH BLACK PAINT MUST USE CLEAR SEALANT.
3. SUBMIT A SAMPLE OF ALL SPECIFIED COLORS FROM THE FINISHING CHART TO THE ARCHITECT/ ENGINEER. THE ARCHITECT/ENGINEER MAY REQUEST UP TO 10 ADDITIONAL SAMPLES OF EACH SPECIFIED COLOR. THE SAMPLES SHOULD BE SITE-PAINTED AND HAVE A SIZE OF 3" X 3" FOR EACH COLOR.
4. APPLY THE NUMBER OF COATS SUGGESTED BY THE SUPPLIER AND AS REQUIRED IN THE SPECIFICATIONS. MINIMUM COATING AT LEAST IS TWO COATS OF THE NEW COLOR.
5. ALL PAINTED WALLS MUST BE PERFECTLY LEVEL WITHOUT IMPERFECTIONS, UNDULATIONS, DEPRESSIONS, OR PROTRUSIONS. REQUEST THAT ALL SURFACES BE REPAIRED BEFORE COMMENCING PAINTING WORK.

FINISHING NOTES:

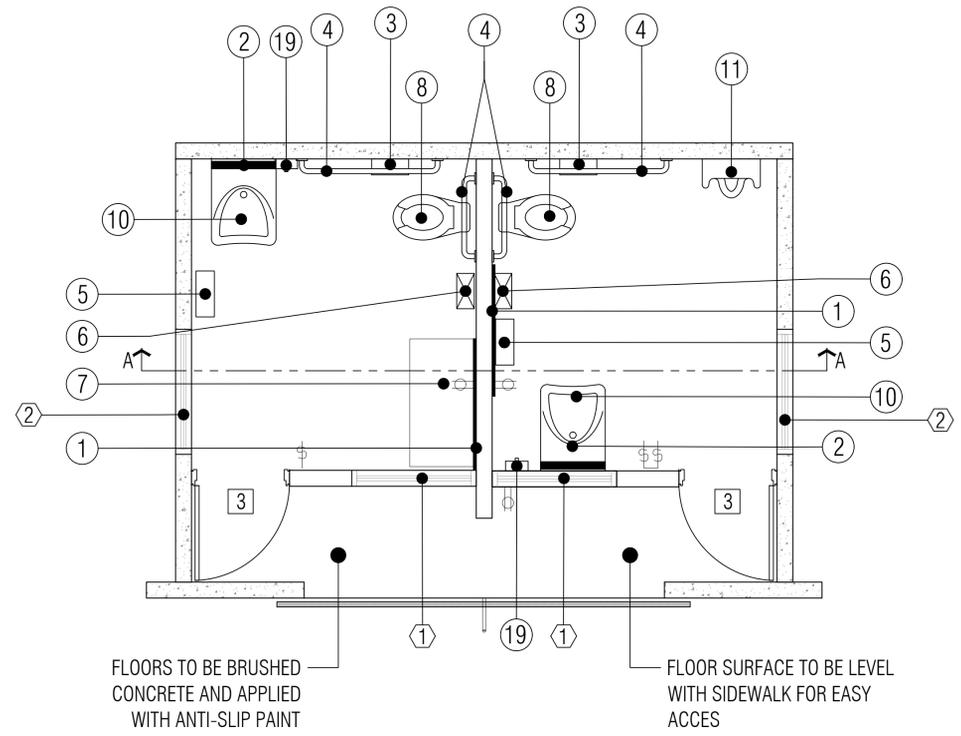
1. ENSURE THAT ANY SURFACE INTENDED FOR FINISHING IS CLEAN, SMOOTH, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO BE RETAINED AS REQUIRED FOR THE APPLICATION OF NEW FINISHES.
3. VERIFY THE STARTING POINTS FOR FLOOR FINISHES WITH THE ARCHITECT BEFORE INSTALLATION.
4. ALL INTERNAL WALL FINISHES SHOULD EXTEND TO A HEIGHT OF 3 INCHES ABOVE THE CEILING TERMINATION, REGARDLESS OF THE TYPE OF FINISH TO BE APPLIED, OR TO THE FLOOR SLAB IF THERE IS NO CEILING.
5. EVERY BLOCK OR CONCRETE WALL MUST HAVE A SMOOTH PLASTER UNLESS OTHERWISE SPECIFIED. ONLY CONCRETE BLOCK WALLS DESIGNATED FOR GYPSUM FINISH WILL BE EXEMPT FROM PLASTER. REFER TO WALL DETAILS.
6. ALL EXTERIOR TOPPING MUST BE OF WATERPROOF TYPE.
7. CONTRACTOR MUST PERFORM A WATERPROOFING TREATMENT TO ROOF TOP OF ALL CONCRETE BUILDING STRUCTURES TO BE IMPACTED. USE UV RESISTANT RUBBERIZED ROOF COATING, SIMILAR TO KOOL SEAL TUNDRA WHITE FROM SHERWIN WILLIAMS. CONTRACTOR MUST FOLLOW MANUFACTURES INSTRUCTIONS IN THE APPLICATION OF TREATMENT IN A LEVELED ROOF. CONTRACTOR IS RESPONSIBLE TO CORRECT ANY WATER PUDDLE PRIOR TO APPLY PRODUCT.
8. CONTRACTOR MUST PROVIDE MATERIAL AND COLOR PALETTE SAMPLES FOR APPROVAL FOR ANY PENDING COLORS PRIOR TO SELECTION

BATHROOM FINISHES:

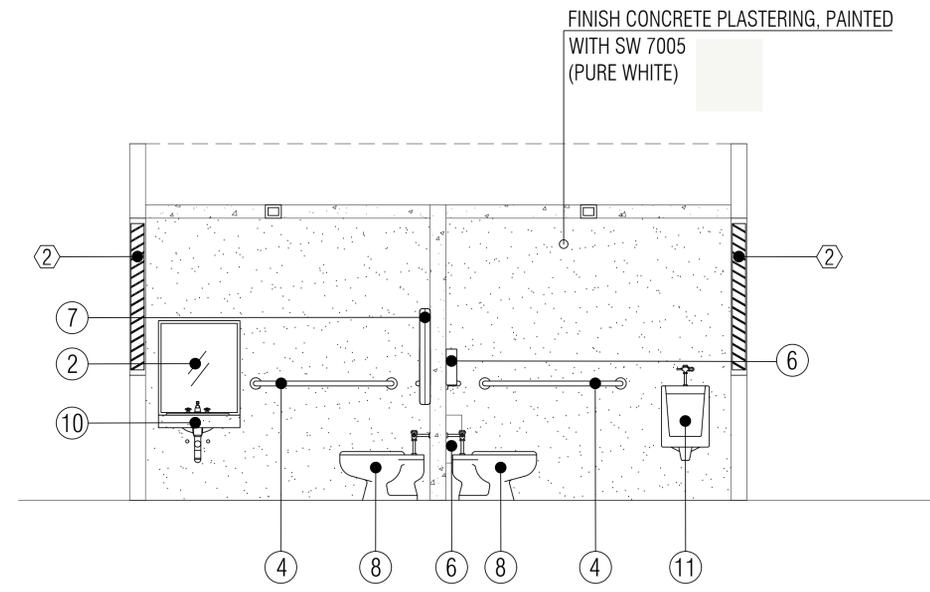
1. ALL INTERIOR WALLS SHOULD BE COVERED FROM FINISHED FLOOR LEVEL UP TO THE CEILING WITH 1X2 FT. PORCELAIN TILES.
2. FOR THE FINAL FLOOR FINISH, NON-SLIP 2X2 FEET PORCELAIN TILES SHOULD BE USED.
3. ALL WINDOWS SHOULD BE MADE OF LAMINATED 1/4" GLASS SET WITHIN AN ANODIZED ALUMINUM FRAME.
4. ALL BATHROOM PLUMBING FIXTURES SHALL BE IN SOLID BRASS CONSTRUCTION WITH CHROME PLATED FINISH. FLEXIBLE SUPPLY LINES TO BE STAINLESS STEEL BRAIDED.

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NEW RESTROOM FLOOR PLAN
SCALE : 3/8" = 1'-0"



NEW RESTROOM - SECTION A-A
SCALE : 3/8" = 1'-0"

NOTES:

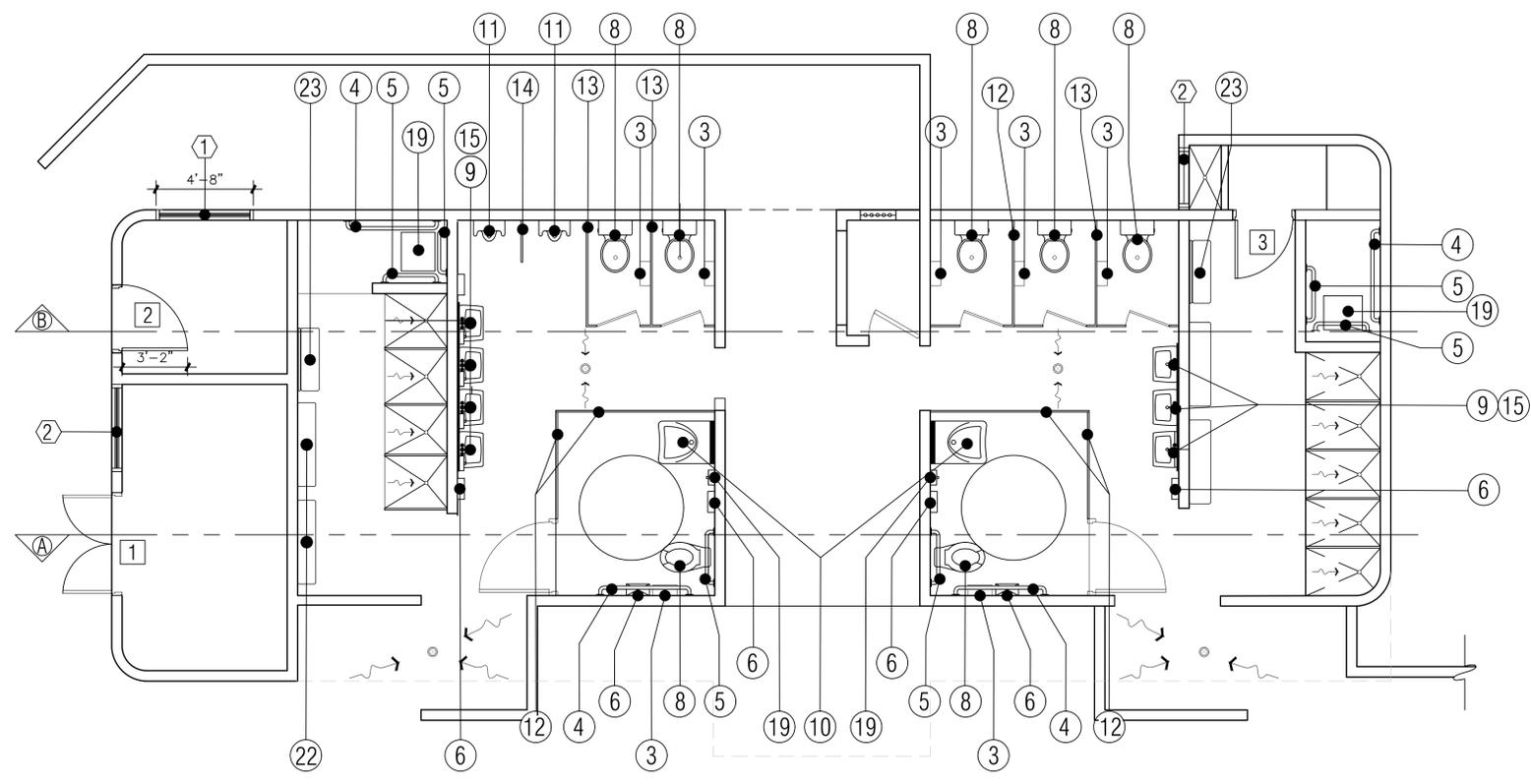
1. SUBMIT SHOP DRAWINGS OF ALL DOORS AND WINDOWS PRIOR TO FABRICATIONS.
2. ROUND 1/8" OF ALL HOLLOW METAL FRAMES AND TRIM EDGES.
3. ALL HOLLOW METAL DOORS SHALL HAVE A 1/4" UNDERCUT OVER THEIR FINISH FLOOR.
4. CONTRACTOR SHALL VERIFY FINAL OPENING AT FIELD.
5. WINDOWS AND DOORS SHALL WITHSTAND 160 MPH WINDS.

WINDOW AND DOOR SCHEDULE					
	NAME	LOCATION	DIMENSION	QTY.	COMMENTS
①	FIXED ALUMINUM LOUVERS	FRONT WALL	23" X 27"	2	EXTERIOR
②	FIXED ALUMINUM LOUVERS	LATERAL WALLS	47" X 59"	2	EXTERIOR
③	ALUMINUM DOORS	ENTRANCE DOORS	3'-1" X 8'	2	INTERIOR/EXTERIOR

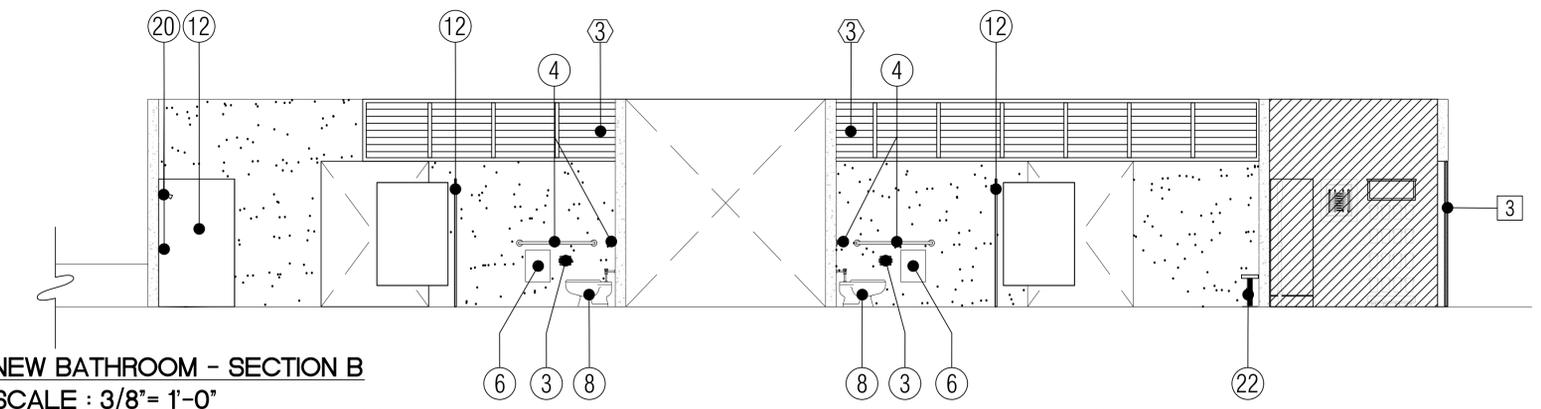
BATHROOM SCHEDULE			
	NAME	QTY.	REMARKS
①	FIXED MIRROR	2	STAINLESS STEEL TILT MIRROR BOBRICK MODEL B-293 OR SIMILAR.
②	FIXED TILT MIRROR	2	STAINLESS STEEL FIXED TILT MIRROR BOBRICK MODEL B-165 OR SIMILAR.
③	MULTI ROLL TOILET TISSUE	2	SURFACE MOUNTED HOODED AUTO-RESERVED MULTI ROLL TOILET TISSUE DISPENSER BOBRICK MODEL B-4288 OR SIMILAR.
④	STEEL GRAB BARS	4	STAINLESS STEEL GRAB BARS TYPE-G BOBRICK MODEL B-68137 48"X48" OR SIMILAR.
⑤	PAPER TOWEL DISPENSER	2	SURFACE MOUNTED PAPER TOWEL DISPENSER MODEL-U191 WITH SHELF BY WASHROOM ACCESSORIES OR SIMILAR.
⑥	SURFACE MOUNTED WASTE	2	SURFACE MOUNTED WASTE RECEPTACLES BOBRICK MODEL B-279 OR SIMILAR.
⑦	BABY CHANGING STATION	2	KB311-SSRE VERTICAL STAINLESS STEEL REESSED-MOUNTED
⑧	WALL FLUSH TOILET	2	96054-0 WELL COMME ULTRA FLOOR MOUNT TOILET WITH WALL FLUSH OR SIMILAR.
⑨	WALL MOUNTED LAVATORY	2	KOHLER P-2-K-2023 WALL MOUNT LAVATORY IN WHITE OR SIMILAR.
⑩	WALL MOUNTED LAVATORY (ADA)	2	MORNINGSIDE (KOHLER) - 20' X 27" WALL MOUNTED/CONCEALED ARM CARRIER WHEELCHAIR BATHROOM SINK OR SIMILAR
⑪	MEN'S URINAL	1	P-4 KOHLER P-4-K-4972 STANWELL URINAL IN WHITE OR SIMILAR. RIM IS MOUNTED NOT HIGHER THAT 17" FROM FINISH FLOOR.
⑫	WALL PARTITIONS ADA	2	414 ALCOVE- FLOOR MOUNTED, OVERHEAD BRACED SOLID PLASTIC/POLYMER PARTITIONS. OR SIMILAR
⑬	BATHROOM STALL	1	413 FREE STANDING - FLOOR MOUNTED/ OVERHEAD BRACED - SOLID PLASTIC/ POLYMER PARTITION OR SIMILAR.
⑭	URINAL DIVIDER SCREEN	1	SOLID POLYMER URINAL SCREEN OR SIMILAR - WALL HUNG
⑮	BRAILLE SIGN	2	1/4" THICK, RIGID, RUST-PROOF SINTRA PLSATIC WITH RAISED PICTOGRAMS AND GRADE II BRAILLE. (SEE SI-15)
⑯	SINK FAUCET	2	KOHLER-K-400T20-4ANA-CP- 0.5 GPM CENTERSET BATHROOM SINK FAUCET WITH AERATED FLOW AND LEVER HANDLES OR SIMILAR.
⑰	SINK FAUCET ADA	2	KOHLER- K-400T70-4AKA-CP- 1.0 GPM CENTERSET BATHROOM SINK FAUCET WITH AERATED FLOW, GOOSENECK SPOUT AND LEVER HANDLES OR SIMILAR.
⑱	WASTE DRAIN PIPE	4	DAX SINK P TRAP WASTE DRAIN PIPE, WALL MOUNTED, STAINLESS STEEL, BRUSHED FINISH (DAX-010-01-BN) OR SIMILAR.
⑲	SOUP DISPENSER	3	BOBRICK (818615) - HEAVY DUTY SURFACE MOUNTED SOUP DISPENSER OR SIMILAR.

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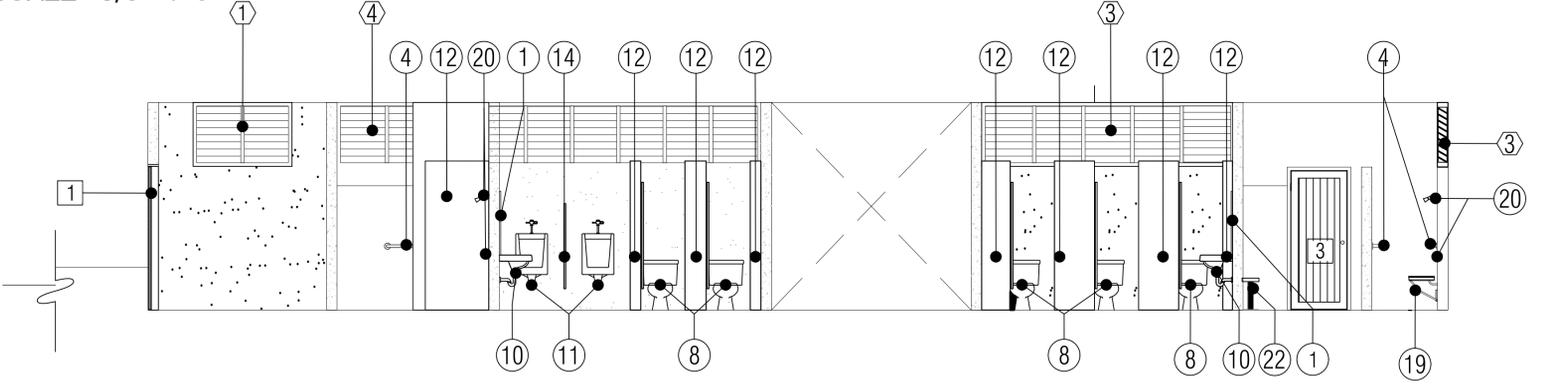
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NEW BATHROOM FLOOR PLAN
SCALE : 3/8" = 1'-0"



NEW BATHROOM - SECTION B
SCALE : 3/8" = 1'-0"



NEW BATHROOM - SECTION A
SCALE : 3/8" = 1'-0"

- NOTES:**
1. SUBMIT SHOP DRAWINGS OF ALL DOORS AND WINDOWS PRIOR TO FABRICATIONS.
 2. ROUND 1/8" OF ALL HOLLOW METAL FRAMES AND TRIM EDGES.
 3. ALL HOLLOW METAL DOORS SHALL HAVE A 1/4" UNDERCUT OVER THEIR FINISH FLOOR.
 4. CONTRACTOR SHALL VERIFY FINAL OPENING AT FIELD.
 5. WINDOWS AND DOORS SHALL WITHSTAND 160 MPH WINDS.

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX
POOL BATHROOMS DESIGN PLAN, ELEVATION AND SCHEDULE

WINDOW AND DOOR SCHEDULE					
	NAME	LOCATION	DIMENSION	QTY.	COMMENTS
①	FIXED ALUMINUM LOUVERS	ELECTRICAL ROOM	56" X 36"	1	EXTERIOR
②	FIXED ALUMINUM LOUVERS	ELECTRICAL ROOM	50" X 24"	1	EXTERIOR
③	FIXED ALUMINUM LOUVERS	MAIN, REAR & LATERAL WALLS	37" X 37"	24	EXTERIOR
④	FIXED ALUMINUM LOUVERS	MAIN ENTRANCE	37" X 34"	7	EXTERIOR
①	ALUMINUM SECURITY DOOR	ELECTRICAL ROOM	28" X 31"	2	EXTERIOR
②	ALUMINUM SECURITY DOOR	ELECTRICAL ROOM	38" X 31"	1	EXTERIOR
③	ALUMINUM SECURITY DOOR	JANITORS ROOM	33" X 31"	1	INTERIOR

BATHROOM SCHEDULE			
	NAME	QTY.	REMARKS
①	FIXED MIRROR	2	STAINLESS STEEL TILT MIRROR BOBRICK MODEL B-293 OR SIMILAR.
②	FIXED TILT MIRROR	2	STAINLESS STEEL FIXED TILT MIRROR BOBRICK MODEL B-165 OR SIMILAR.
③	MULTI ROLL TOILET TISSUE	7	SURFACE MOUNTED HOODED AUTO-RESERVED MULTI ROLL TOILET TISSUE DISPENSER BOBRICK MODEL B-4288 OR SIMILAR.
④	STEEL GRAB BARS	4	STAINLESS STEEL GRAB BARS TYPE-G BOBRICK MODEL B-68137X48 OR SIMILAR.
⑤	STEEL GRAB BARS	6	STAINLESS STEEL GRAB BARS TYPE-G BOBRICK MODEL B-6806X30 OR SIMILAR.
⑥	PAPER TOWEL DISPENSER	5	SURFACE MOUNTED PAPER TOWEL DISPENSER MODEL-U191 WITH SHELF BY WASHROOM ACCESSORIES OR SIMILAR.
⑦	SURFACE MOUNTED WASTE	9	SURFACE MOUNTED WASTE RECEPTACLES BOBRICK MODEL B-279 OR SIMILAR.
⑧	WALL FLUSH TOILET	7	96054-0 WELL COMME ULTRA FLOOR MOUNT TOILET WITH WALL FLUSH OR SIMILAR.
⑨	WALL MOUNTED LAVATORY	7	KOHLER P-2-K-2023 WALL MOUNT LAVATORY IN WHITE OR SIMILAR.
⑩	WALL MOUNTED LAVATORY (ADA)	2	MORNINGSIDE (KOHLER) - 20" X 27" WALL MOUNTED/CONCEALED ARM CARRIER WHEELCHAIR BATHROOM SINK OR SIMILAR
⑪	MEN'S URINAL	2	P-4 KOHLER P-4-K-4972 STANWELL URINAL IN WHITE OR SIMILAR. RIM IS MOUNTED NOT HIGHER THAT 17" FROM FINISH FLOOR.
⑫	WALL PARTITIONS ADA	4	414 ALCOVE- FLOOR MOUNTED, OVERHEAD BRACED SOLID PLASTIC/POLYMER PARTITIONS. OR SIMILAR
⑬	BATHROOM STALL	5	413 FREE STANDING - FLOOR MOUNTED/ OVERHEAD BRACED - SOLID PLASTIC/ POLYMER PARTITION OR SIMILAR.
⑭	URINAL DIVIDER SCREEN	1	SOLID POLYMER URINAL SCREEN OR SIMILAR - WALL HUNG
⑮	SINK FAUCET	7	KOHLER-K-400T20-4ANA-CP- 0.5 GPM CENTERSET BATHROOM SINK FAUCET WITH AERATED FLOW AND LEVER HANDLES OR SIMILAR.
⑯	SINK FAUCET ADA	2	KOHLER- K-400T70-4AKA-CP- 1.0 GPM CENTERSET BATHROOM SINK FAUCET WITH AERATED FLOW, GOOSENECK SPOUT AND LEVER HANDLES OR SIMILAR.
⑰	WASTE DRAIN PIPE	7	DAX SINK P TRAP WASTE DRAIN PIPE, WALL MOUNTED, STAINLESS STEEL, BRUSHED FINISH (DAX-010-01-BN) OR SIMILAR.
⑱	SOAP DISPENSER	7	BOBRICK (818615) - HEAVY DUTY SURFACE MOUNTED SOUP DISPENSER OR SIMILAR.
⑲	FOLDING TRANSFER BENCH (ADA)	2	32"X16" STAINLESS STEEL AND WOOD TYPE304 18 GAUGE ALUMINUM. TEAKWORKS 4U MODEL TBF-320160W
⑳	SHOWER AND FAUCET	8	TBD
㉑	SHOWER AND FAUCET (ADA)	2	TBD
㉒	WOOD LOCKER BENCHES	4	WOOD AND ALUMINUM BENCHES, SALSURY INDUSTRIES MODEL #77785 DRK 60"W X 18"W X 9.5"D
㉓	42" LOCKER BENCH (ADA)	2	WOOD 42" WIDE LOCKER BENCH WITH BACK SUPPORT, SALSURY INDUSTRIES MODEL #77781-ADAB

APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS

10 St. Montecarlo Avenue #666 Rio Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: 787-771-0071 / 787-771-5087 / Fax: 787-771-5071 / www.aegbarbora.com

CONSULTANT

REVISIONS

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ISSUE FOR REVIEW - 90%	DATE
REVISION	DATE
REVISION	DATE
REVISION	DATE

SHEET TITLE

PROPOSED PLAN
POOL BATHROOM DESIGN PLAN
ELEVATIONS AND SCHEDULE

PROJECT NAME

IMPROVEMENTS PROJECT
COROZAL SPORT COMPLEX
FACILITY

PR-CRP-000888
MUNICIPIO DE COROZAL - PUERTO RICO 00783

PHASE

ARCHITECTURAL
PROPOSED PLAN

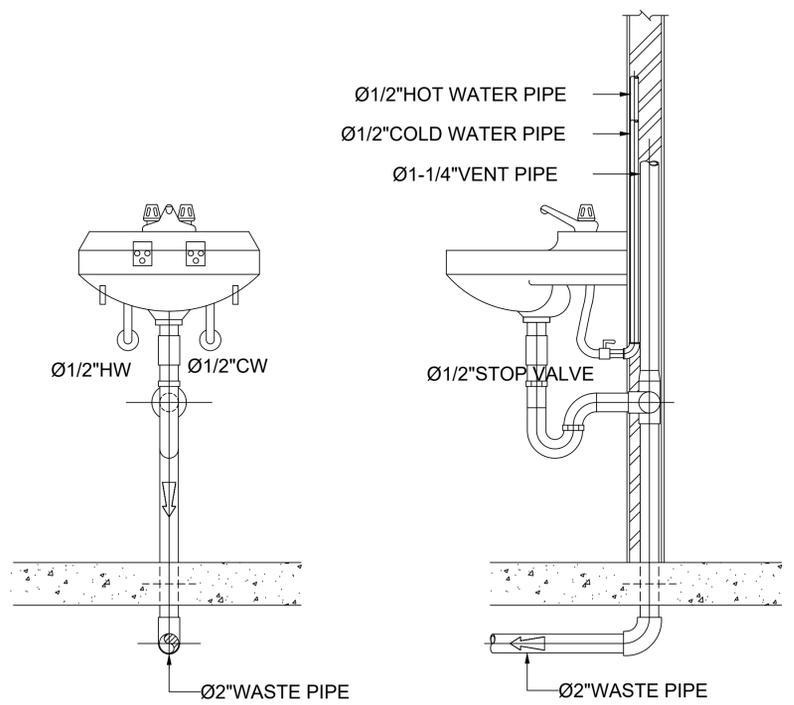
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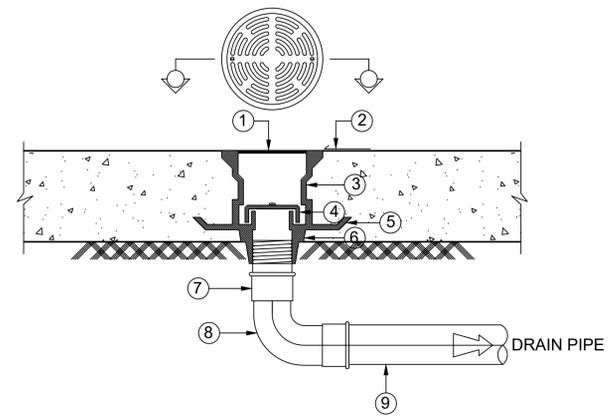
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SI-6

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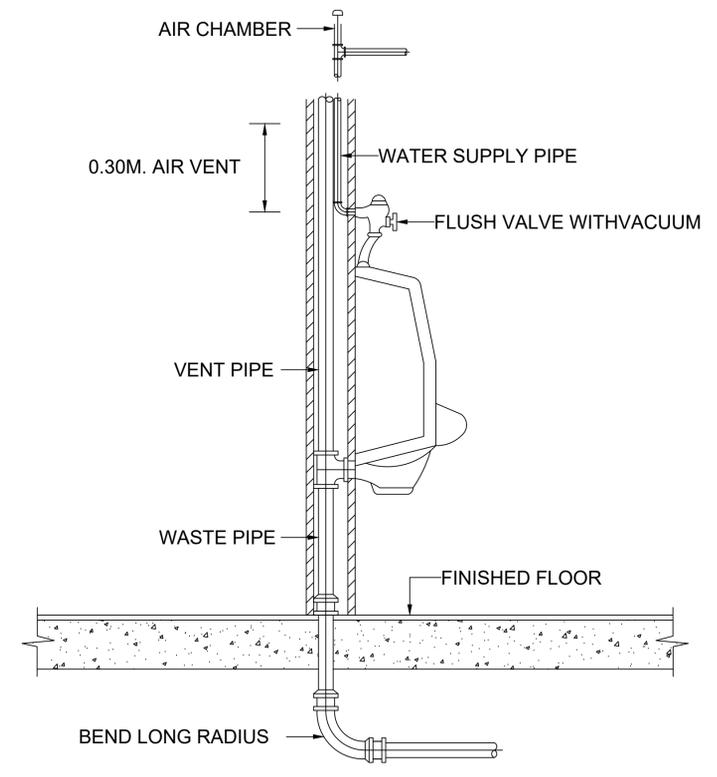


LAVATORY

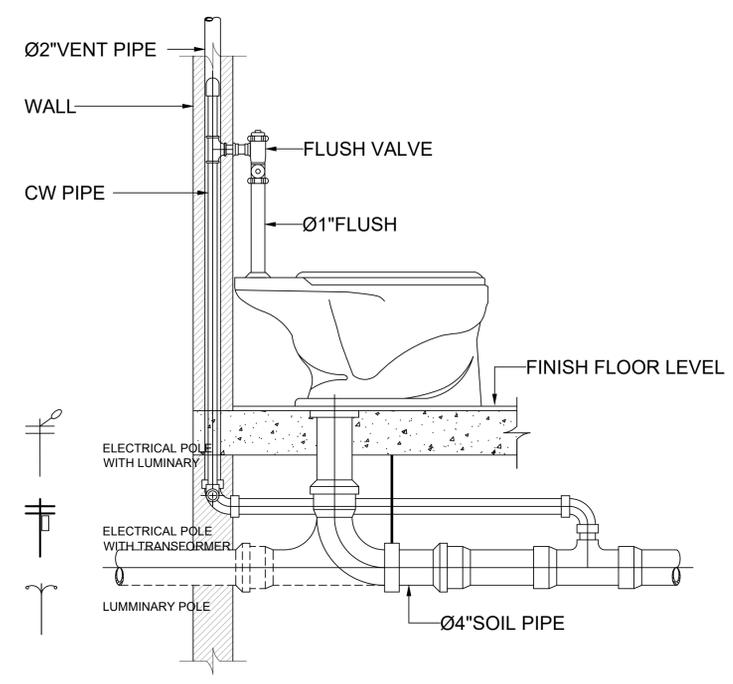


- ① GRATE
- ② DRAINAGE SLOPE
- ③ ADJUSTABLE HOUSING
- ④ BELL TRAP
- ⑤ CLAMPING COLLAR
- ⑥ CAST IRON BODY W / FLASHING FLANGE
- ⑦ ADAPTOR
- ⑧ 90° BEND
- ⑨ WASTE AND DRAIN PIPE

FLOOR DRAIN (USE FOR SLAB ON GROUND)



WALL HUNG URINAL (FLUSH VALVE TYPE)



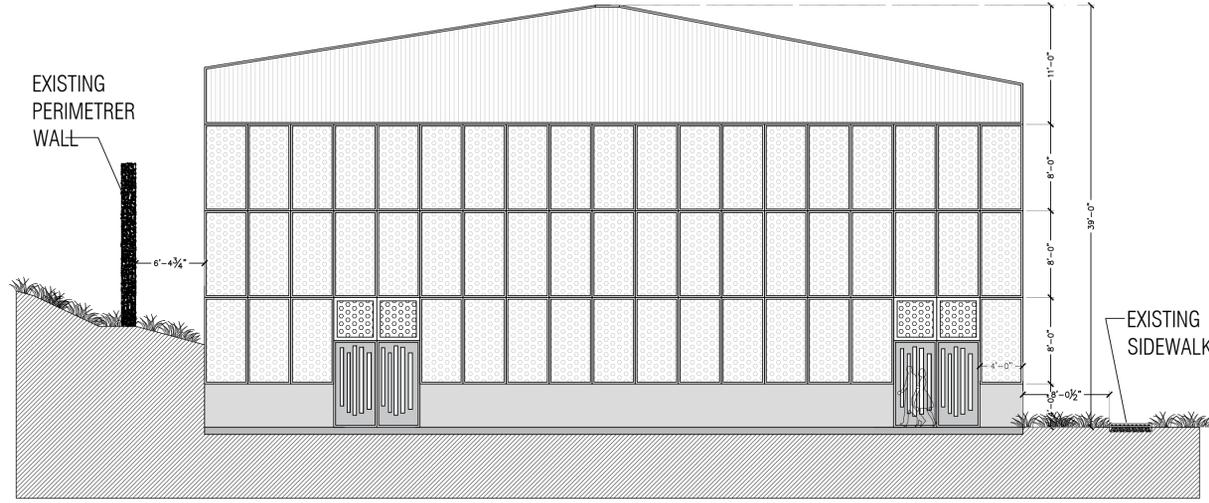
WATER CLOSET WITH FLUSH VALVE (WC)

GENERAL NOTES

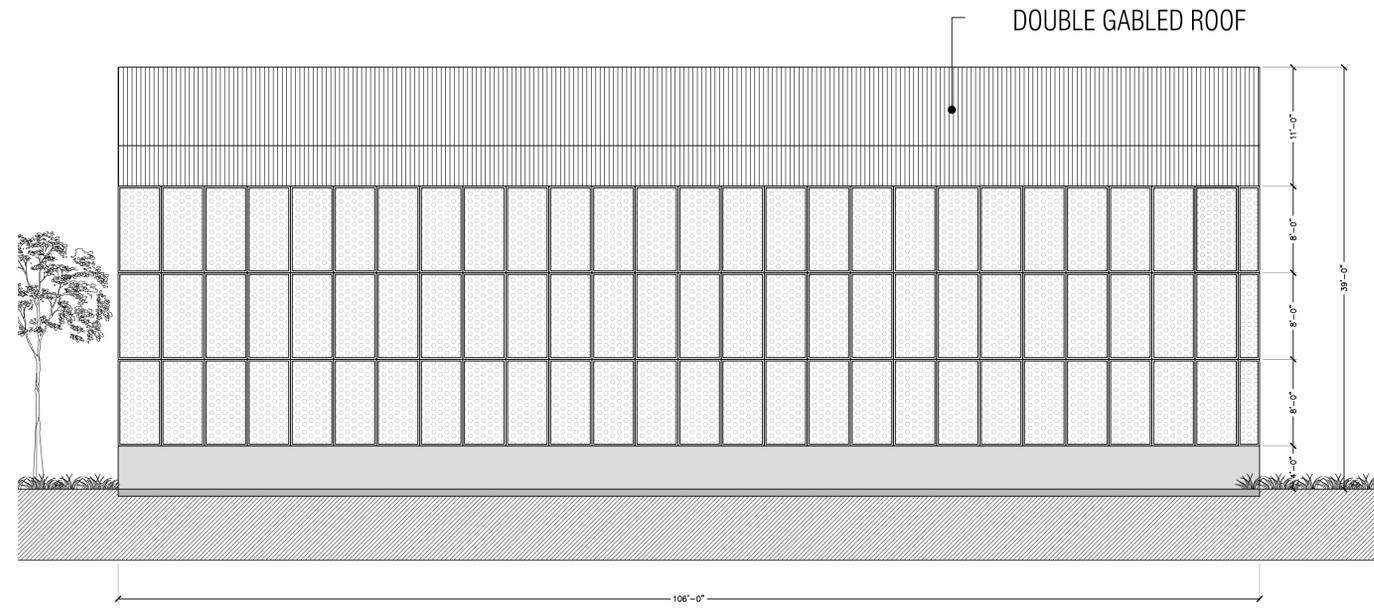
1. ALL PLUMBING WORK, EQUIPMENT AND SYSTEMS INSTALLED, AS PART OF THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2017 BUILDING CODE, THE PUERTO RICO WATER AUTHORITY GUIDELINES AND ALL APPLICABLE CODES AND ORDINANCES.
2. PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES IN FIELD BEFORE STARTING CONSTRUCTION WORKS.
3. CONTRACTOR SHALL COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAYS OR INTERFERENCES. IT IS RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY SPACE CONDITIONS AND DIMENSIONS AT JOB SITE PRIOR TO CONSTRUCTION AND INSTALLATION OF MATERIALS AND EQUIPMENT.
4. CONTRACTOR SHALL NOTIFY TO THE GENERAL CONTRACTOR IF ANY VARIATION OR CONSTRUCTIONS SHOULD BE ANTICIPATED TO AVOID CONFLICTS WITH OTHER TRADES.
5. PLUMBING CONTRACTOR SHALL PAY ALL FEES, INSPECTION AND CONNECTION CHANGES REQUIRED.
6. PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORK FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
7. ALL FIXTURES SHALL BE NEW, FREE FROM DEFECTS AND INDELIBLY MARKED WITH THE NAME OF THE MANUFACTURER, CLASS AND/OR WEIGHT. PLUMBING FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
8. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF NEW CONSTRUCTION AND FOR EXACT LOCATIONS OF NEW PLUMBING FIXTURES.
9. PLUMBING DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC TO THE EXTENT THAT MANY OFFSETS, BENDS, ELBOWS, SPECIAL FITTINGS AND EXACT LOCATIONS OF EQUIPMENT ARE NOT INDICATED. FINAL ROUTES AND DETAILS ARE FIELD COORDINATED.
10. THESE PLANS INDICATE APPROXIMATE DIMENSIONS ONLY FOR EQUIPMENT. EXACT DIMENSIONS MUST BE OBTAINED FROM THE EQUIPMENT MANUFACTURER.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR WITH HIGHEST QUALITY AND CRAFTSMANSHIP POSSIBLE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
12. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, BUILDING SLABS, EQUIPMENT, UTILITIES, AND FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE PERFORMANCE OF WORK. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
13. PROVIDE EXCAVATION, BACKFILLING AND PUMPING REQUIRED FOR WORK UNDER THIS SECTION. REMOVE SURPLUS MATERIALS AS DIRECTED. PROVIDE MINIMUM COVER OF 30" OVER BURIED PIPING.
14. ALL TRENCHES DEEPER THAN FOOTING AND PARALLELING THE SAME MUST BE AT LEAST 45 DEGREES THEREFROM. ALL LINES TO BE LOCATED AWAY FROM BEARING FOOTINGS, OR AS DIRECTED BY STRUCTURAL ENGINEER.
15. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED WHERE POSSIBLE, AND ALL EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
16. PROVIDE ACCESS PANEL (MINIMUM 12" X 12") OR UTILITY SPACE FOR ALL PLUMBING CONCEALED VALVES, EQUIPMENT, SLIP-JOINT CONNECTIONS AS REQUIRED BY CODE FOR SERVICE AND MAINTENANCE.
17. SEAL ALL OPENINGS AROUND PIPES PENETRATING THE FIRE RATED WALLS WITH APPROVED FIRE RATED MATERIALS. 19- INSTALL EXPANSION JOINTS IN THE VENT, WASTE AND EXPANSION LOOPS IN THE WATER AS REQUIRED BY THE LOCAL ADMINISTRATIVE AUTHORITY.
18. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
19. ALL HOSE BIBBS ARE TO HAVE NON-REMOVABLE BACKFLOW PREVENTION.
20. INDIVIDUAL SHUT-OFF VALVES SHALL BE PROVIDED AT EACH FIXTURE FOR EACH UNIT.
21. CONTRACTOR SHALL PROVIDE MAINTENANCE LABELS AFFIXED TO ALL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO THE OWNERS USE. THE LABELS SHALL INDICATE ROUTINE MAINTENANCE REQUIRED OR SHALL REFERENCE BY NUMBER, WHICH OPERATING AND MAINTENANCE REQUIREMENTS.
22. EQUIPMENT AND ACCESSORIES SHALL BE ACCESSIBLE FOR SERVICE, INSPECTION REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION. ENOUGH CLEARANCE SHALL BE MAINTAINED TO PERMIT CLEANING, REPLACEMENT, AND ACCESS.
23. NO PIPING WORK SHALL BE CONCEALED OR COVERED UNTIL PIPING HAS BEEN TESTED, INSPECTED AND APPROVED BY THE INSPECTOR.
24. CONTRACTOR SHALL KEEP A SET OF AS BUILT DRAWINGS ON THE JOB SITE AT ALL TIMES AND DELIVER A SET OF UP TO DATE AS-BUILTS TO THE ENGINEER AND THE OWNER AT THE COMPLETION OF THE PROJECT.
25. PROVIDE A SERVICE VALVE FOR EVERY BRANCH SUPPLIED BY THE MAIN WATER LINES.

REVISIONS	DATE
ISSUE FOR REVIEW 30%	AUG 11, 2023 1
REVISION	DATE 2
REVISION	DATE 3
REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

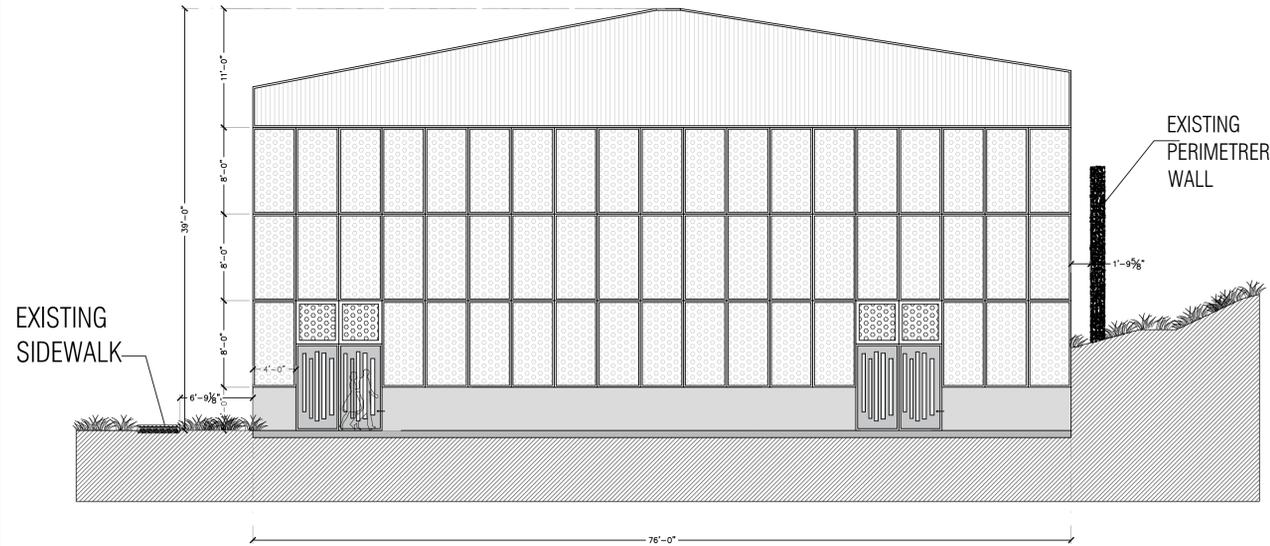
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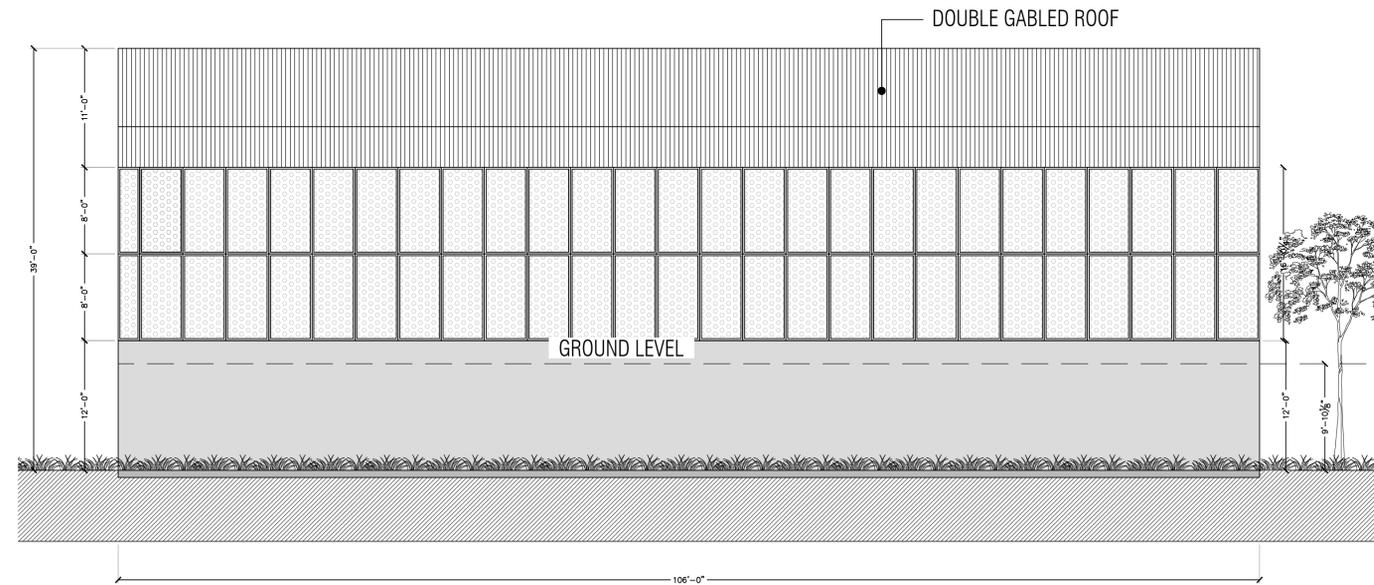
BASKETBALL BUILDING FRONT ELEVATION
Scale: 1/4"=1'-0"



BASKETBALL BUILDING - RIGHT SIDE ELEVATION
Scale: 1/4"=1'-0"



BASKETBALL BUILDING REAR ELEVATION
Scale: 1/4"= 1'-0"



BASKETBALL BUILDING - LEFT SIDE ELEVATION
Scale: 1/4"=1'-0"

WALL FINISH:
TERRACOAT G TEXTURE OR SIMILAR

TECHNICAL DATA
 SUITABLE PRIMER: TERRACO P PRIMER OR TEX PRIMER OR SIMILAR
 DILUTION / THINNING : WATER IF REQUIRED
 DRYING TIME 3 - 4 HOURS
 SPECIFIC GRAVITY 1.65
 VISCOSITY 35 - 45 CPS
 COLOUR: LIGHT GREY
 APPLICATION METHOD BRUSH OR ROLLER
 ROLLER APPLY 1 COAT OF TERRACO P PRIMER OR TEX PRIMER OR SIMILAR
 ALLOW TO CURE.
 APPLY TERRACOAT G BASED WITH A ROLLER DEPENDING ON

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL BUILDING DESIGN ELEVATIONS

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MAY 12, 2023 1
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ISSUE FOR REVIEW - 80%	SEPT 29, 2023 3
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REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW BASKETBALL BUILDING
DESIGN ELEVATIONS

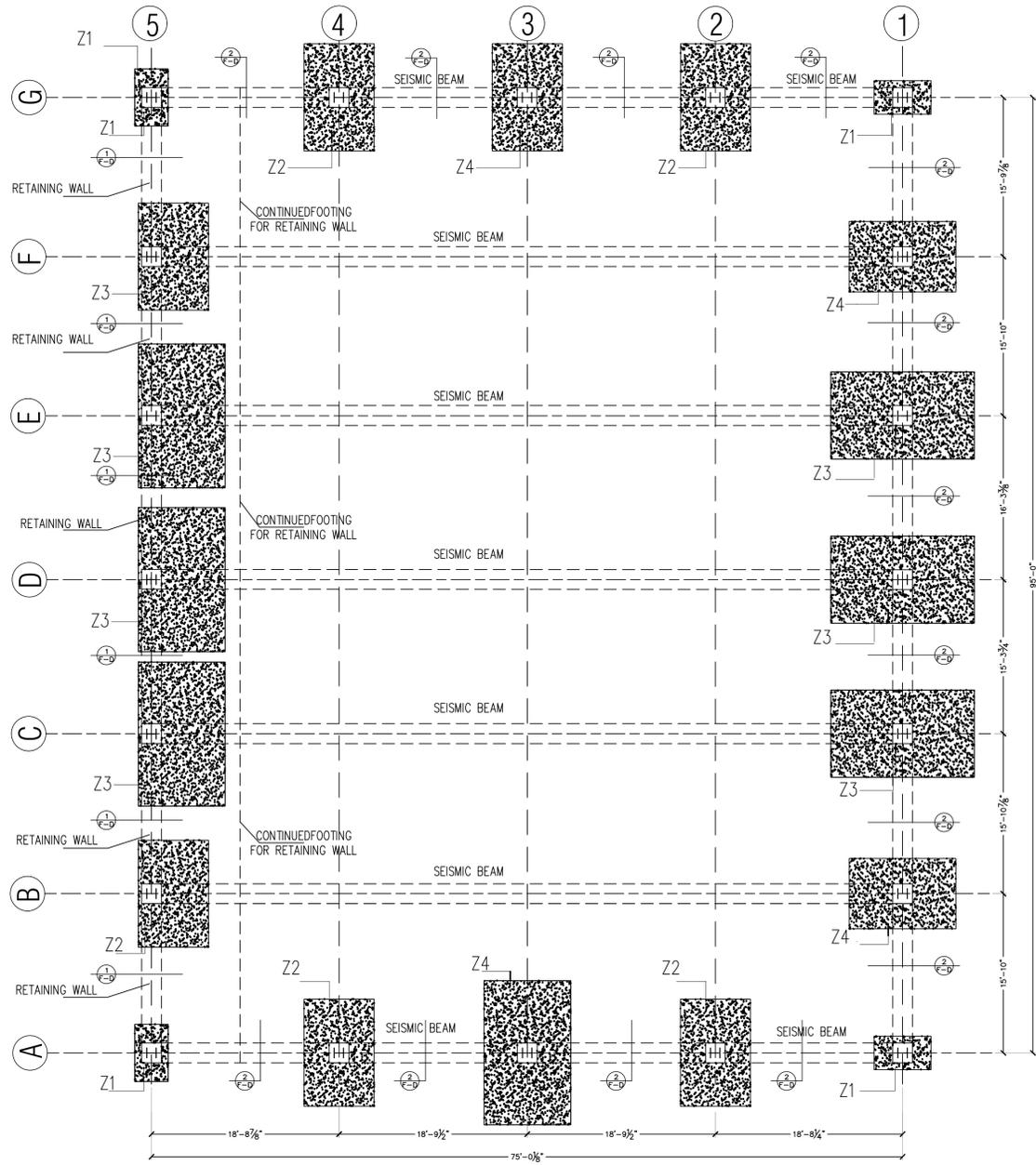
IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CRP-000888
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

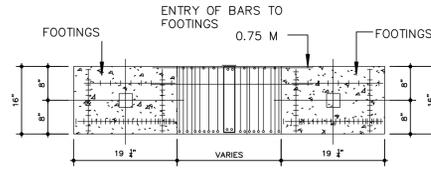
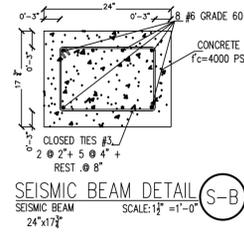
DATE
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DRWG. SHEET
S-1

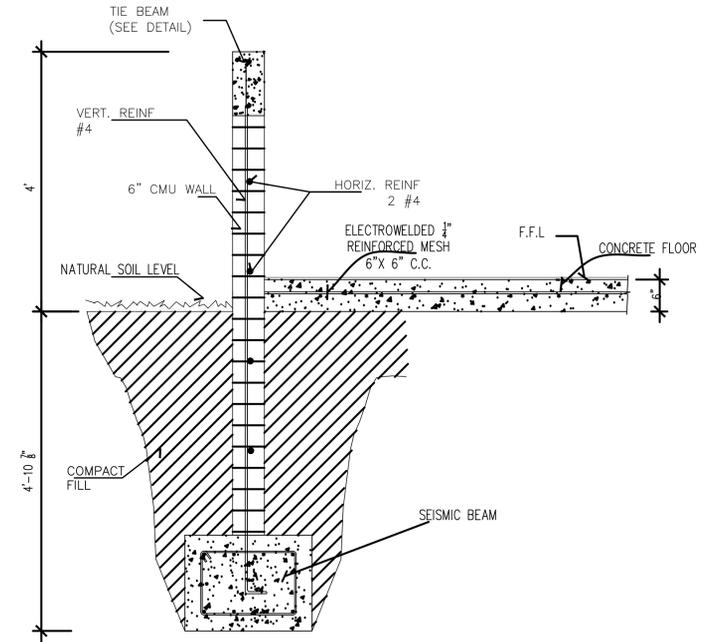
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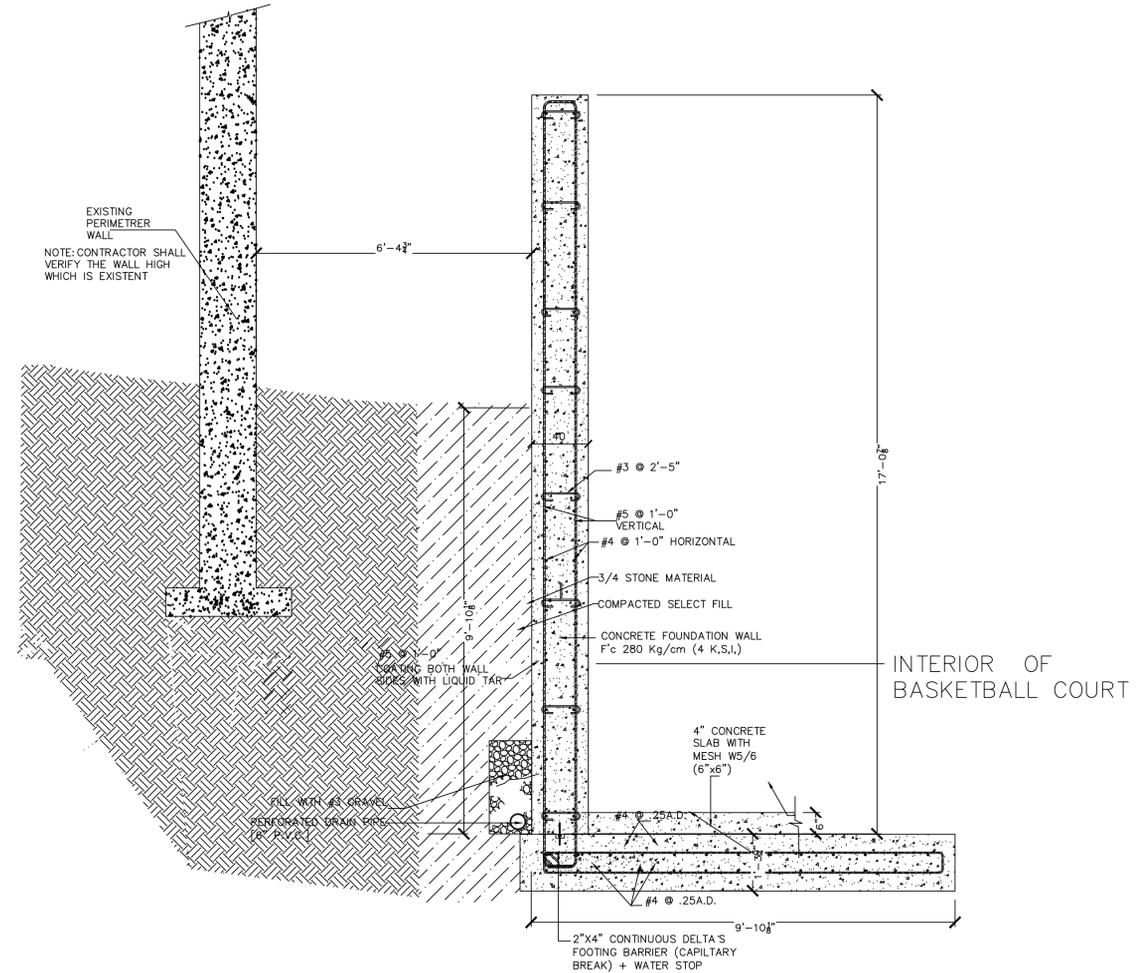
BASKETBALL FOUNDATION AND SEISMIC FLOOR PLAN
SCALE: 1/4" = 1'-0"



SEISMIC SECTION VIEW



TYPICAL - WALL SECTION 2
SCALE: 1" = 1'-0"



RETAINING WALL DETAIL 1
SCALE: 1" = 1'-0"

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL BUILDING FOUNDATION PLAN

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	17 MAY 2023
ISSUE FOR REVIEW - 60%	12 AUG 2023
ISSUE FOR REVIEW - 80%	19 SEP 2023
ISSUE FOR REVIEW - 90%	19 OCT 2023
REVISION	DATE

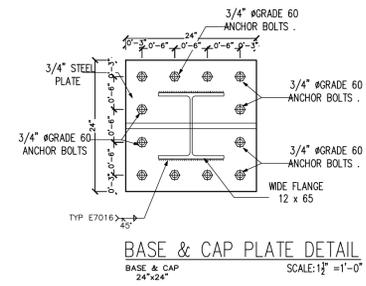
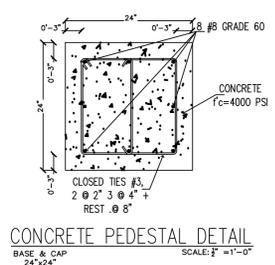
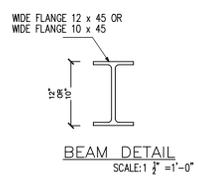
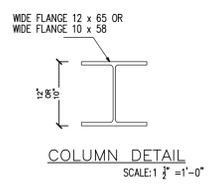
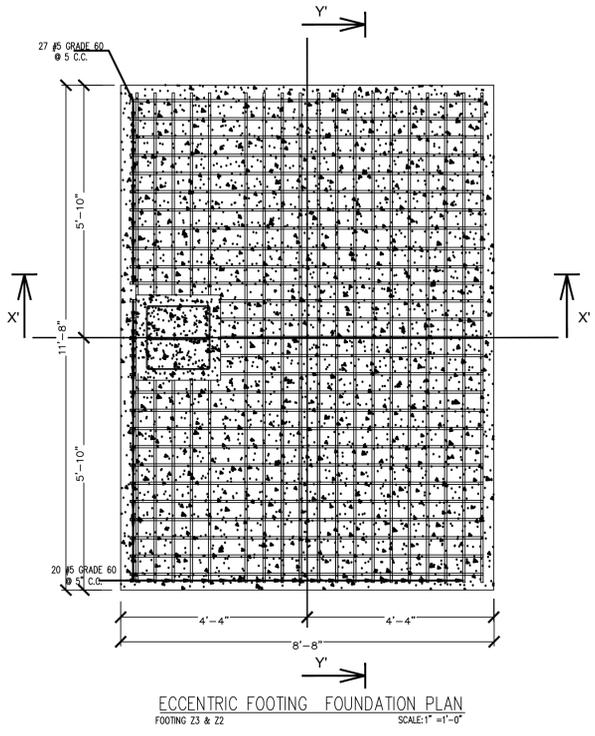
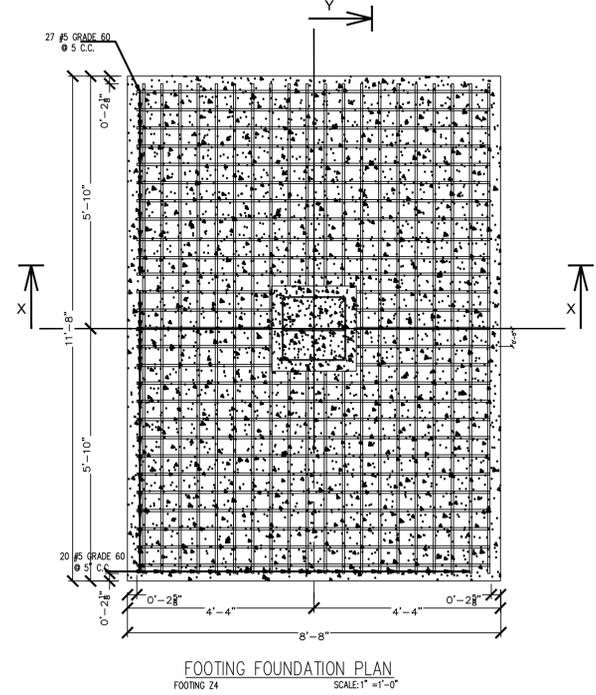
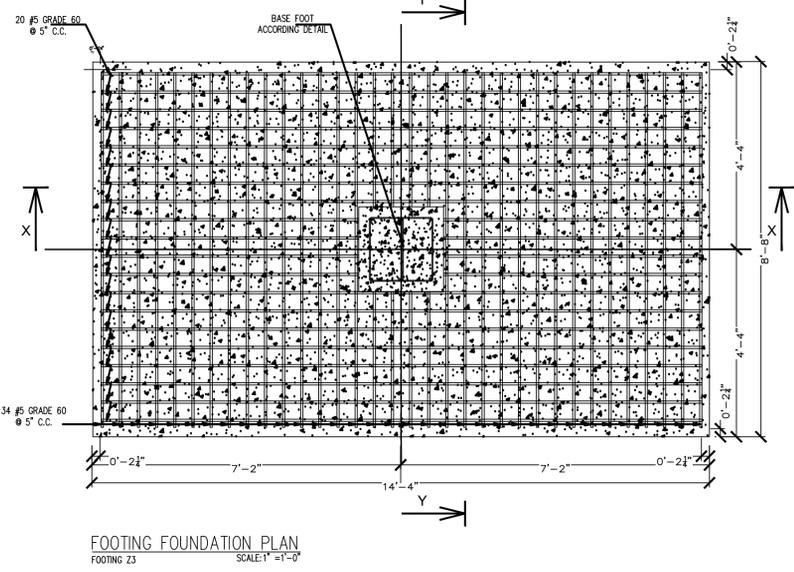
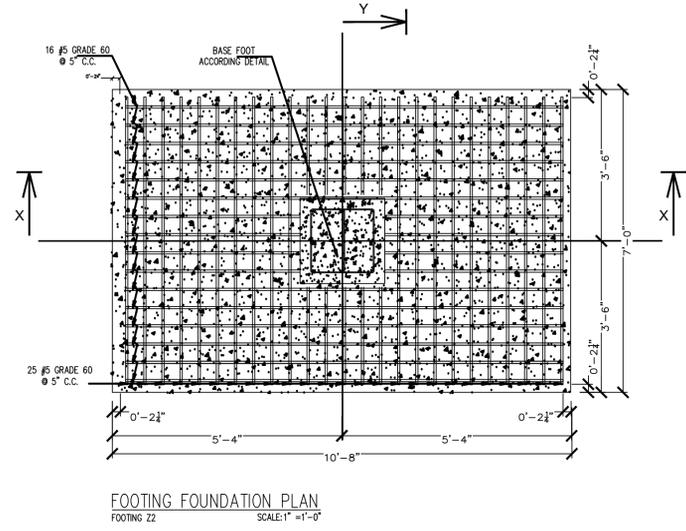
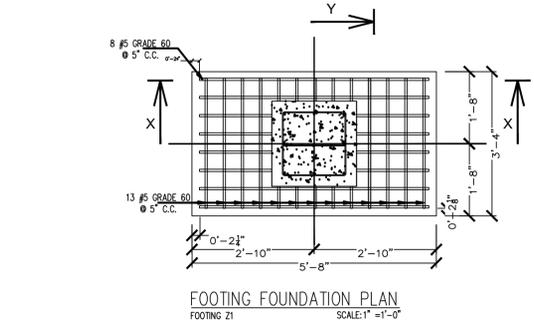
PROPOSED PLAN
NEW BASKETBALL BUILDING
FOUNDATION PLAN

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

DATE
ABRIL 2024
DWG. SHEET
S-2

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FOOTING & COLUMN SCHEDULE								
ID FOOTING	DIMENSION			REINFORTS		COLUMNS	MATERIAL	CONCRETE PRESSURE
	W	l	h	a	b			
Z1	5'-8"	3'-4"	16"	13 #5	8 #5	WF 10 x 58	A572 G50	4000 PSI
Z2	10'-8"	7'-0"	16"	25 #5	16 #5	WF 12 x 65	A572 G50	4000 PSI
Z3	14'-4"	8'-8"	16"	34 #5	20 #5	WF 12 x 65	A572 G50	4000 PSI
Z4	11'-8"	8'-8"	16"	20 #5	27 #5	WF 12 x 65	A572 G50	4000 PSI

BEAM SCHEDULE					
ID BEAM	DIMENSIONS			REINFORTS	
	W	l	h	a	b
S-B	24"	ACCORDING FOUNDATION	17 3/4"	8 #6	C.TIES. #3
C-B	12"	ACCORDING FOUNDATION	6"	2 #4	C.TIES. #3

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL COURT STRUCTURAL FOOTING DETAILS 1

COLUMN 1:
 IT IS A W12X65 PROFILE THAT WIDENS TO A HEIGHT OF 24 INCHES AT THE ROOF LEVEL (32 FEET)
 AXIS ASSUMPTION FROM LEFT TO RIGHT 1-5, A-G, SOUTH TO NORTH

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REVISION	OCT 19, 2023
REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW BASKETBALL BUILDING
STRUCTURAL FOOTING DETAILS 1

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
 PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
 PROPOSED PLAN

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MASONRY WORK

1. MATERIALS:

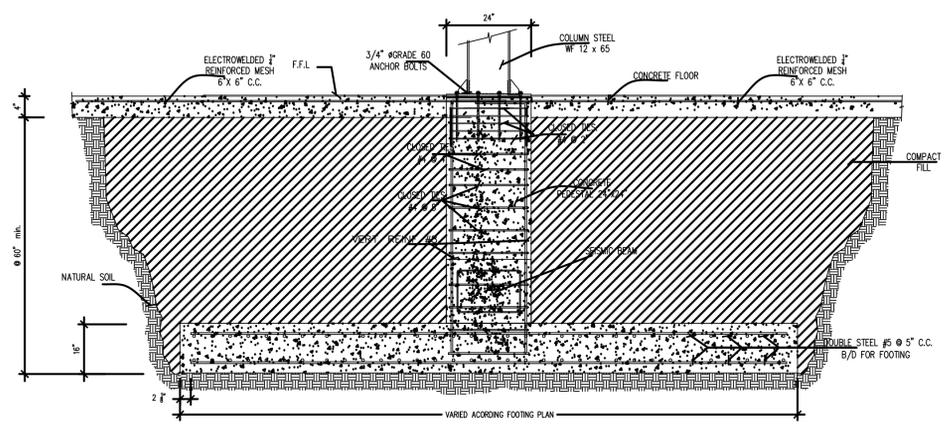
- Reinforcing Bars: ASTM A615 Grade 60, deformed.
 Weldable Reinforcing Bars: ASTM A706 Grade 60, deformed.
 Concrete Masonry Units: Grade N, F'm = 1500 psi (Type M or S mortar)
 Grout Strength: 2000 psi @ 28 days
 Adhesive Anchors: Hilti "HY20" adhesive, when anchoring into brick or hollow CMU material.
 Hilti "HY150" or Simpson "SET" adhesives, when anchoring into grouted solid CMU.
 Expansion Anchors: Hilti "Kwik Bolt 3" anchors U.N.O.

2. CONTINUITY:

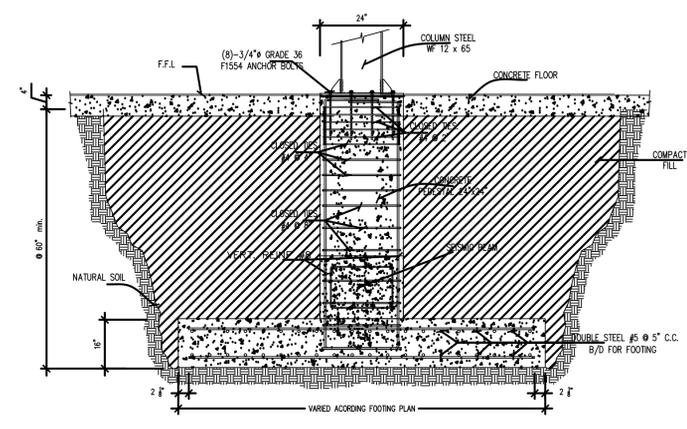
All wall and foundation reinforcing shall be continuous unless noted otherwise. Continuity at corners and intersections shall be achieved using corner bars and contact lap splices, see detail 1/S3.1. Continuity at other locations may be achieved using contact lap splices shown on approved shop drawings. Location of lap splices shall be shown on the shop drawings. Unless noted otherwise, the following lap splices shall be used:

Bar Size:	#3	#4	#5	#6	#7
Masonry Lap Splice:	20"	24"	30"	36"	48"

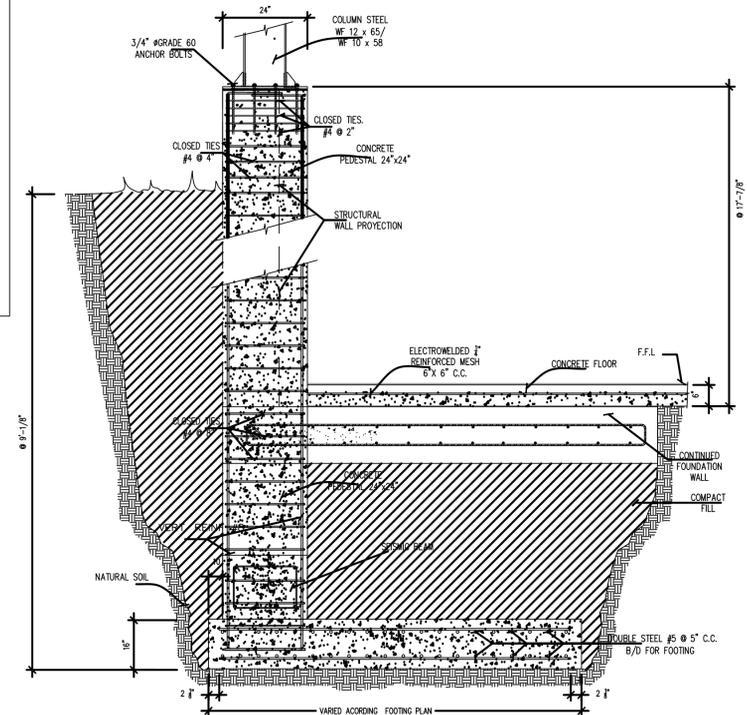
- All masonry work shall comply w/ the 2009 International Building Code and ACI 530-05 and ACI 530.1-05
- Requirements for masonry wall construction are given on the drawings and Wall Schedule. All reinforcing shown shall be continuous in grout-filled cells. See note above for continuity requirements.
- Provide dowels in footings and in concrete walls at each vertical rebar. For footings less than 2'-0" deep, dowels shall have a 90° ACI standard hook unless noted or detailed otherwise. The dowels shall be the same size and spacing, and lap spliced with the vertical reinforcing in the wall.
- Locate vertical reinforcing at corners, jambs, intersections, each side of control joints, and at spacing noted on the drawings.
- Unless noted otherwise on the plans, all openings shall have a lintel at the head. For any openings not shown on plan and less than 2'-0" thru CMU, the lintel shall be an 8" deep minimum bond beam bearing 8" on each jamb. A 1"Ø hole shall be cut in the bottom of the lintel unit at each jamb to place the vertical jamb reinforcing. The bond beam shall be reinforced with (2)-#4's horiz. bottom. Where a lintel is not shown on the drawings and cannot be made in accordance with these requirements, submit the opening size and location to the Architect/Engineer for determination of the lintel to be used.
- Submit reinforcing shop drawings for all work. Provide wall elevations showing the location of openings in masonry and the location of reinforcing including lap splices. Vertical reinforcing lengths shall be coordinated with heights of CMU to be placed.
- Complete work in accordance with ACI 530-05 and ACI 530.1-05. Use "fine" grout having a slump of 8 to 11 inches. Place grout in lifts not exceeding 4'-8" unless approved by architect.



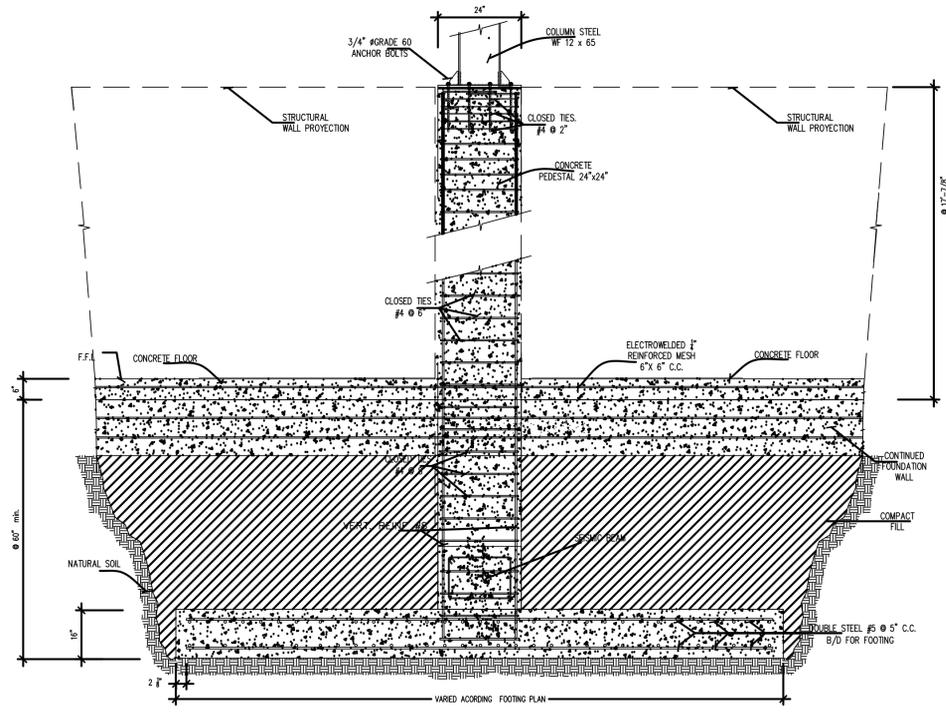
FOOTING & CONCRETE PEDESTAL SECTION X-X
 FOOTING 21,22,23 & 24 SCALE: 1"=1'-0"



FOOTING & CONCRETE PEDESTAL SECTION Y-Y
 FOOTING 21,22,23 & 24 SCALE: 1"=1'-0"



ECCENTRIC FOOTING FOUNDATION PLAN X-X
 ECCENTRIC FOOTING 23 & 24 SCALE: 1"=1'-0"



FOOTING & BASE FOOT SECTION Y-Y
 FOOTING 23 & 24 SCALE: 1"=1'-0"

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX NEW BASKETBALL COURT STRUCTURAL FOOTING DETAILS 2

REVISIONS	DATE
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ISSUE FOR REVIEW - 90%	OCT 19, 2023
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REVISION	DATE

PROPOSED PLAN NEW BASKETBALL BUILDING STRUCTURAL FOOTING DETAILS 2

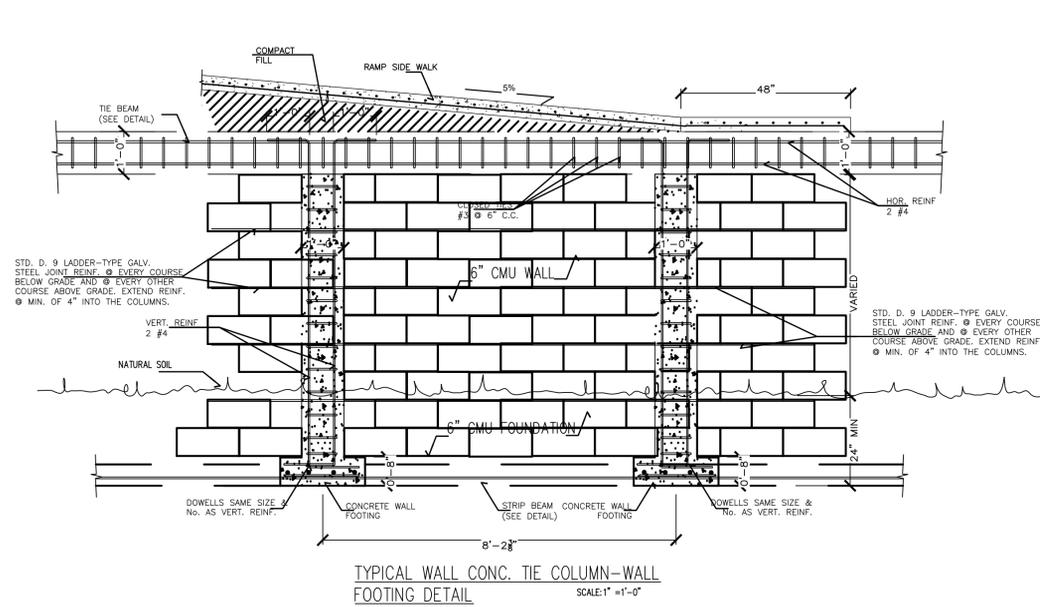
IMPROVEMENTS TO THE COROZAL SPORT COMPLEX FACILITY

PR-CRP-000883
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL PROPOSED PLAN

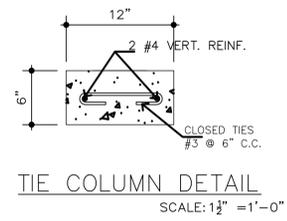
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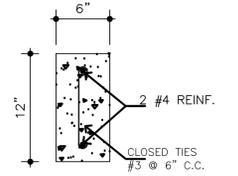


TYPICAL WALL CONC. TIE COLUMN-WALL FOOTING DETAIL
SCALE: 1 1/2" = 1'-0"

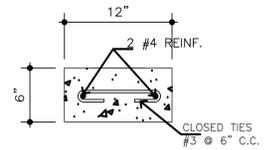
NOTE: THE WALL IS ALL GOING INTO SIDE WALK AND SIDE WALK RAMP.



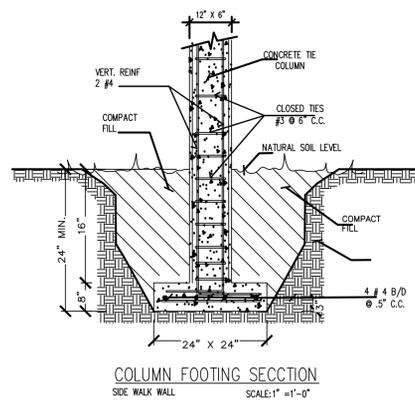
TIE COLUMN DETAIL
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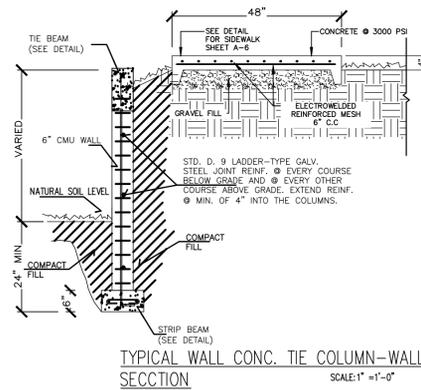
TIE BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



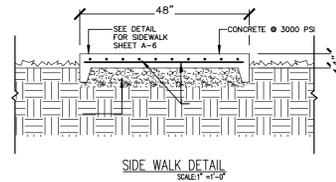
CONTINUED BEAM DETAIL
SCALE: 1 1/2" = 1'-0"



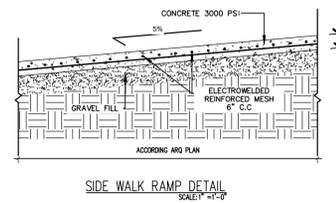
COLUMN FOOTING SECTION SIDE WALK WALL
SCALE: 1" = 1'-0"



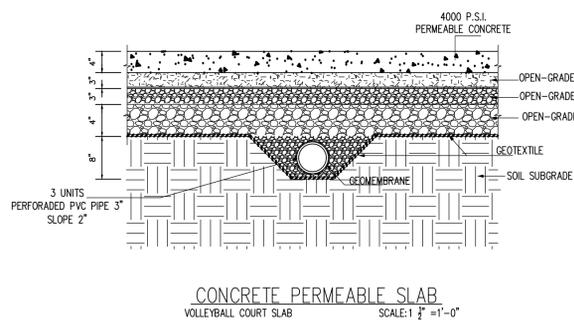
TYPICAL WALL CONC. TIE COLUMN-WALL SECTION
SCALE: 1" = 1'-0"



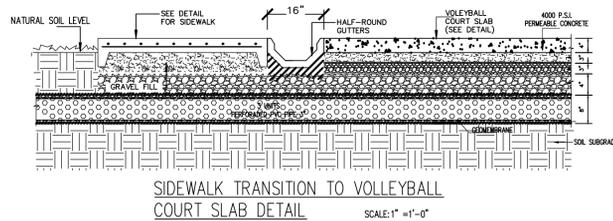
SIDE WALK DETAIL
SCALE: 1" = 1'-0"



SIDE WALK RAMP DETAIL
SCALE: 1" = 1'-0"



CONCRETE PERMEABLE SLAB VOLLEYBALL COURT SLAB
SCALE: 1 1/2" = 1'-0"



SIDEWALK TRANSITION TO VOLLEYBALL COURT SLAB DETAIL
SCALE: 1" = 1'-0"



VOLLEYBALL COURT DRAINAGE PLAN
SCALE: 1/2" = 1'-0"

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	12/2023 1
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ISSUE FOR REVIEW - 80%	8/2023 3
ISSUE FOR REVIEW - 90%	9/2023 4
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REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW VOLLEYBALL COURT
WALL AND SLAB DETAILS

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

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CAST-IN-PLACE CONCRETE WORK (ADDM3)

1. MATERIALS:						
Concrete:						
Class	Locations	28-day Strength	Max Slump	Max Aggregate	Air Entrainment	Density
TYPE I	Footings and all other concrete not noted below.	4000 PSI	5"	1"	5%-7%	---
TYPE II	Interior slab-on-grade and Foundation Walls.	4000 PSI	5"	1"	N.A.	---
TYPE III	Slabs-on-Metal Deck	3500 PSI	5"	3/4"	N.A.	---
TYPE IV	Exterior slabs-on-grade	3500 PSI	5"	1"	5%-7%	---
TYPE V	Stair Towers and foundation walls	4500 PSI	5"	1"	N.A.	---

Other Materials:

Reinforcing Bars: ASTM A615 Grade 60, deformed.
 Deformed Bar Anchors: ASTM A496, with a minimum tensile strength of 80 ksi.
 Welded Wire Fabric: ASTM A185, flat sheet type.
 Anchor Bolts: ASTM F1554 [Gr. 36], Headed Type, U.N.O.
 Adhesive Anchors: Hilti "HY200" Safeset, Simpson "AT, ET, or SET", or Red Head "Ceramic 6" adhesives when anchoring into concrete.
 Expansion Anchors: Hilti "Kwik Bolt TZ" or Simpson "Strong-Bolt", when anchoring into concrete

2. CONTINUITY:

All reinforcing shall be continuous unless noted otherwise. Continuity at corners and intersections shall be achieved using corner bars and contact lap splices, see detail 1/S3.1. Continuity at other locations may be achieved using contact lap splices shown on approved shop drawings. Location of lap splices shall be shown on the shop drawings. Unless noted otherwise, the following lap splices shall be used: (All lap splices are class B splices)

Location: #3 #4 #5 #6 #7 #8 #9 #10 #11

3000 & 3500 PSI Concrete:
 Top Bars (*): 21" 29" 35" 46" 71" 93" 118" 149" 184"
 Other Bars: 16" 22"(**) 27" 35" 55" 71" 91" 115" 142"

4000 & 4500 PSI Concrete:
 Top Bars (*): 16" 19" 25" 36" 61" 80" 102" 129" 159"
 Other Bars: 16" 16"(**) 19" 28" 47" 62" 78" 99" 123"

(*)Top bars are horizontal reinforcing where more than 12" of concrete is cast in the member below the reinforcing.

(**)For #4 epoxy coated rebar, use 21" splice length at 3000 and 3500 PSI conc. and 23" at 4000 and 4500 PSI.

Mechanical connections may be used in lieu of lap splices provided approval is obtained from the Architect/Engineer. Connections shall develop in tension 125 percent of the specified yield strength of the bar. All mechanical connections shall be shown on the shop drawings.

3. GENERAL:

A. All concrete work shall comply with the 2009 International Building Code and ACI 301-08.

B. Coordinate work with all other work.

C. All reinforcing shall be continuous, see notes above. All reinforcing, anchor bolts, and other embedded items shall be secured in place prior to placing concrete.

D. Construction joints shall be keyed joints, unless noted otherwise, with reinforcing continuous through the joint. Construction joints shall be located in a manner not to affect the strength of the concrete. Concrete on one side of construction joints shall not be placed less than 24 hours after placement of concrete on the opposite side of the construction joint.

E. Clear cover from reinforcing to surfaces of concrete shall be as shown. Clear distance between parallel bars in a layer shall be as shown on the plans with minimum of 1" or the diameter of the reinforcing, whichever is greater. Clear distance between parallel bars in two or more layers shall be as shown on the plans with a minimum of 1".

4. FOOTING WORK:

A. See plans for Footing Schedule. Coordinate footing work with all other work.

B. All footing excavations shall be inspected and approved by the Geotechnical Engineer prior to placing footing concrete.

C. Pipes and other work which require trenching adjacent to pad footings and parallel to continuous footings shall not be located below lines extending downward from the bottom edges of the footing at a 45-degree angle from the horizontal. Pipes and other work perpendicular to continuous footings may be located beneath the footing. Footing elevations may be lowered if approved on the footing shop drawings.

D. Show all footing step locations and reinforcing on the footing reinforcing shop drawings.

5. SLAB-ON-GRADE WORK:

A. Coordinate slab-on-grade work with all other work. Provide thickened slabs, depressed slabs, equipment pads, blockouts, etc. as needed.

B. Saw cut control joints in slab to a depth equal to 1/3 the slab thickness.

C. Slabs-on-grade Requirements:
 1. Thickness: 4" Minimum
 2. Reinforcing: 6x6-W1.4xW1.4 w.w.f. (See Contractor's Option below)
 3. Control Joints: 10'-0" o.c. maximum each way, unless noted otherwise.

D. Separate S.O.G. w/ 1/2" expansion joint material from all columns and walls.

E. All slabs-on-grade shall have a 15 mil "STEGO Wrap" Vapor Barrier beneath the slab.

F. Fill and subgrade shall be compacted to the following minimums:

Cohesive Soils: 90% of the maximum dry density at a moisture content between -1% and +5%, per ASTM D1557, Modified Proctor

Cohesionless Soils: Compact cohesionless soil under floor slabs with vibratory equipment. 7" maximum depth.

6. STRUCTURAL STOOPS

A. Slabs at structural stoops shall be 4" minimum concrete slab on 4" biodegradable void forms. Reinforce slabs with #4's @ 8" each way centered in the slab.

B. Slabs at stoops shall bear on and be supported by concrete footings/walls. Coordinate size and locations with plans and Architectural Drawings.

7. CONCRETE SLABS ON METAL DECK:

A. Place concrete slab over metal deck with the minimum thickness described on the plans. The top of the slab shall be placed to the elevation shown on the plans. Because beams will deflect during erection and concrete placement more concrete will be required than theoretically estimated using a uniform slab thickness.

B. See plans and sections for slab reinforcing requirements.

C. Openings in Slabs:

(1) Some but not all openings are shown on the Structural Drawings. Contractor shall coordinate location and size of all openings with other work [e.g.: Mech., Elec., etc.].

(2) Openings in concrete slabs up to 10" in diameter / width may be core drilled or saw cut as long as only one deck flute is interrupted.

(3) Openings greater than 10" and not specifically framed on the drawings must be brought to the attention of the structural engineer. Trevor Larsen 402-504-9178.

(4) Multiple small openings spaced closer than 12" edge to edge shall be considered one opening and must meet the requirements listed in (3) above.

D. Do not support piping in excess of 250 lb from slab-on-metal deck. Any location where larger loads occur supplemental framing shall be provided to transfer the loading to the steel framing members. All plumbings attachments to slabs and structure shall be designed by the Plumbings contractors engineer.

8. CONCRETE WALLS:

A. Coordinate with architectural and mechanical drawings & specifications for wall locations & locations of openings thru walls for doors, windows, louvers, etc. See architectural for the location & type of finish required on any exposed concrete walls.

B. Continuity shall be maintained throughout all corners and intersections. See Cast-In-Place Concrete Work Note 2.

C. Openings thru Walls:

(1). All openings thru concrete walls shall be formed or sleeved. Sawcutting or core drilling is not permitted. Coordinate openings with all other work.

(2). Openings thru the concrete for windows, doors, plumbing, etc. are shown on the architectural and mechanical drawings and shall be the rough opening required for installation of the window, door, etc.

(3). For openings thru concrete walls less than 1'-6" in maximum direction, relocate wall reinforcing to each side of opening and place (2)-#4's on each side of the opening extending 2'-0" past each edge of the opening.

D. Walls shall have dowels into the footing at each vertical bar matching the size and spacing of the vertical bars, unless noted otherwise. Dowels shall have ACI STD. 90° hook 3" clear the bottom of the footing, unless noted otherwise.

E. Coordinate the finish required on exposed concrete walls with architectural drawings and specifications.

F. Where walls are shown integral with pilasters, the pilasters and walls shall be poured concurrently with

EXTERIOR VENEER LINTELS

1. All veneer shall be supported at the head of openings.

2. Brick veneer : Unless noted otherwise, use a galvanized steel angle bearing 8" at each end on a 4"x8" 16oz. Copper plate or (2)-layers of roofing felt. Use the following:

Openings up to 4'-0": L5"x5"x5/16"

Any opening that can not be made in accordance with the requirements above and are not detailed on the Structural Drawings, shall be brought to the attention of the Architect/Engineer for determination of lintel size.

CURTAIN WALLS

1. Curtain wall units shall be supported by the structure as listed in these notes and the structural details. Requested deviations must be submitted to the structural engineer of record at tarsen@td2co.com or by phone at 402-504-9178

2. Curtain wall dead load may be supported at the foundation or the structured floor levels. It may not be supported at the roof. Lateral tie backs at the roof are for wind or seismic loads only.

3. Miscellaneous steel required to support the curtain wall units vertically or laterally is not shown on the contract documents. It shall be designed by a registered engineer in the state of Nebraska and shall be supplied by the curtainwall manufacturer or installer. Connections to the bottom flange of a beam that induce a load perpendicular to the beam shall be provided with a kicker meeting the above requirements.

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX CONCRETE WORKS NOTES AND SPECIFICATIONS



CONSULTANT

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ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

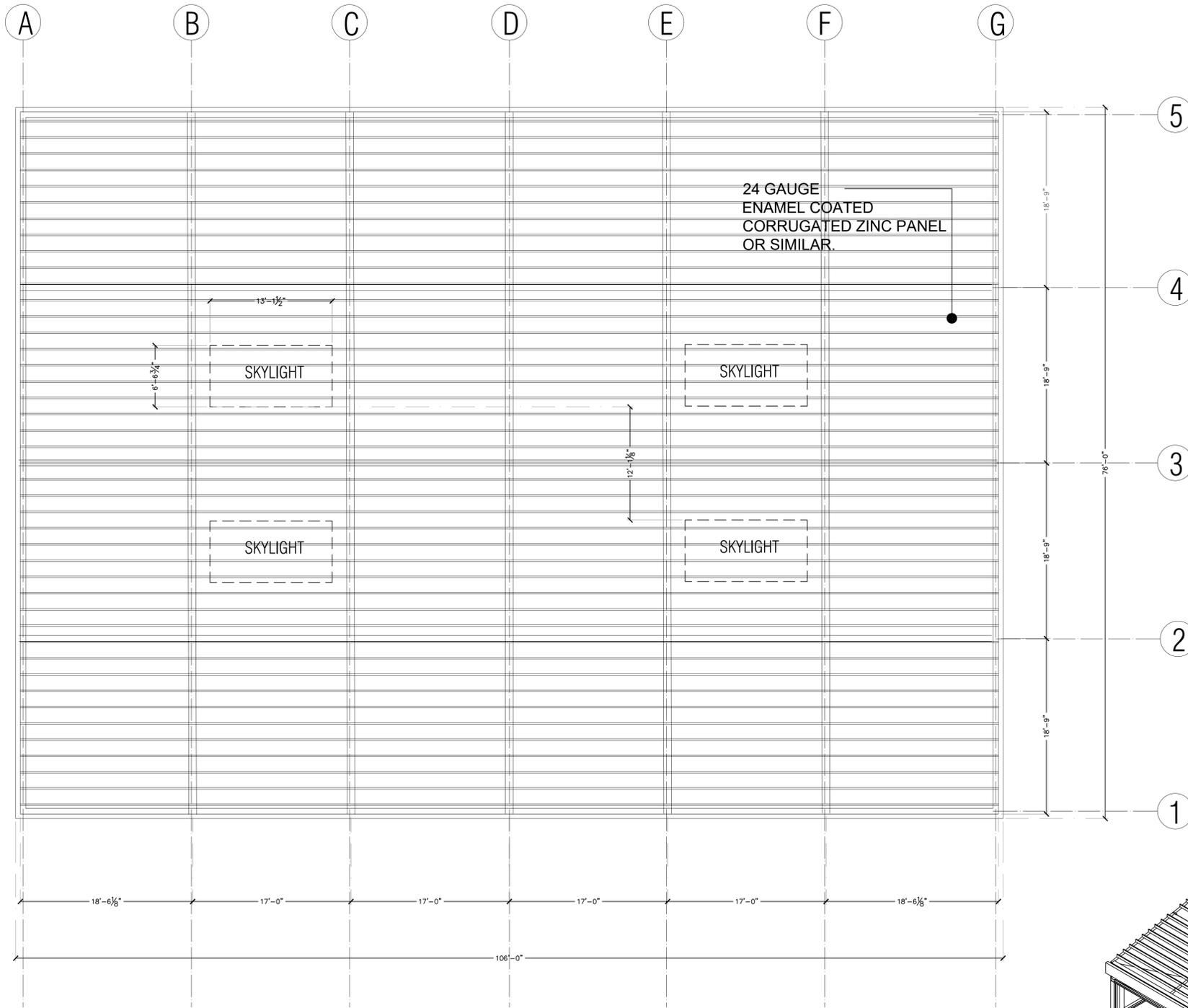
PROPOSED PLAN
CONCRETE WORKS
NOTES AND SPECIFICATIONS

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

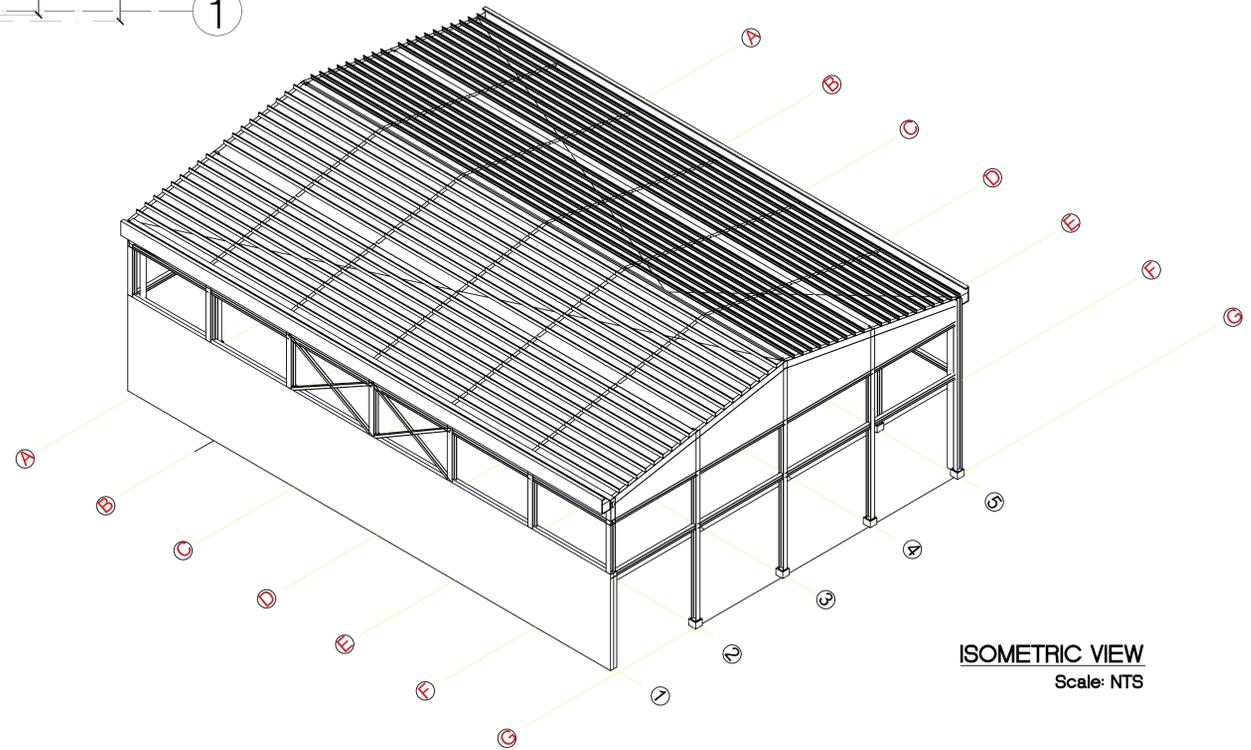
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DATE ABRIL 2024
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STEEL ROOF FRAMING PLAN
Scale: $\frac{3}{8}'' = 1'-0''$



ISOMETRIC VIEW
Scale: NTS

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL COURT STRUCTURAL ROOF PLAN AND ISOMETRIC

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REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW BASKETBALL BUILDING
STRUCTURAL ROOF PLAN AND ISOMETRIC

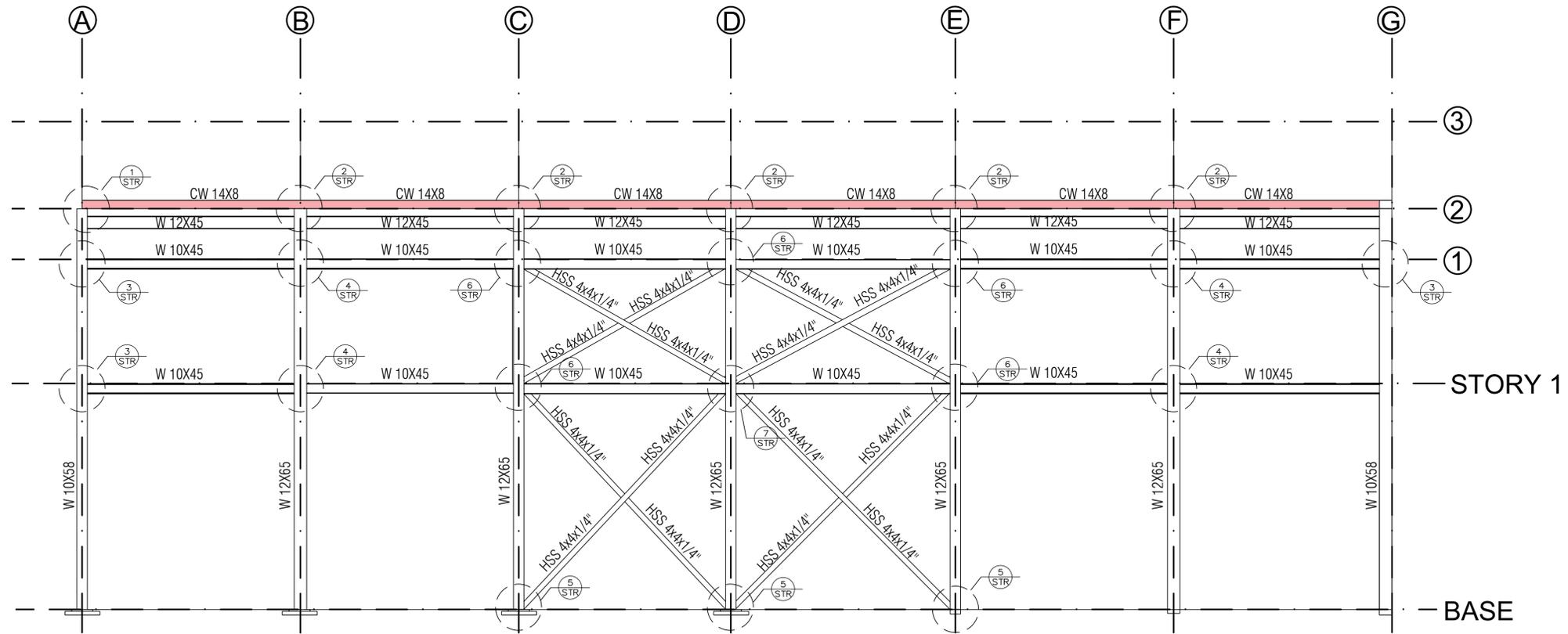
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PHASE
ARCHITECTURAL
PROPOSED PLAN

DATE
ABRIL 2024

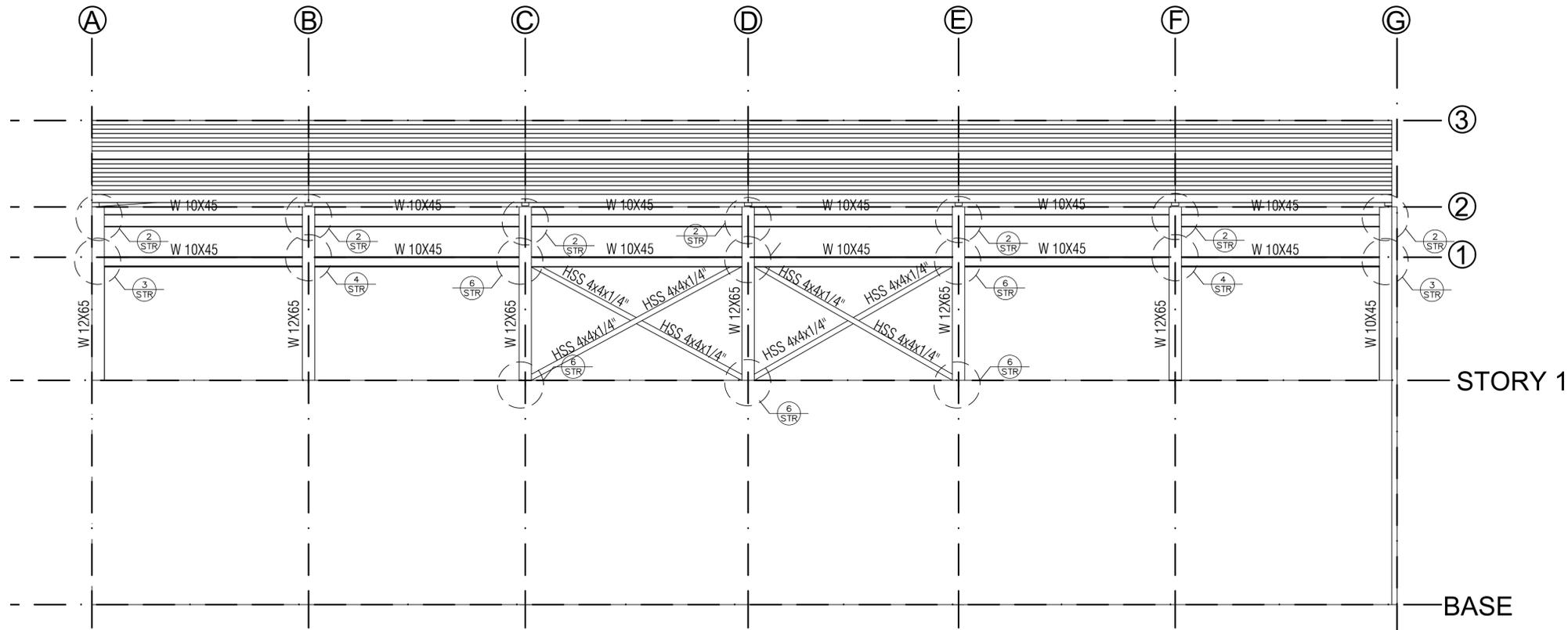
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TRUSS RIGHT SIDE DETAIL SECTION 5

Scale: $\frac{3}{8}$ " = 1'-0"



TRUSS LEFT SIDE DETAIL SECTION 1

Scale: $\frac{3}{8}$ " = 1'-0"

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL BUILDING LATERAL TRUSS DETAILS

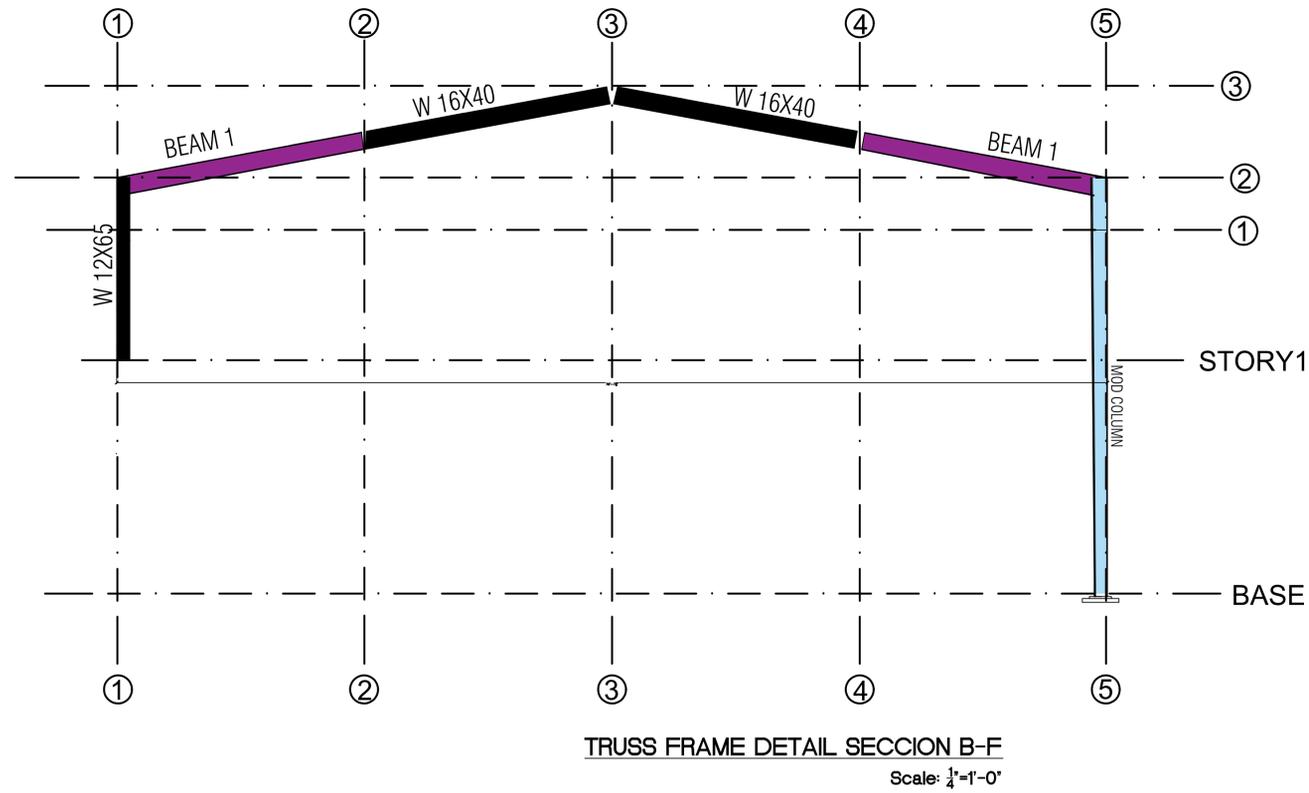
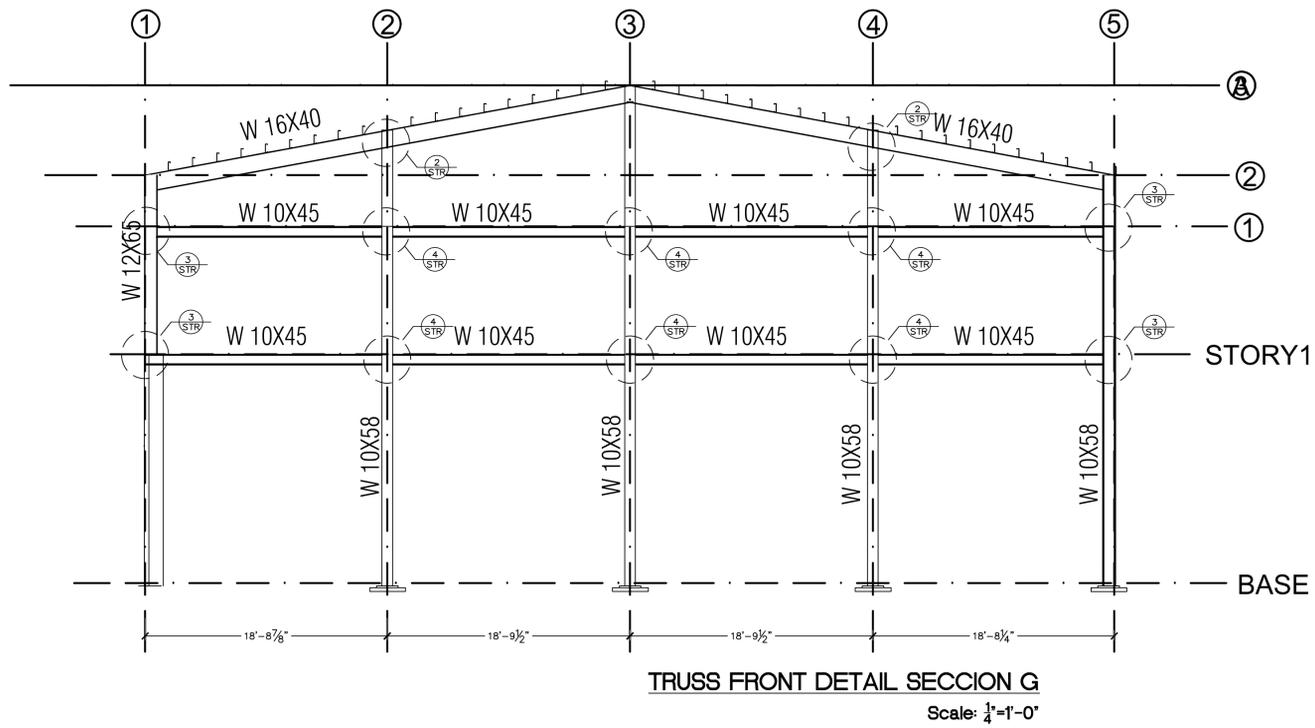
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REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW BASKETBALL BUILDING
LATERAL TRUSS DETAILS

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

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IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL COURT FRONTAL AND REAR TRUSS DETAILS

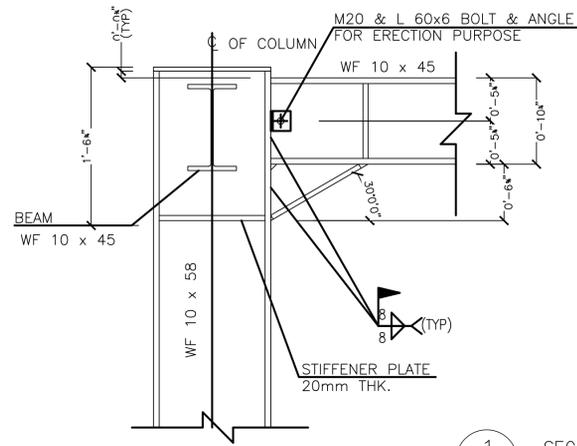
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REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
NEW BASKETBALL BUILDING
FRONTAL AND REAR TRUSS DETAILS

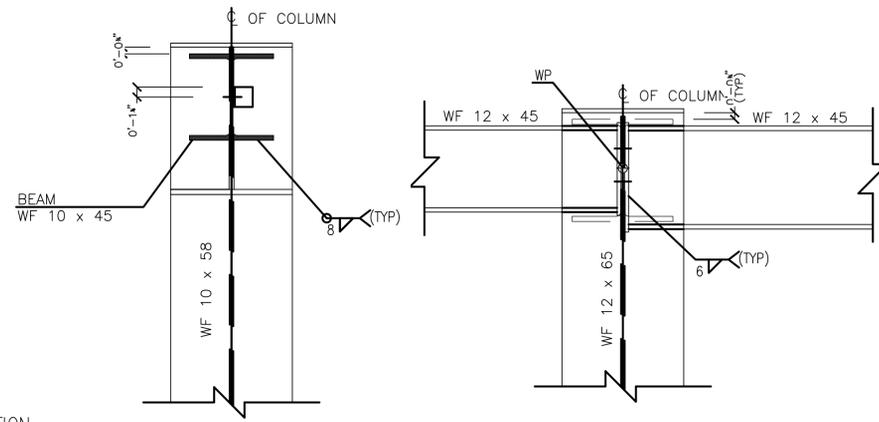
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ARCHITECTURAL
PROPOSED PLAN

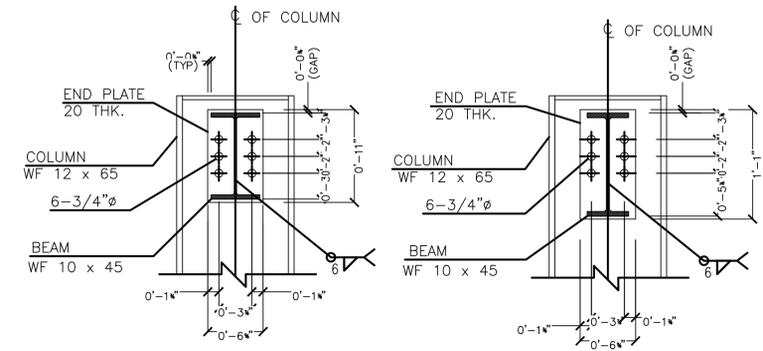
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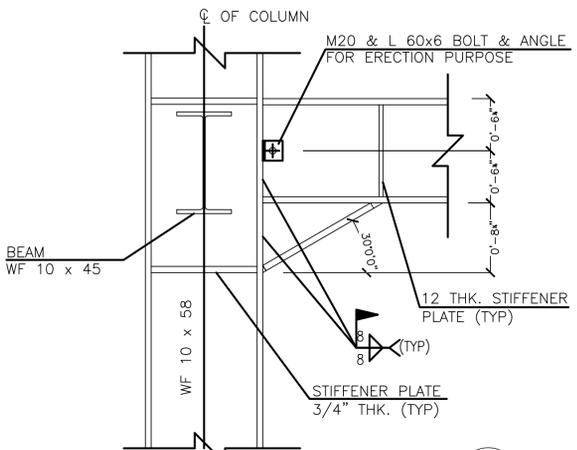
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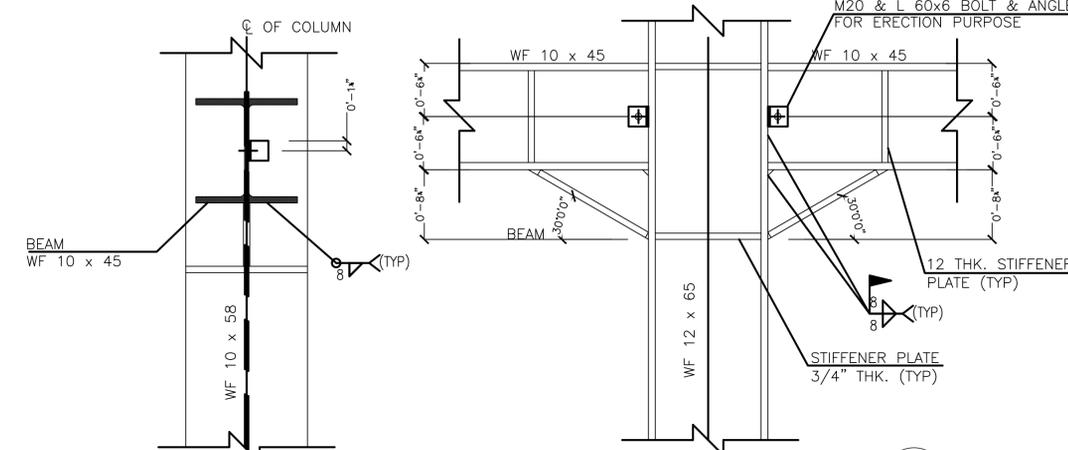
2 SECTION STR SCALE: 1 1/2" = 1'-0"



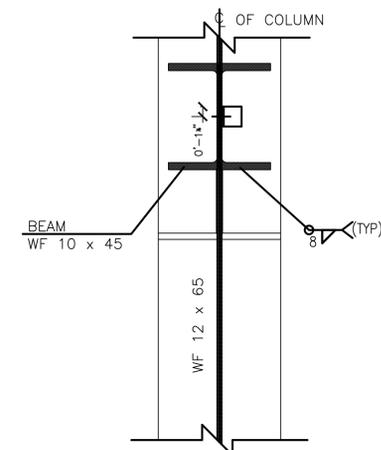
REINFORCS DETAIL SCALE: 1 1/2" = 1'-0"



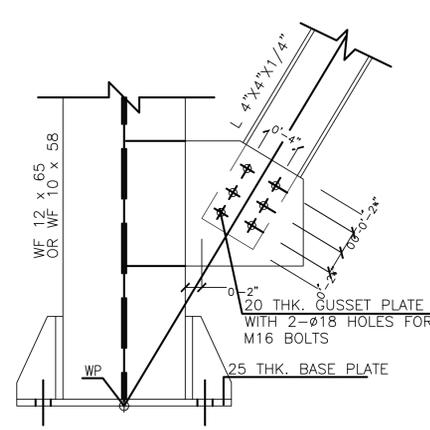
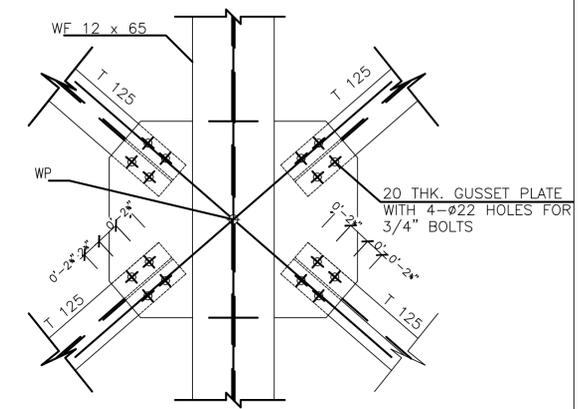
3 SECTION STR SCALE: 1 1/2" = 1'-0"



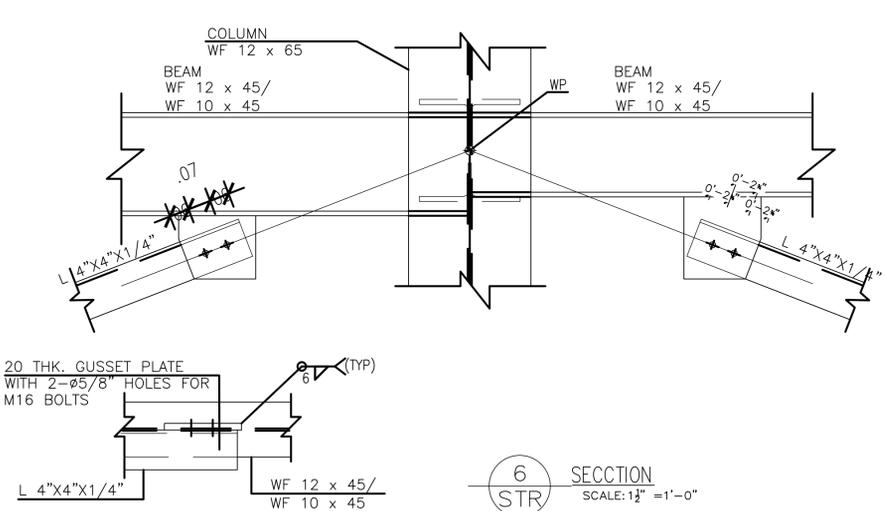
4 SECTION STR SCALE: 1 1/2" = 1'-0"



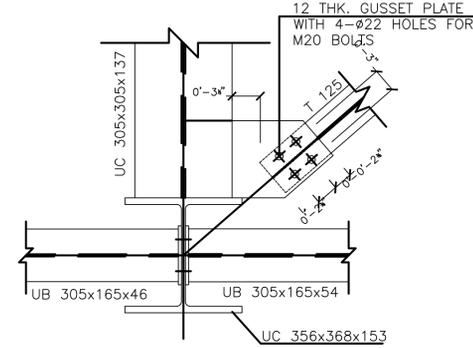
7 SECTION STR SCALE: 1 1/2" = 1'-0"



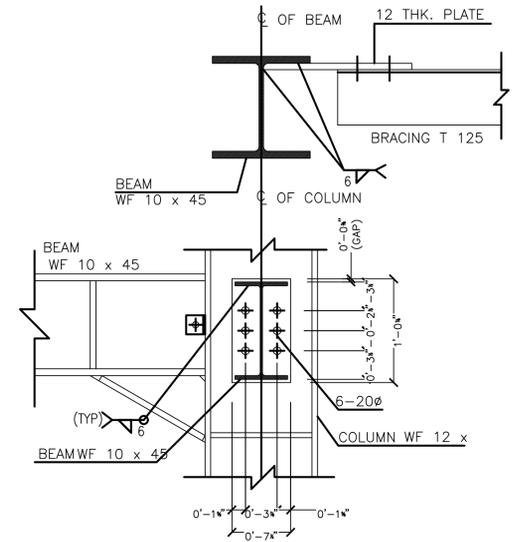
5 SECTION STR SCALE: 1 1/2" = 1'-0"



6 SECTION STR SCALE: 1 1/2" = 1'-0"



CONNECTION DETAILS SCALE: 1 1/2" = 1'-0"



7 SECTION STR SCALE: 1 1/2" = 1'-0"

**IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
NEW BASKETBALL COURT STRUCTURAL STEEL DETAILS**

APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
1051 Montecarlo Avenue #846 Rio Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Phone: 787-731-5077 Fax: 787-771-5069 Email: ae@aege.com

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ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

**PROPOSED PLAN
NEW BASKETBALL BUILDING
STRUCTURAL STEEL DETAILS**

**IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY**

PR-CRP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

PHASE	DATE
ARCHITECTURAL PROPOSED PLAN	ABRIL 2024
DRAWING SHEET	S-10

STRUCTURAL STEEL WORK

1. MATERIALS:

Structural Steel Beams:	ASTM A992, Grade 50
Angles, Channels, Plates, and Bars:	ASTM A36
Steel Tubes:	ASTM A500 Grade B
Steel Pipe:	ASTM A53, Type E or S, Grade B
Headed Studs:	ASTM A108, Grade 1015
Anchor Bolts:	ASTM F1554 [Gr. 36], Headed Type, U.N.O.
Non-High Strength Bolts:	ASTM A307
High Strength Bolts:	ASTM A325 bearing type connections, U.N.O.

Adhesive Anchors:	Concrete:
	- Hilti "HY200", Simpson "AT, ET, or SET", or Red Head "Ceramic 6", adhesives.
	Masonry :
	- Hilti "HY70" or Simpson "SET" adhesives with screen tube when anchoring into brick or hollow CMU.
	- Hilti "HY200" or Simpson "SET" adhesives when anchoring into grouted solid CMU.

Welding Electrodes:	E70
Deformed Bar Anchors:	ASTM A496, with a minimum tensile strength of 80 ksi.

2. STRUCTURAL STEEL:

A. All steel work shall comply with the 2009 International Building Code and AISC - American Institute of Steel Construction - "Code of Standard Practice for Steel Buildings and Bridges".

B. Provide structural steel work as shown on the drawings and submit shop drawings for the same. Where the design of members or connections are not specifically noted, provide such in accordance with the latest AISC specifications and submit the design with the shop drawings for approval.

C. Comply with all applicable codes, ordinances, and regulations including those promulgated and enforced by OSHA. See GENERAL STRUCTURAL NOTE 5.B.

D. Steel shall be fabricated to achieve the elevations, slopes, and geometry shown on the Architectural and Structural Drawings. Structural steel shall provide a uniform surface for the attachment of metal deck.

E. All structural steel shapes, plates, bolts, etc. exposed to weather shall be galvanized or receive Tnemec 90-97 zinc-rich primer.

(1) Touch-up all field welding work of galvanized members w/ ZRC Cold Galvanizing or Tnemec 90-97 zinc-rich primer.

F. All bolted connections shall be "snug-tight" unless noted otherwise on structural details.

G. Beams with indicated reactions on the plans are designated as "performance engineered". Provide details and calculations stamped by a registered engineer in the state of Nebraska for these connections only. Use ASD- Reactions shown are allowable value.

H. See architectural code plans for full description and extent of ratings.

3. METAL ROOF DECK:

A. All metal roof deck work shall comply with SDI - Steel Deck Institute "Specifications and Commentary for Steel Roof Deck".

B. Metal Roof Deck Properties:

(1) Vulcraft "1.5B" or Approved Equal with the following minimum section properties:

Depth:	See Plans
Thickness:	See Plans
Finish:	Painted, U.N.O.
Yield Stress:	33 ksi

C. Metal roof deck shown on the drawings shall be used in 3 or more span condition.

D. Metal roof deck shall be attached as follows, unless noted otherwise on the drawings:

OPTION #1

- (1)
- (2) Where deck is parallel to steel, attach deck to steel with 5/8" diameter puddle welds @ 12" o.c., unless noted otherwise on plans
- (3) Fasten side laps of individual sheets together with #10-16 Teks screws or 1 1/2" line welds between supports as noted on plans.

OPTION #2

(1) Mechanical Fasteners may be used, provided the capacity meets or exceeds the diaphragm capacity of the welded option. The Contractor shall also submit the following information:

- a) Justification of mechanical fastener diaphragm capacity
- b) Plan showing fastener type layout for each building based on substrate thickness that is being attached to.
- c) Plan showing joist chord thickness.

E. All edges and openings in deck shall be supported. Unless noted or approved otherwise, provide support in accordance with the following:

Openings less than 8":

Add a 2'-0" (min.) wide x 3'-0" long piece of deck nested on top of deck. Screw flutes together with #10 screws @ 6" centers. Opening may be cut through the center of the deck.

Openings greater than 8" in either direction:

Support edges of opening with steel framing supported by the steel joists or beams as shown on 13/S3.3. The steel deck shall be welded to the framing with welds at 12" centers.

F. Up to 50 pounds may be supported from metal deck provided the attachment to the deck distributes the load to at least (3) deck flutes and there is ONLY (1) individual attachment per deck span.

** Mechanical equipment, piping, ductwork, etc., shall be supported from the structural steel/steel joist framing.

3. OPEN WEB JOISTS:

A. All steel joist work shall comply with SJI - Steel Joist Institute - "Standard Specifications for Open Web Steel Joists".

B. Steel Joists are designated on the drawings using Steel Joist Institute designations. Provide special joist designs as specifically noted on the plans or details.

C. Steel joists shall be designed for a minimum net uplift of 15 psf unless noted otherwise and without a 1/3 stress increase.

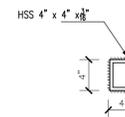
D. Joist Bridging:

(1) All bridging shall be continuous. Bridging may be terminated where necessary (e.g. for mechanical work) provided diagonal cross bridging is provided at each adjacent joist space. Bridging shall not be interrupted at two adjacent joist spaces.

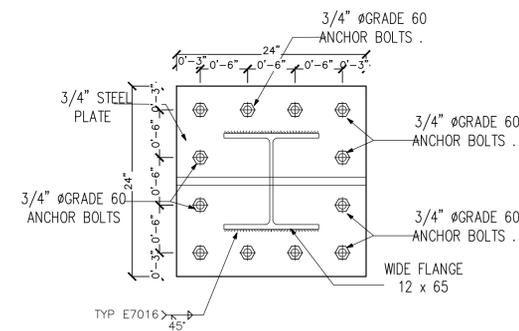
(2) Where diagonal cross bridging is used, provide horizontal bridging at first joist space adjacent to walls.

E. Do not place concentrated loads in excess of 100 lbs. between panel points of steel joists unless web members are installed in accordance with 3/S3.4. Joist reinforcing details assumes rod web members. If angle web members are provided the joist manufacturer shall provide an alternate detail of equivalent strength on the shop drawings.

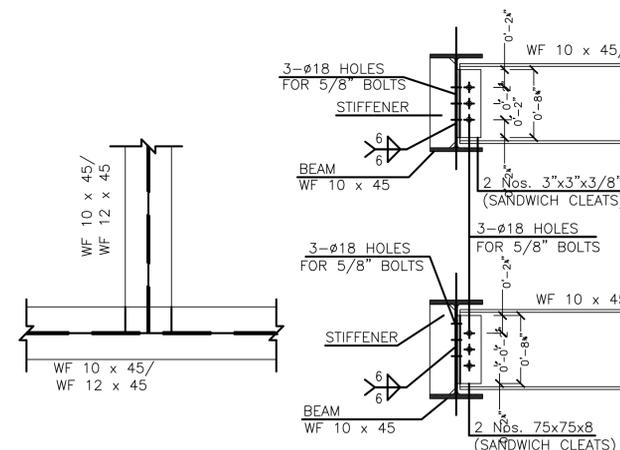
F. Joist locations shall be shown on the shop drawings. Any deviations in locations for those shown on the drawings shall be highlighted.



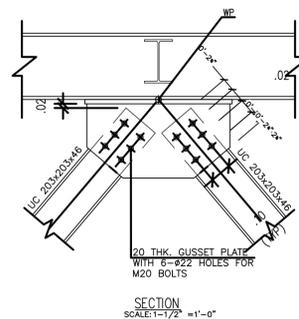
REINFORTS DETAIL
HSS 4" x 4" x 1/8" SCALE: 1 1/2" = 1'-0"



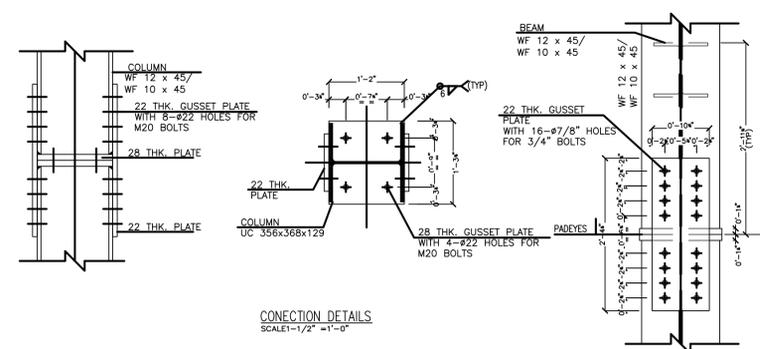
BASE & CAP PLATE DETAIL
BASE & CAP 24"x24" SCALE: 1 1/2" = 1'-0"



CONNECTION DETAILS
SCALE: 1 1/2" = 1'-0"



SECTION
SCALE: 1/2" = 1'-0"



CONNECTION DETAILS
SCALE: 1/2" = 1'-0"

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX NEW BASKETBALL COURT STRUCTURAL STEELWORK AND DETAILS

REVISIONS	DATE
ISSUE FOR REVIEW - 20%	MAY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 18, 2023 2
ISSUE FOR REVIEW - 80%	SEP 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN NEW BASKETBALL BUILDING STRUCTURAL STEELWORK AND DETAILS

IMPROVEMENTS TO THE COROZAL SPORT COMPLEX FACILITY

PR-ORP-000883
MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL
PROPOSED PLAN

DATE	APRIL 2024
DRWG. SHEET	S-11

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WELDED CONNECTIONS IN STEEL STRUCTURES

STANDARD:

ANSI/AISC 360-10: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS CHAPTER J. DESIGN OF CONNECTIONS.

MATERIALS:

- SECTIONS (BASE MATERIAL): A572 50KSI.
- FILLER MATERIAL (WELDS): E70XX SERIES ELECTRODES. FOR THE MATERIALS USED AND THE SMAW WELDING PROCEDURE (ELECTRIC ARC WITH COVERED ELECTRODE), THE CONDITIONS OF COMPATIBILITY BETWEEN MATERIALS REQUIRED BY ARTICLE J.2.6 ARE FULFILLED.

DEFINITIONS FOR STICK WELDS:

- EFFECTIVE THROAT: IS EQUAL TO THE SMALLEST DISTANCE MEASURED FROM THE ROOT TO THE THEORETICAL FLAT WELD FACE (J.2.2A).
- BEAD SIDE: IS THE SMALLER OF THE TWO SIDES LOCATED ON THE FUSION FACES OF THE LARGEST TRIANGLE THAT CAN BE INSCRIBED IN THE WELD SECTION.
- WELD ROOT: THE INTERSECTION OF THE FUSION FACES (AWS D1.1/D1.1 M:2002 ANNEX B).
- EFFECTIVE WELD BEAD LENGTH: IS EQUAL TO THE TOTAL LENGTH OF THE WELD WITH UNIFORM DIMENSIONS, INCLUDING RETURNS (ART. 2,D.2.1 OF AWS D1.1/D1.1 M:2002).

CONSTRUCTIVE PROVISIONS:

1. THE PRESCRIPTIONS CONSIDERED IN THIS PROJECT APPLY OR WELDED JOINTS WHERE:
 - THE STEELS OF THE PARTS TO BE JOINED HAVE A YIELD STRENGTH NOT GREATER THAN 100 KSI [690 MPA]. (ARTICLE 1.2 (1) ABS D1.1/D1.1 M:2002).
 - THE THICKNESS OF THE PARTS TO BE JOINED IS AT LEAST 1/8 IN [3MM] (ARTICLE 1.2 (2) AWS D1.1/D1.1 M:2002).
 - WELDED PARTS ARE NOT OF TUBULAR SECTION.
2. IN FULL OR PARTIAL PENETRATION WELDS OR BUTT WELDS IT IS FULFILLED THAT:
 - THE EFFECTIVE LENGTH OF FULL OR PARTIAL PENETRATION WELDS IS EQUAL TO THE DIMENSION OF THE JOINED PARTS PERPENDICULAR TO THE DIRECTION OF TENSILE OR COMPRESSIVE STRESSES. (ART. 2.3.1.1.1 OF AWS D1.1/D1.1 M:2002).
 - IN FULL PENETRATION WELDS, THE EFFECTIVE THROAT IS EQUAL TO THE SMALLEST THICKNESS OF THE JOINED PARTS (ART. 2.3.1.1 OF AWS D1.1/D1.1 M:2002).
 - IN PARTIAL PENETRATION WELDS, THE MINIMUM EFFECTIVE THROAT THICKNESS COMPLIES WITH THE VALUES IN THE FOLLOWING TABLE:

Material Thickness of Thinner Part Joined, in. (mm)	Minimum Effective Throat, ^[a] in. (mm)
To 1/4 (6) inclusive	1/8 (3)
Over 1/4 (6) to 1/2 (13)	3/16 (5)
Over 1/2 (13) to 3/4 (19)	1/4 (6)
Over 3/4 (19) to 1 1/2 (38)	5/16 (8)
Over 1 1/2 (38) to 2 1/4 (57)	3/8 (10)
Over 2 1/4 (57) to 6 (150)	1/2 (13)
Over 6 (150) 5/8 (16)	5/8 (16)

IN FILLET WELDS IT IS FULFILLED THAT:
 - THE MINIMUM SLURRY SIZE OF ONE FILLET WELD MEETS THE VALUES IN THE FOLLOWING TABLE:

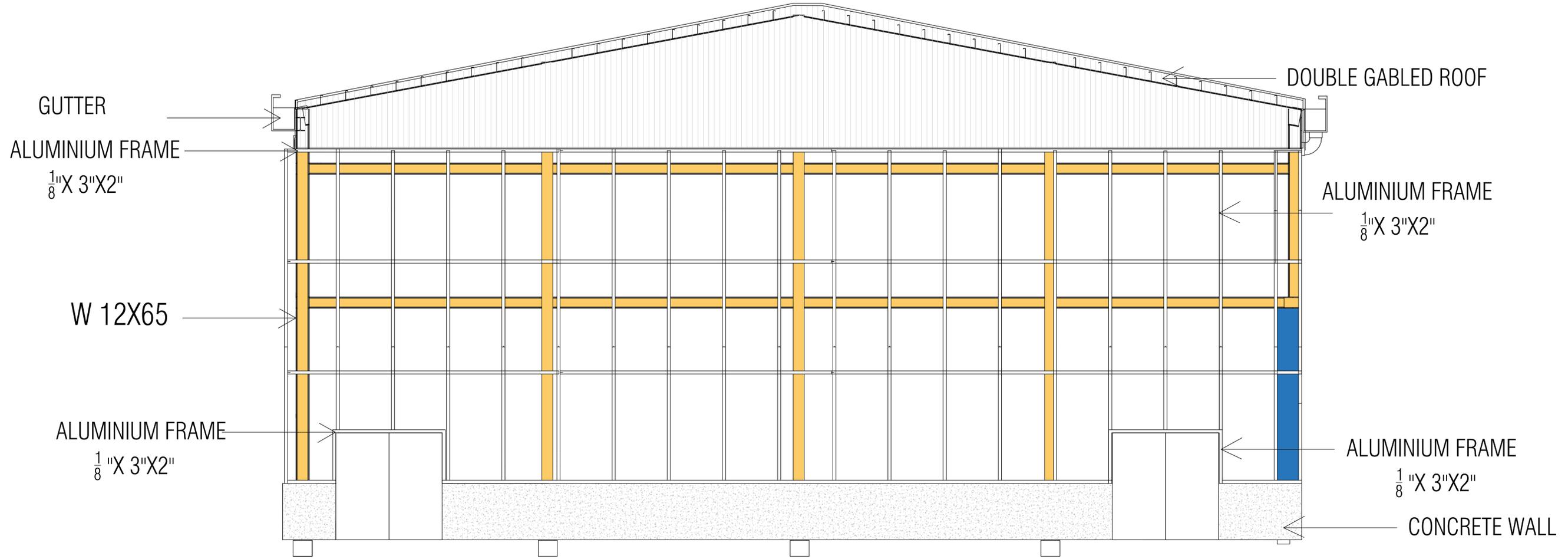
Material Thickness of Thinner Part Joined, in. (mm)	Minimum Size of Fillet Weld, ^[a] in. (mm)
To 1/4 (6) inclusive	1/8 (3)
Over 1/4 (6) to 1/2 (13)	3/16 (5)
Over 1/2 (13) to 3/4 (19)	1/4 (6)
Over 3/4 (19)	5/16 (8)

- THE MAXIMUM SLURRY SIZE OF A FILLET WELD ALONG THE EDGES OF WELDED PARTS COMPLIES WITH J2.2B, WHICH REQUIRES THAT:
 - MUST BE LESS THAN OR EQUAL TO THE THICKNESS OF THE PART IF THAT THICKNESS IS LESS THAN 6 MM,
 - MUST BE LESS THAN OR EQUAL TO THE PART THICKNESS MINUS 2 MM IF THE PART THICKNESS IS GREATER THAN OR EQUAL TO 6 MM.
- THE EFFECTIVE LENGTH OF A FILLET WELD MEETS THAT IT IS GREATER THAN OR EQUAL TO 4 TIMES THE SIZE OF ITS SIDE, OR THE SIDE IS NOT CONSIDERED TO BE GREATER THAN 25 Á OF THE EFFECTIVE LENGTH OF THE WELD. ADDITIONALLY, THE EFFECTIVE LENGTH OF A FILLET WELD SUBJECT TO ANY DESIGN STRESS IS NOT LESS THAN OR 40 MM (J2.2B).

- 4) THE EFFECTIVE BEAD LENGTH (LENGTH OVER WHICH THE BEAD HAS ITS FULL SIZE) IS INDICATED IN THE WELD DETAIL. TO ACHIEVE THIS LENGTH, IT MAY BE NECESSARY TO EXTEND THE BEAD AROUND THE CORNERS WITH THE SAME BEAD SIZE.
 - 5) FILLET WELDS OF 'T' JOINTS WITH ANGLES LESS THAN 30° ARE NOT CONSIDERED AS EFFECTIVE FOR OR TRANSMISSION OF APPLIED LOADS (ARTICLE 2.3.3.4 AWS D1.1/D1.1M:2002).
 - 6) FABRICATION AND ERECTION PROCESSES SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 5 OF AWS D1.1/D1.1M:2002 AND CHAPTER M OF ANSI/ASC 360-10. WITH REGARD TO THE PREPARATION OF THE METOL BOSE, IT IS REQUIRED THAT THE SURFACES ON WHICH THE FILLER METAL IS TO BE DEPOSITED BE SMOOTH, UNIFORM, AND FREE OF TEARS, CRACKS, AND OTHER DISCONTINUITIES THAT WOULD AFFECT THE QUALITY OR STRENGTH OF THE WELD. SURFACES TO BE WELDED AND SURFACES ADJACENT TO A WELD SHALL ALSO BE FREE OF FLAKES, SCALE, LOOSE OR ADHERING RUST, SCALE, RUST, MOISTURE, OIL, GREASE, AND OTHER FOREIGN MATERIALS THAT WOULD PREVENT A PROPER WELD OR PRODUCE HARMFUL EMISSIONS.
- CHECKS:**
- THE DESIGN STRENGTH OF WELD BEADS IS DETERMINED IN ACCORDANCE WITH ARTICLE J.2.4 ANSI/AISC 360-10.
 - THE METHOD USED FOR WELD BEAD STRENGTH TESTING IS ONE IN WHICH THE CALCULATED STRESSES IN THE BEADS (SECTOR RESULTANT) ARE CONSIDERED AS SHEAR STRESSES APPLIED TO THE EFFECTIVE AREA (ARTICLE J.2.4 ANSI/AISC 360-10).
 - THE EFFECTIVE AREA OF A WELD BEAD IS EQUAL TO THE PRODUCT OF THE EFFECTIVE LENGTH OF THE BEAD BY THE EFFECTIVE THROAT THICKNESS (ARTICLE J2.20 ANSI/AISC 360-10).
 - STRESSES FROM SEISMIC COMBINATIONS HAVE BEEN INCREASED BY A FACTOR OF EQUAL TO 1.375.

REVISIONS	DATE
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REVISION	DATE 7

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ALUMINIUM FRAME ELEVATION DETAIL

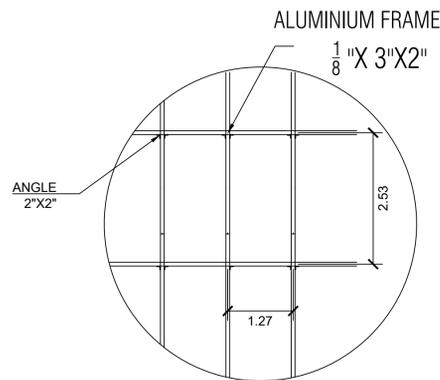
Scale: $\frac{3}{8}'' = 1'-0''$

1. GENERAL:

- A. All cold-formed metal framing work shall comply with the 2009 International Building Code and AISI American Iron and Steel Institute "Cold-Formed Steel Design Manual".
- B. Structural cold-formed metal framing is all exterior walls, canopies, and soffits. See Specifications Section 05400 for the balance of information.
- C. Structural cold formed metal framing shall be constructed to achieve the geometry shown on the Architectural or Structural drawings.
- D. Cold formed light gage framing is a delegated design submittal. See specifications for additional requirements. Minimum spacing of framing shall be 16" o.c. Minimum gage shall be 20. Stud and Track properties are as follows:
SEE PLANS STUDS: 1 5/8" [MIN.]
SEE PLANS TRACKS: 1 1/4" [MIN.]
- E. Connection material noted on the plans shall be by "The Steel Network, Inc." of Raleigh, North Carolina (www.steelnetwork.com / 1-888-474-4876) or Approved equal.

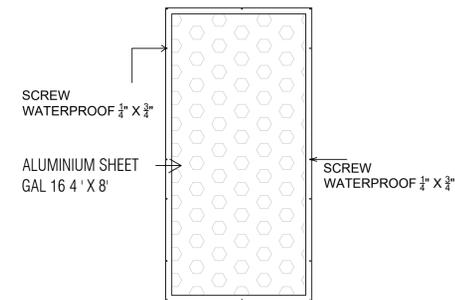
2. INSTALLATION:

- A. Metal stud walls may be prefabricated. Prefabricated frames shall be square, with components attached in a manner to prevent racking during fabrication, transportation, and lifting. Provisions to lift the panel shall be included in the frame's design and construction.
- B. Field cutting of steel framing members shall be by saw or shear. Torch cutting will not be permitted.
- C. Where OSB or Gypsum sheathing is not attached to wall, provided lateral bracing of both flanges using straps.
- D. At track butt joints, abutting pieces of track shall be securely anchored to a common stud. Where splicing of wall track is necessary between stud spacings, a piece of stud shall be placed in the adjoining track sections and fastened to the track flanges at both sides of the wall with (3)-#12-14 TEK screws on each side of the joint.
- E. Studs shall be installed seated squarely (within 1/16") against the web of the top and bottom track. Studs shall be plumbed, aligned and secured to the continuous runner tracks with (2)-#12-14 TEK screws (Both sides).
- F. Openings: Provide one bearing stud and 2 jamb studs at each exterior framed opening U.N.O.
- G. Connect multiple studs and track together with #12-14 TEK screws @ 12" unless noted otherwise on the drawings.
- H. Unless Noted Otherwise, Attach tracks as follows:
To Concrete: (1)-Hilti 0.157 X-U Universal knurled shank powder actuated fasteners at 8" o.c. [1 1/4" min. embedment].
To Steel: (2)-Hilti 0.157 X-U Universal knurled shank powder actuated fasteners at 16" o.c.



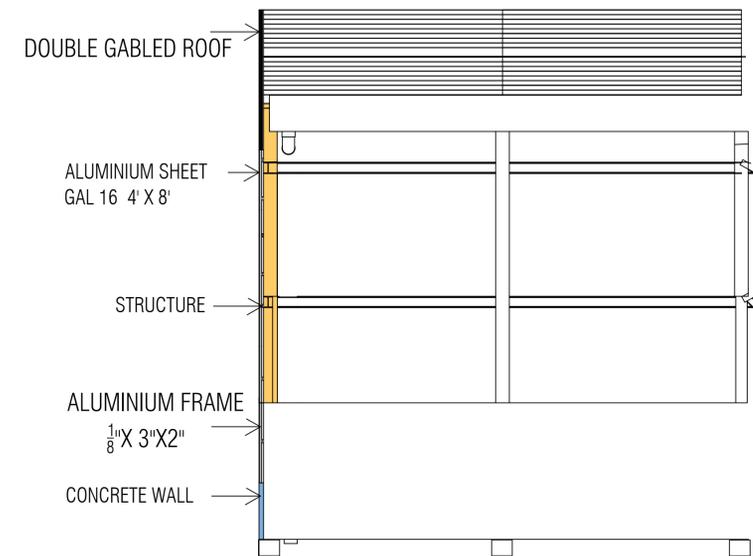
ALUMINIUM FRAME DETAIL

Scale: N/S



MICROPERFORATED DETAIL

Scale: N/S

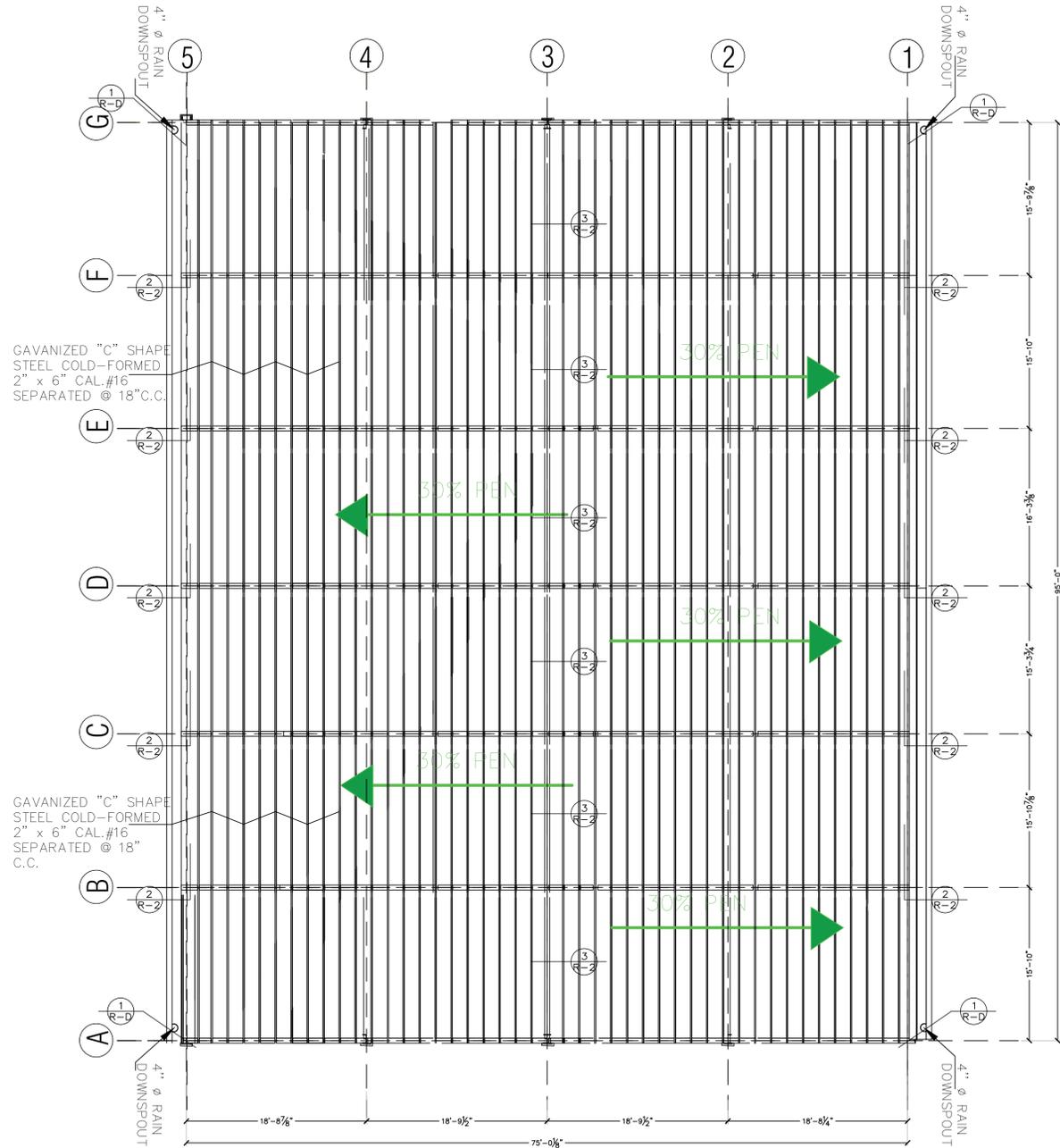


MICROPERFORATED DETAIL

Scale: N/S

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REVISION	DATE 7

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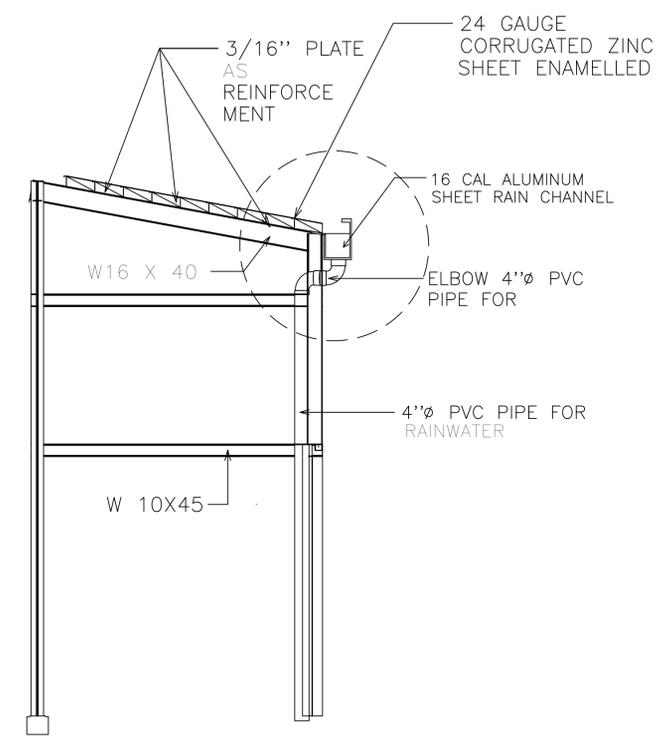
ROOF ESTRUCTURAL AND DRAINAGE PLAN

Scale: 1/4" = 1'-0"

ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL BE SUBMITTED TO E.O.R AND APPROVED BY E.O.R & ARCHITECT PREVIOUS CONSTRUCTION PHASE AND SHALL BE COORDINATED BY THE GENERAL CONTRACTOR ACCORDINGLY. GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND DIMENSIONS OF EQUIPMENTS BY SPECIFIC VENDOR PRIOR TO INSTALLATION. GENERAL CONTRACTOR IS RESPONSIBLE FOR CHECKING ADEQUACY OF EQUIPMENT WEIGHTS WITH STATED LOADS USED FOR STRUCTURAL DESIGN, IF LOADS EXCEED THOSE, G.C WILL BE RESPONSIBLE FOR UPDATE THE DESIGN WITH E.O.R ACCORDINGLY. PERMITTING TASKS AND TIMELINE COMPLIANCE ASSOCIATED WITH NEW DESIGN WILL BE GENERAL CONTRACTOR RESPONSIBILITY AS WELL.

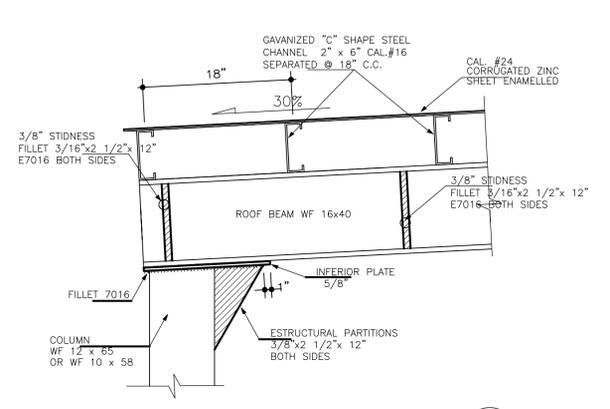
NOTES:
 -ALL STEEL TO BE HOT DIPPED GALVANIZED
 -ALL WOOD TO BE PRESSURE TREATED -ALL FASTENER AND BRACKETS TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL
 -ALL FIELD WELDING TO BE PROTECTED BY COLD GALVANIZING

NOTES:
 -CONTRACTOR TO COORDINATE GROUT FILLED CELL LOCATIONS AND CHANGE OF BEAM TO COORDINATE GROUT FILLED CELL LOCATIONS AND CHANGE OF BEAM TO COORDINATE GROUT FGE OF BEAM AND CHANGE OF BEAM AND CHANGE OF BEAM BEAM BEAM HEIGHTS.
 -ALL ANCHORS SHALL BE EMBEDDED INTO POURED CONCRETE OR GROUT FILLED CELL.
 -GC TO VERIFY ALL DOORS AND WINDOW OPENINGS DIMENSIONS PRIOR TO THE SLAB TO VERIFY ALL DOORS AND WINDOW OPENINGS DIMENSIONS W/ MANUF. AND METRO DADE PRODUCT CONTROL REQUIREMENTS.
 -WELD #4 X 1'-6" DWL. EA CONCRETE SILL @ STL COL. DO NOT PAINT COL. @ SILL

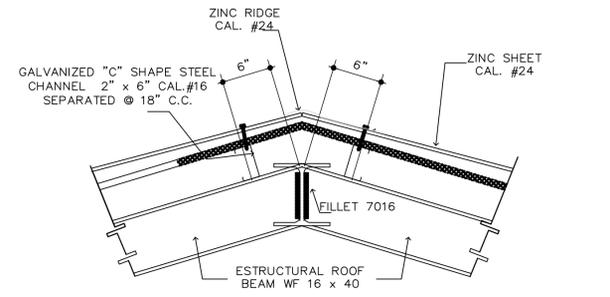


ROOF DETAIL 1
 SCALE: 1" = 1'-0" R-D

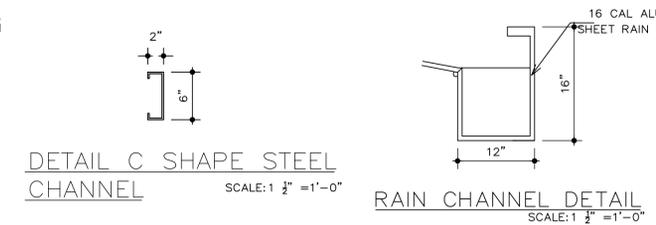
- NOTES:
- THE SLAB THICKNESS WILL BE 15 CM.
 - THE FOUNDATION CONCRETE STRENGTH WILL BE $F'c = 210 \text{ KG/CM}^2$ OR 3,000 PSI.
 - TEMPERATURE REINFORCEMENT STEEL WILL BE ELECTRO-WELDED MESH 15X15X4.5 MM, OVERLAPPED BY 15 CM, OR THE BOTTOM REINFORCEMENT STEEL WILL BE #3/8 FOR EACH VALLEY OF THE SHEET.
 - THE CONCRETE SHOULD BE VIBRATED AND CURED USING A SIKA-TYPE CURING COMPOUND.
 - ALL CONCRETE WALLS WILL HAVE A STRENGTH OF $F'c = 280 \text{ KG/CM}^2$ OR 4,000 PSI.
 - IF THE WALLS FACE NATURAL SOIL, ASPHALT WATERPROOFING WILL BE APPLIED.
 - COLD JOINTS SHOULD HAVE A MINIMUM 40 CM WIDE WATERSTOPPER.
 - ALL STEEL USED WILL COMPLY WITH THE CURRENT ASCI AND AISI CODES.
 - HOT-ROLLED STEEL WILL BE A570-50 FY AND A500-46 (SQUARE TUBES).
 - COLD-FORMED STEEL WILL HAVE A MINIMUM YIELD STRENGTH OF 380 MPA.



ROOF CONNECTION DETAIL 2
 SCALE: 1 1/2" = 1'-0" R-D

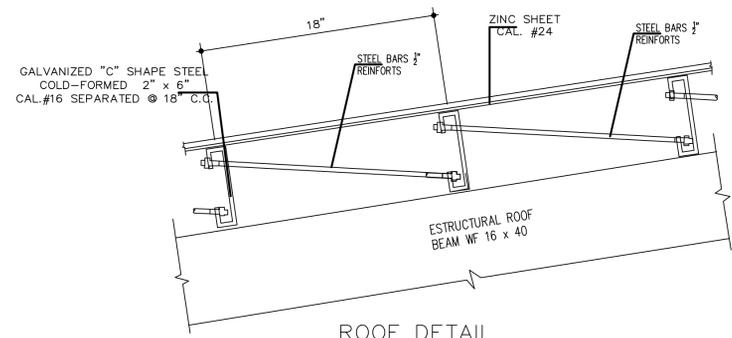


ROOF DETAIL 3
 SCALE: 1 1/2" = 1'-0" R-D

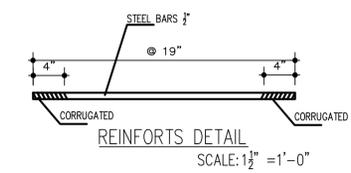


DETAIL C SHAPE STEEL CHANNEL
 SCALE: 1 1/2" = 1'-0"

RAIN CHANNEL DETAIL
 SCALE: 1 1/2" = 1'-0"



ROOF DETAIL 4
 SCALE: 1 1/2" = 1'-0"



REINFORCE DETAIL
 SCALE: 1 1/2" = 1'-0"

**IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
 NEW BASKETBALL COURT ROOF DRAINAGE PLAN AND DETAILS**

APPLIED ENGINEERING GROUP
 MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
 10 St. Montecarlo Avenue #846 Rio Piedras, PR 00924
 P.O. Box 361298 San Juan, Puerto Rico 00936-1298
 Office: 787-731-5877 Fax: 787-771-5089

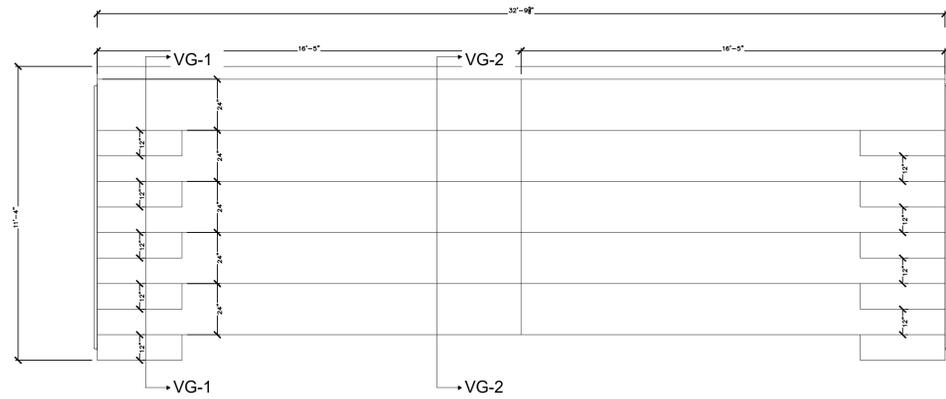
REVISIONS	DATE	ISSUE FOR REVIEW	DATE
1	MAY 12 2023	ISSUE FOR REVIEW - 30%	1
2	AUG 16 2023	ISSUE FOR REVIEW - 60%	2
3	SEP 19 2023	ISSUE FOR REVIEW - 80%	3
4	OCT 19 2023	ISSUE FOR REVIEW - 90%	4
5	DATE 5	REVISION	5
6	DATE 6	REVISION	6
7	DATE 7	REVISION	7

**PROPOSED PLAN
 NEW BASKETBALL BUILDING
 ROOF DRAINAGE PLAN AND DETAILS**

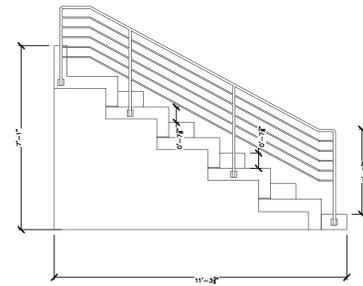
**IMPROVEMENTS TO THE
 COROZAL SPORT COMPLEX
 FACILITY**

ARCHITECTURAL
 PROPOSED PLAN

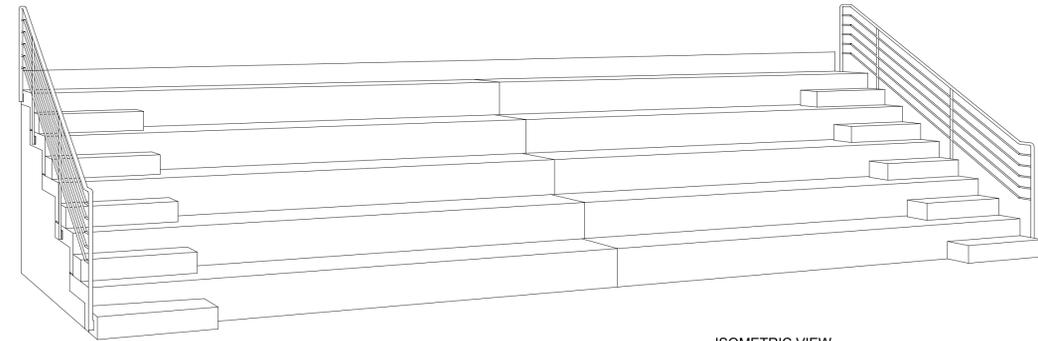
DATE
 ABRIL 2024
 DWG. SHEET
S-14



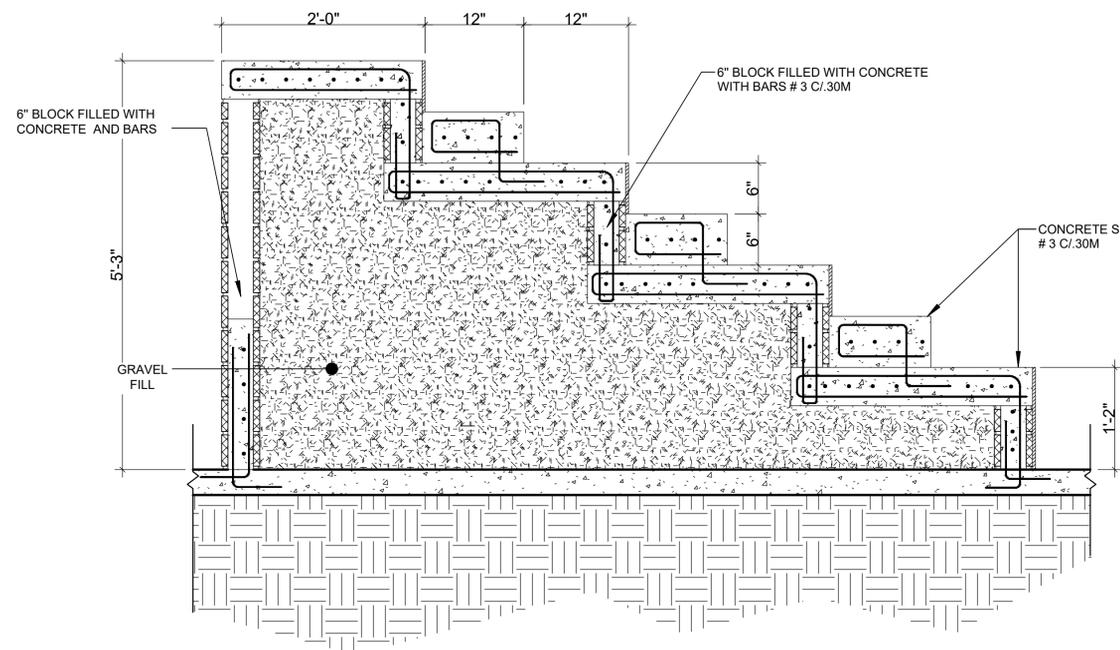
BLEACHERS PLAN VIEW
Scale: 1"=1'-0"



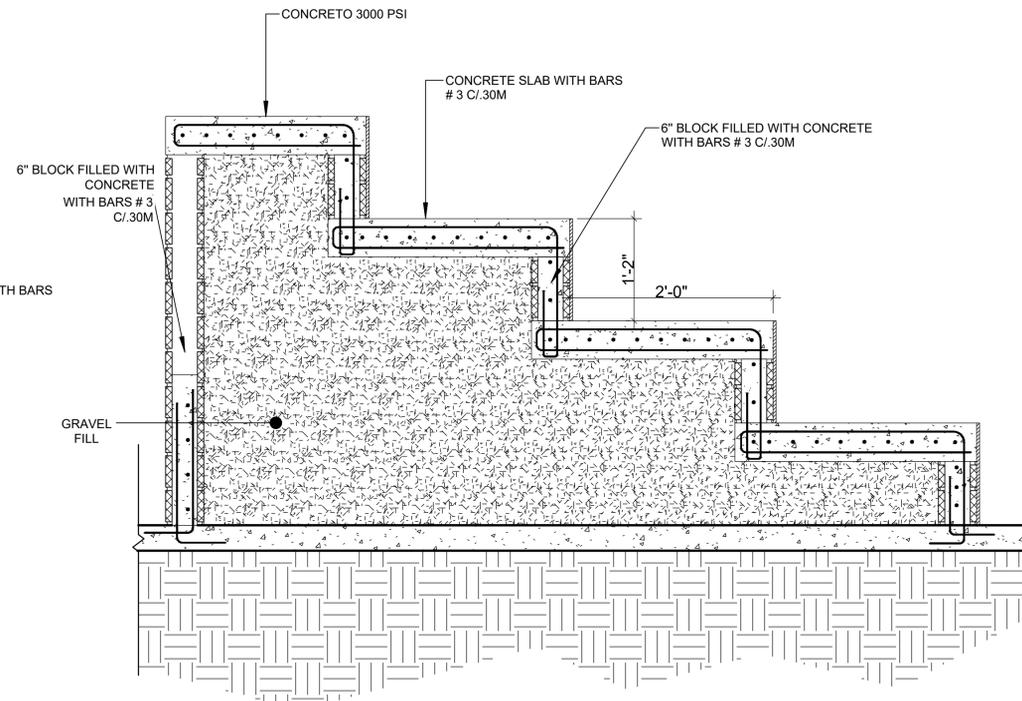
BLEACHERS LEFT SIDE ELEVATION
Scale: 1/4"



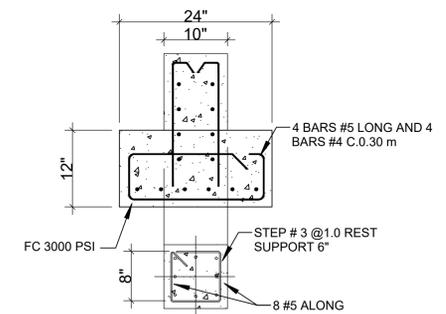
BLEACHERS ISOMETRIC VIEW
Scale: N/S



BLEACHERS VG1
Scale: 3/4"=1'-0"



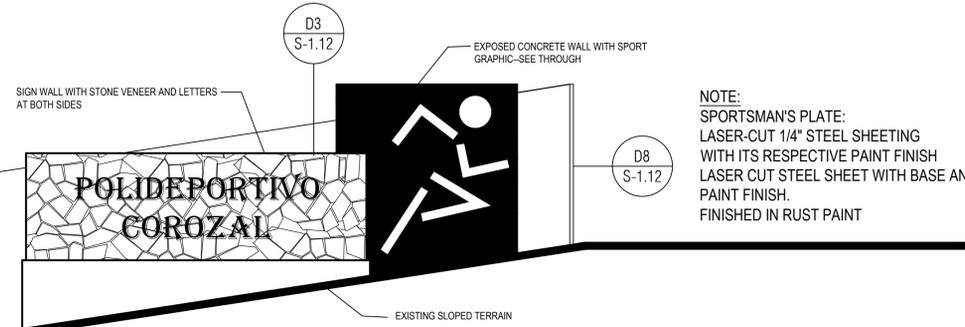
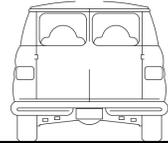
BLEACHERS VG2
Scale: 3/4"=1'-0"



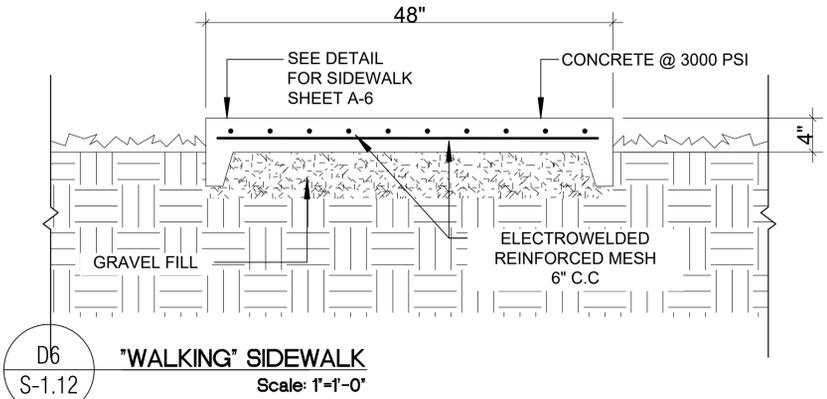
**BLEACHERS FOUNDATION
VG1 AND VG2**
Scale: 1 1/2"=1'-0"

REVISIONS	DATE
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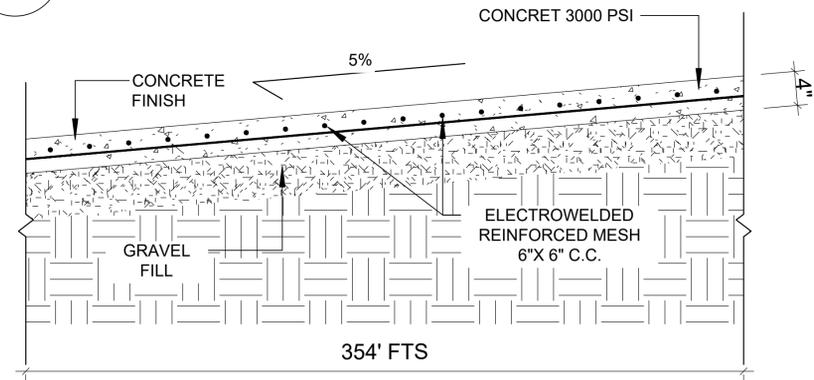
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NOTE:
SPORTSMAN'S PLATE:
LASER-CUT 1/4" STEEL SHEETING
WITH ITS RESPECTIVE PAINT FINISH
LASER CUT STEEL SHEET WITH BASE AND FINAL
PAINT FINISH.
FINISHED IN RUST PAINT

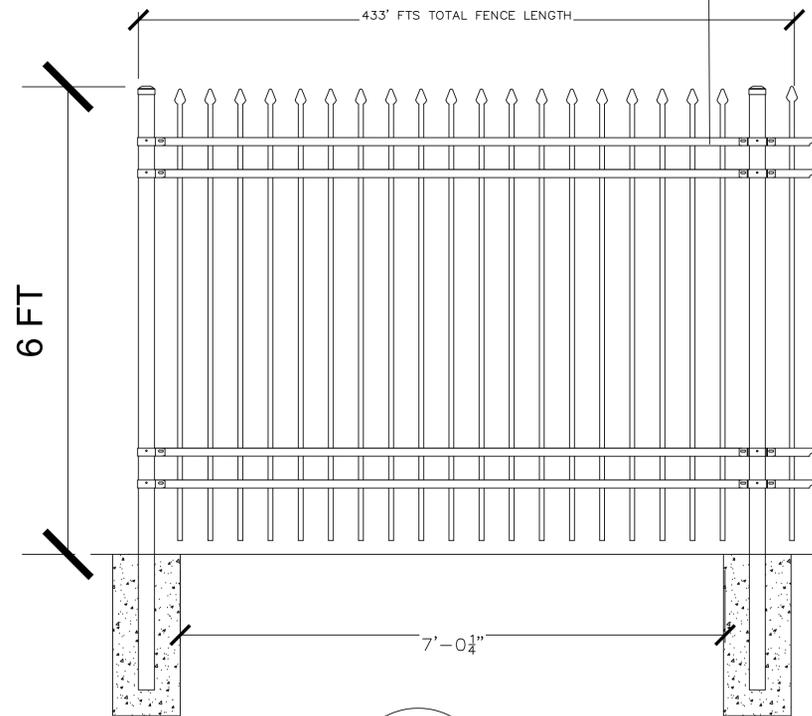


D6 "WALKING" SIDEWALK
Scale: 1"=1'-0"



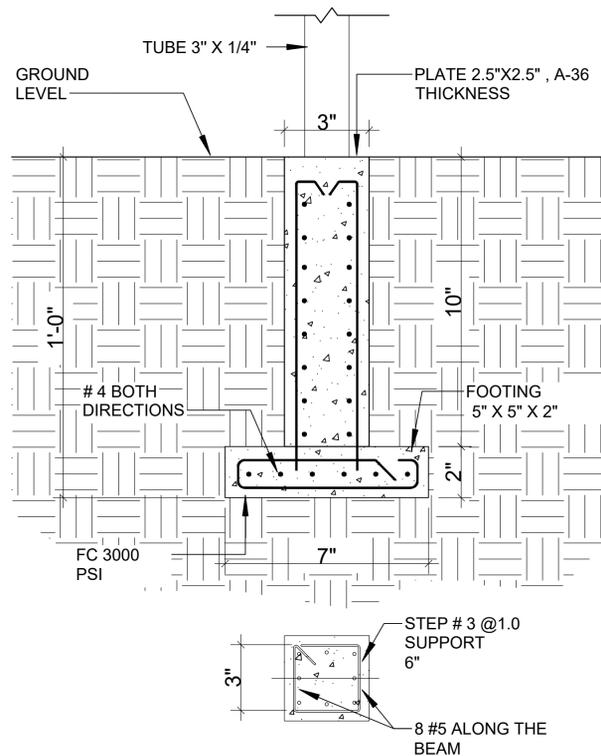
D7 WALKWAY 5%
Scale: 1 1/2"=1'-0"

PAINT COLOR: BLACK
ACRYLIC EXTERIOR PAINT

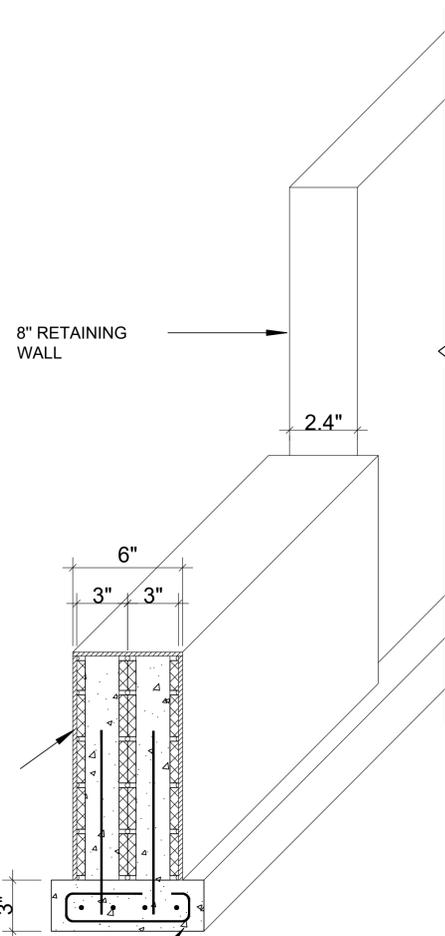


D8 ALUMINUM FENCE
Scale: 1"=1'-0"

ENTRANCE WALL FOR SIGN
Scale: 3/4"=1'-0"



D4 ALUMINUM FENCE FOUNDATION
Scale: 1 1/2"=1'-0"



D3 ENTRANCE SIGN WALL FOUNDATION
Scale: 1 1/2"=1'-0"

3000 PSI FOUNDATION
#5 BARS ALONG AND
BARS W/30M

IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
PARK MAIN ENTRANCE CONSTRUCTION DETAILS

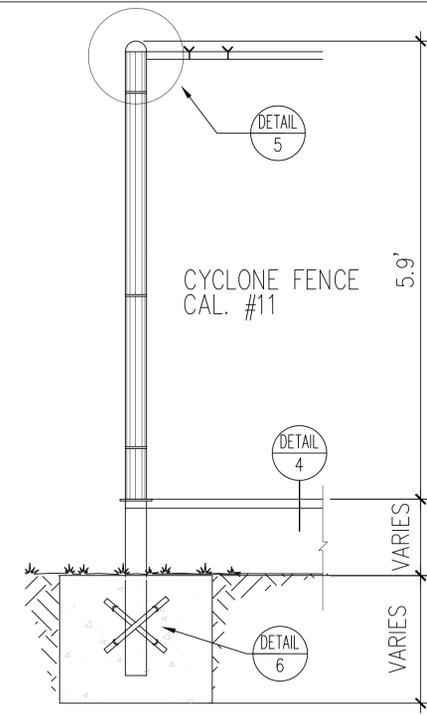
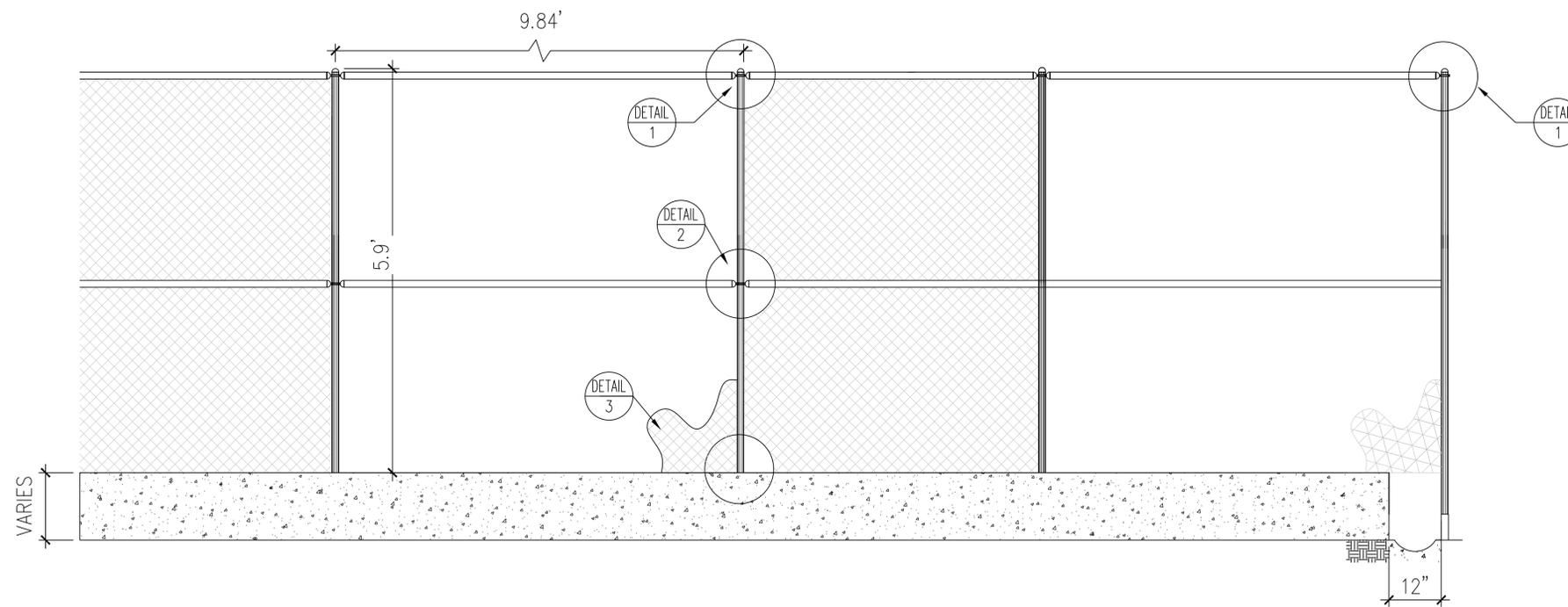
REVISIONS	DATE
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ISSUE FOR REVIEW - 90%	SEP 19, 2023 3
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REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

PROPOSED PLAN
PARK MAIN ENTRANCE
CONSTRUCTION DETAILS

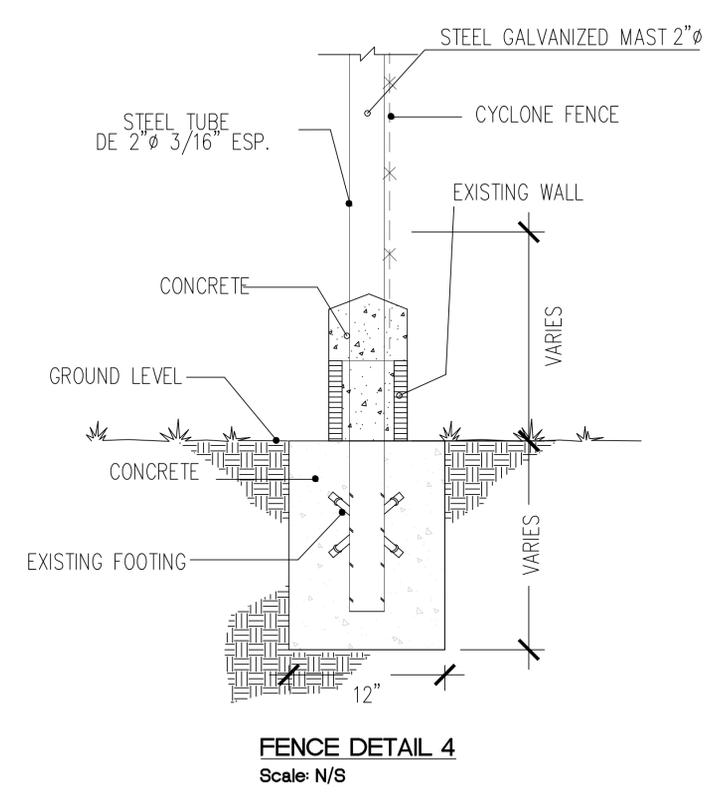
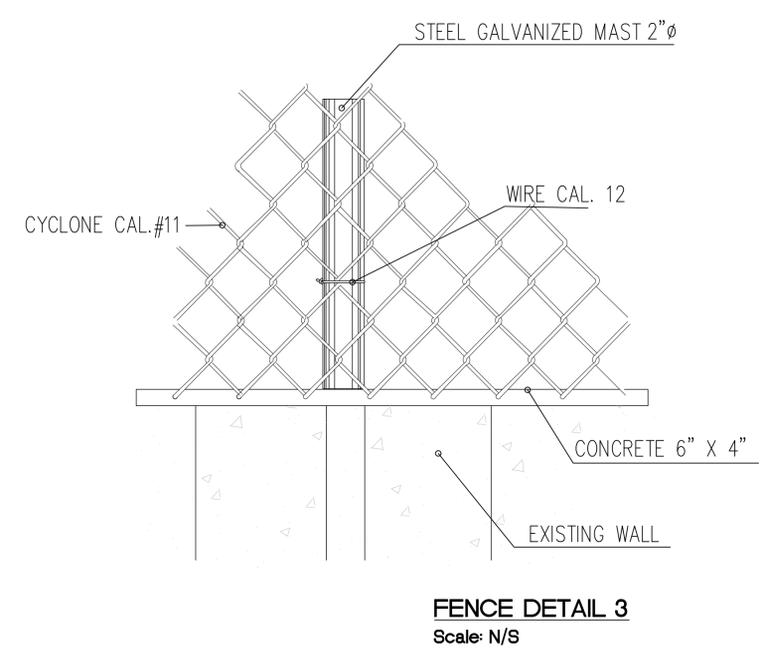
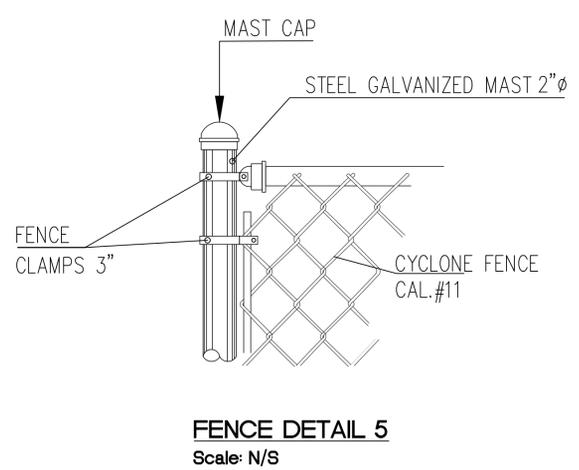
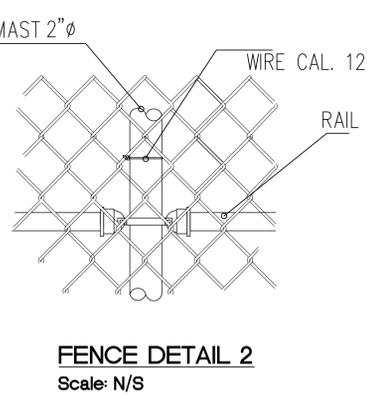
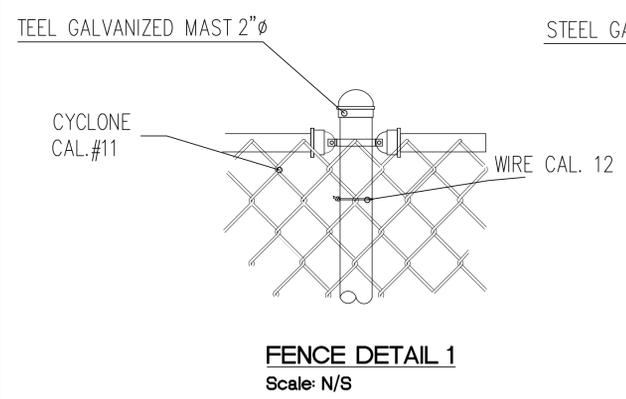
IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY
MUNICIPIO DE COROZAL, PUERTO RICO 00763

ARCHITECTURAL
PROPOSED PLAN

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D2
S-1.13



IMPROVEMENTS PROJECT - COROZAL SPORT COMPLEX
GENERAL DETAILS 1

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PROPOSED PLAN
GENERAL DETAILS 1

IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY

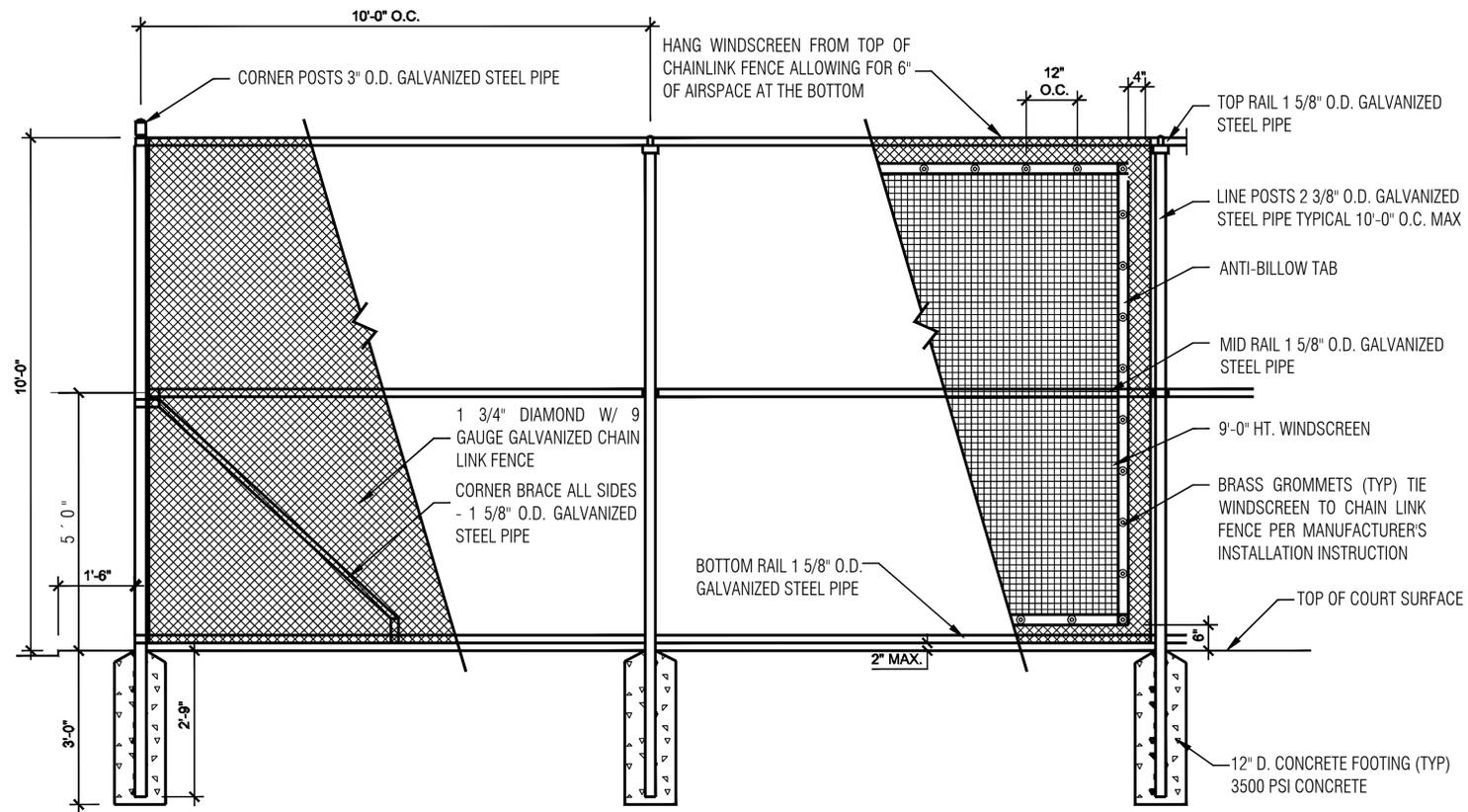
ARCHITECTURAL
PROPOSED PLAN

PROJECT NAME
MUNICIPIO DE COROZAL, PUERTO RICO 00783

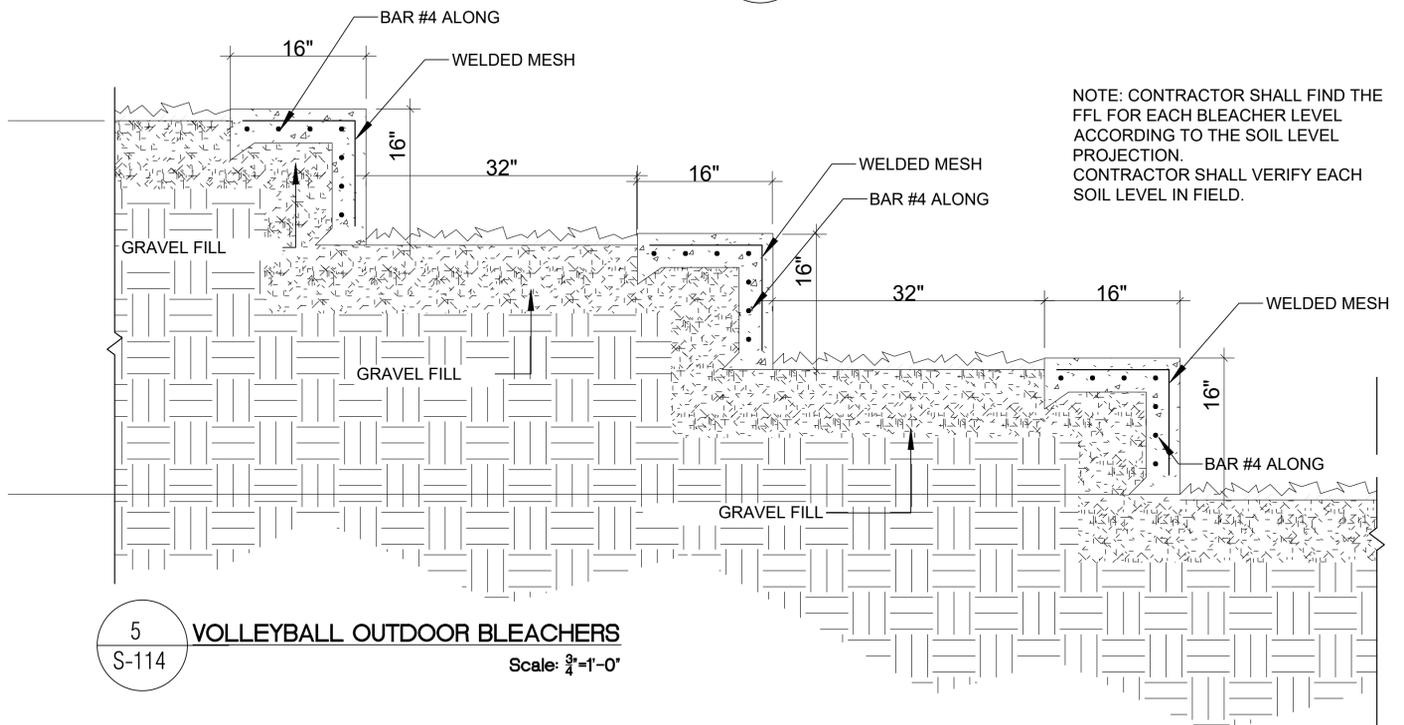
PHASE

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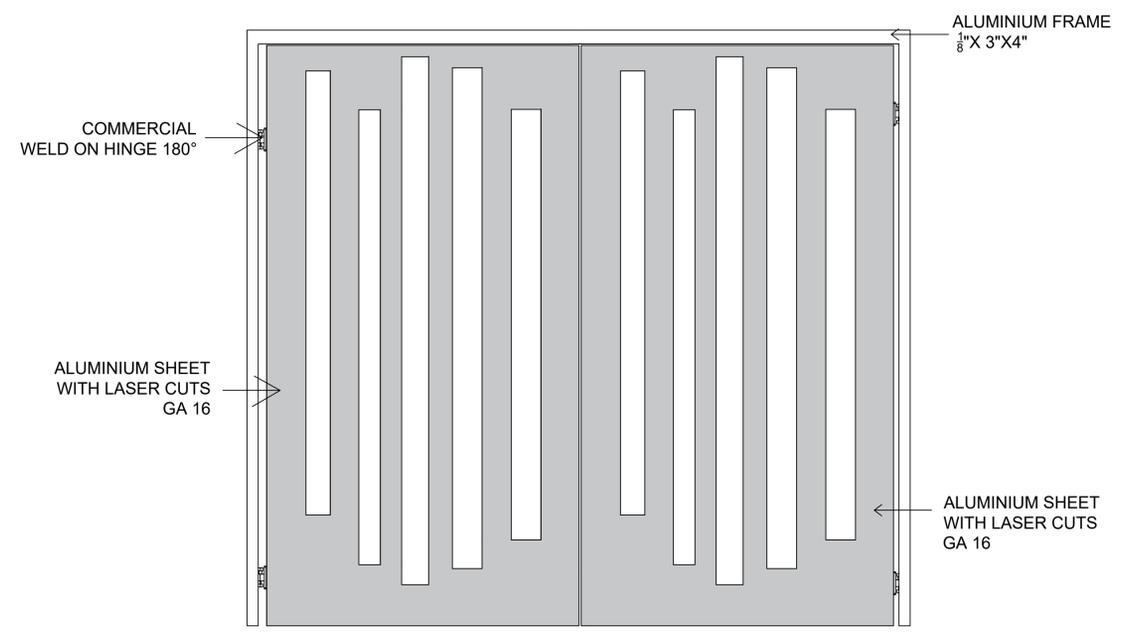
NOTE:
ALL WIRE FABRIC AND FENCE HARDWARE SHALL BE GALVANIZED.
FABRIC SHALL BE INSTALLED ON THE OUTSIDE.



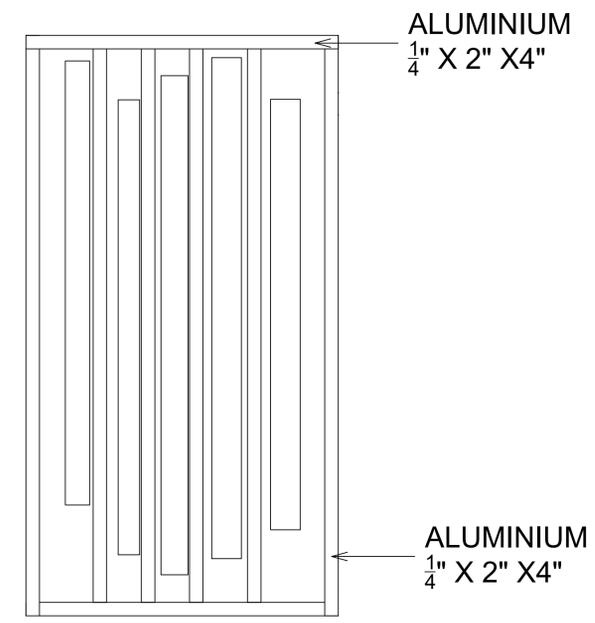
D1 TENNIS COURT FENCE ELEVATION
S-1.14 Scale: 1"=1'-0"



5 VOLLEYBALL OUTDOOR BLEACHERS
S-114 Scale: 3/4"=1'-0"



BASKETBALL COURT DOOR DETAIL
Scale: 1"=1'-0"

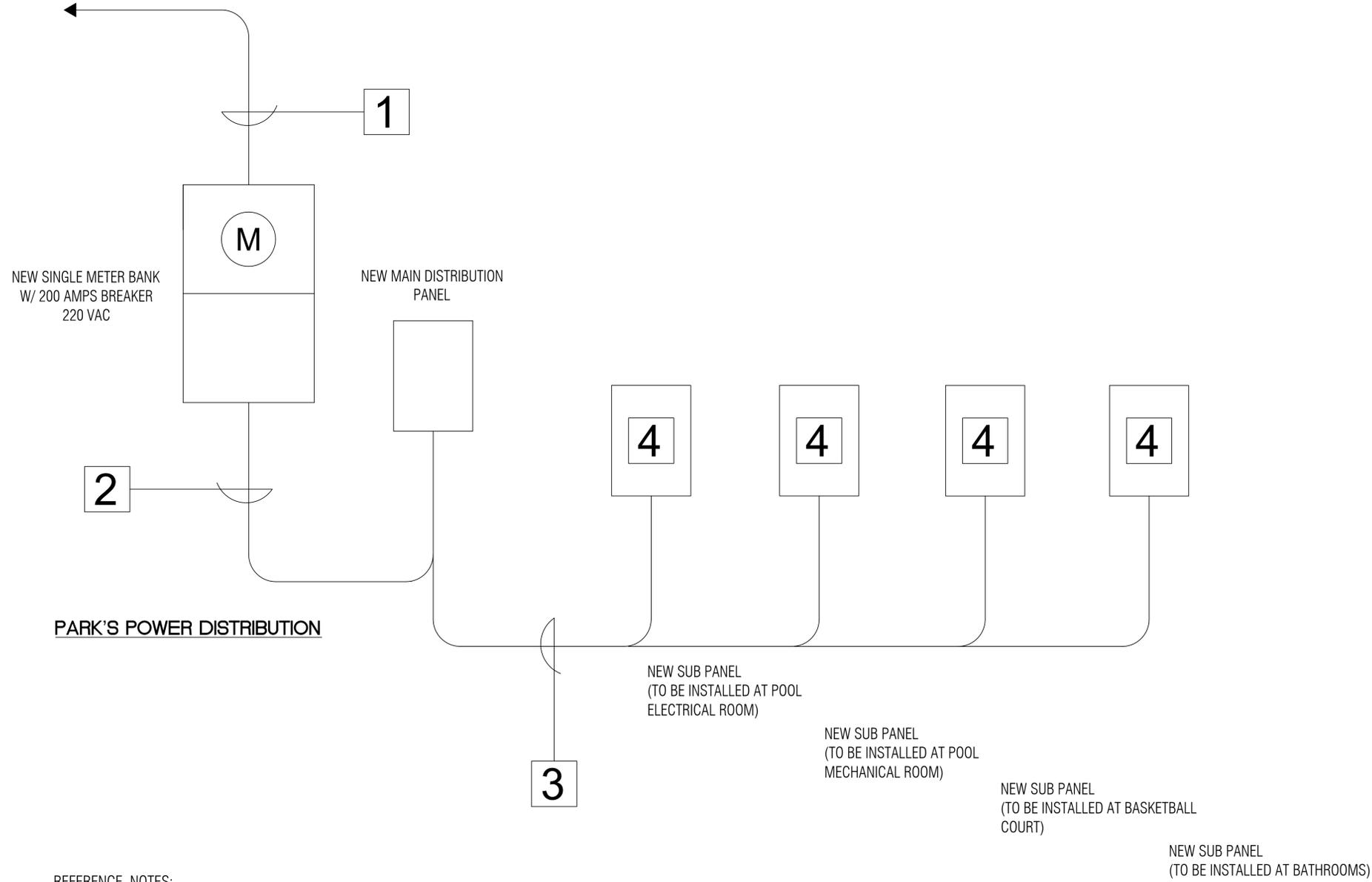


BASKETBALL COURT SINGLE DOOR DETAIL
Scale: 1"=1'-0"

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IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX FACILITIES
PROPOSED ELECTRICAL AND LIGHTING ONELINE-DIAGRAM

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REFERENCE NOTES:

- 1** EXISTING AERIAL ELECTRICAL LINE TO REMAIN.
- 2** EXISTING FEEDER TO REMAIN.
- 3** NEW UNDERGROUND FEEDER 2#8 THHN AND 1#8 GREEN THHN CONDUCTORS IN 1-1/2" PVC SCH-40 CONDUIT.
- 4** NEW 120/240 VAC, 1PH, 100A, 6-SPACE/12-CIRCUIT MAIN LUG CIRCUIT BREAKER PANEL, NEMA 3R TO BE INSTALLED AT LOCATION, TO BE COORDINATED

REVISIONS	DATE
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PROPOSED ELECTRICAL AND POWER SITE PLAN

IMPROVEMENTS TO THE COROZAL SPORT COMPLEX FACILITY
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

ELECTRICAL NEW COND.

**IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX FACILITIES
PROPOSED ELECTRICAL AND LIGHTING SHEDULES**

DESIGNATION SUB PANEL	PANEL BOARD, 100 AMP, 120/240V VOLTS 1PHASE, M.L.O., 6-SPACE 12 CIRCUITS WITH BOLT-ON BREAKERS, FLUSH-MOUNTED, AT 54" IN. BOTTOM A.F.F.								
REMARKS	CONDUIT		BREAKER	CKT NO.		BREAKER	CONDUIT		REMARKS
	SIZE	TYPE					SIZE	TYPE	
FRONT LIGHTS	3/4"	PVC	20A/1P	1	2	20A/1P	3/4"	PVC	BACK AND OUTSIDE LIGHTS
RECEPTACLES FRONT AREA	3/4"	PVC	20A/1P	3	4	20A/1P	3/4"	PVC	RECEPTACLES CENTRAL AREA
RECEPTACLE BACK AREA	3/4"	PVC	20A/1P	5	6	20A/1P	3/4"	PVC	SPACE
SPACE									SPACE

ABBREVIATIONS:

- AFF — ABOVE FINISHED FLOOR
- AFG — ABOVE FINISHED GRADE
- PH — PHOTOCELL CONTROL
- GFI — GROUND-FAULT INTERRUPTION
- LPP — LIGHTING AND POWER PANEL
- J — JUNCTION BOX
- NT.S. — NOT TO SCALE

- NOTES:
 -FOR CIRCUITS 19 YO 30 LEAVE EMPTY SPACES WITH PROVISIONS.
 - PROVIDE LOCK-ON DEVICE FOR CIRCUIT 13.
 - CIRCUITS WIRING TO BE: LIVE, NEUTRAL, AND GROUND WIRES, #12THHN, OR AS SHOWN.

LIGHTING FIXTURE SCHEDULE

FIXT NO.	MANUFACTURER	CATALOG NO.	DESCRIPTION	REMARKS
L1	NICOR LIGHTING	LSC-10-4S-UNV-40	4.FT.-LED STRIP WITH COVER	SURFACE MOUNTED, CEILING

DESIGNATION MPB	PANEL BOARD, 225 AMP, 120/240V VOLTS 1PHASE, M.L.O., 40 CIRCUITS (EXISTING AT ELECTRICAL ROOM)								
REMARKS	CONDUIT		BREAKER	CKT NO.		BREAKER	CONDUIT		REMARKS
	SIZE	TYPE					SIZE	TYPE	
IN USE			30A/1P	1	2	30A/1P			IN USE
IN USE			30A/1P	3	4	30A/1P			IN USE
IN USE			30A/1P	5	6	30A/1P			IN USE
IN USE			30A/1P	7	8	30A/1P			IN USE
IN USE			30A/1P	9	10	30A/1P			IN USE
IN USE			30A/1P	11	12	30A/1P			IN USE
IN USE			30A/1P	13	14	30A/1P			IN USE
IN USE			30A/2P	15	16	50A/1P			IN USE
IN USE				17	18	50A/1P			IN USE
IN USE			20A/1P	19	20	20A/1P			IN USE
IN USE			20A/2P	21	22				
IN USE				23	24	40A/2P			IN USE
NEW (PLAZA STAGE SUB PANEL)	2"	PVC	40A/2P	25	26				
SPACE				27	28				
SPACE				29	30				
SPACE				31	32	40A/2P			IN USE
SPACE				33	34				
SPACE				35	36				
SPACE				37	38	20A/1P			IN USE
SPACE				39	40				

- NOTES:
 -THIS IS A NEW PANEL BOARD FROM WHICH 4 NEW PANEL BOARD WILL BE CONNECTED OTHER AND A NEW CIRCUIT BREAKER AS SPECIFIED.
 - CIRCUITS WIRING TO BE: LIVE, NEUTRAL, AND GROUND WIRES, #12THHN, OR AS SHOWN.

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIAL AND LABOR TO COMPLETE THE WORK AS INDICATED ON PLANS AND SHALL OBTAIN ALL THE REQUIRED PERMITS AND INSURANCE AS REQUIRED FOR THE JOB TO BE PERFORMED. CONTRACTOR SHALL VISIT PROJECT SITE BEFORE BIDDING.
- CONDUITS SHALL BE 3/4" DIAMETER E.M.T. CONDUIT MINIMUM UNLESS OTHERWISE NOTED. ALL UNDERGROUND CONDUITS TO BE PVC SCHEDULE 40, CONCRETE ENCASED. GREEN GROUND CONDUCTORS TO BE PROVIDED ON ALL PVC CONDUITS, MINIMUM SIZE #12 THHN. ALL EXPOSED CONDUITS TO BE RIGID GALVANIZED STEEL. ALL CONDUITS INSIDE HUNG CEILINGS TO BE EMT CONDUIT. NO PVC CONDUIT TO BE USED INSIDE HUNG CEILINGS OR DRY WALL PARTITIONS. ENT CONDUITS NOT ALLOWED IN THIS PROJECT.
- CONDUCTORS SHALL BE THHN-600 VOLTS MINIMUM #12 COPPER UNLESS OTHERWISE INDICATED. ALL CONDUCTORS #12 AND ABOVE SIZES TO BE STRANDED COPPER THHN/THWN INSULATION.
- PANEL BOARDS SHALL BE OF THE DEAD FRONT TYPE, VOLTAGE, MAIN LUGS AND PHASES INDICATED ON PLANS AND SHALL BE EQUIPPED WITH BOLTED CIRCUIT BREAKERS FOR EACH BRANCH CIRCUIT AS SHOWN ON PLANS. PANEL DIRECTORIES TO BE ADEQUATELY FILLED FOR CIRCUITS CONTROLLED.
- ALL PANEL BOARDS SHALL BE PROVIDED WITH A FACTORY INSTALLED GROUND BUS FOR CONNECTING TO GROUND THE GREEN WIRE IN ALL PVC CONDUITS. ALL BUSES TO PANEL BOARDS, MAIN DISTRIBUTION PANEL, SUBSTATION, SHALL BE HIGH CONDUCTIVITY COPPER BUS OF THE VOLTAGE AND PHASES REQUIRED BY PLANS.
- FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE INSTALLED FOR 600 VOLTS OF THE SIZE AND TYPE SPECIFIED IN DRAWINGS. ALL CONDUCTORS SHALL BE COLOR CODED AS PER NEC OF P.R. AND PREPA. CONDUCTORS TO BE NO MORE THAN SIX (6) MONTHS FROM MANUFACTURE. PROJECT INSPECTION TO VERIFY.
- ALL CONDUITS SHALL BE SECURELY FASTENED TO OUTLET BOXES AND CABINETS WITH ONE BUSHING AND TWO LOCKNUTS, ONE INSIDE AND THE OTHER OUTSIDE THE BOX OR CABINET. INSULATED BUSHING SHALL BE INSTALLED ON ALL CONDUITS 1-1/4" DIAMETER AND ABOVE.
- ALL ELECTRICAL INSTALLATION, MATERIALS AND METHOD OF WORK SHALL BE IN COMPLETE ACCORDANCE WITH LATEST PREPA, NEC, OGPPE, PBA AND OTHER AGENCIES APPLICABLE CODES AND REGULATIONS FOR SAID TYPE OF WORK AND SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL COORDINATION WITH OWNER'S REPRESENTATIVE IS MANDATORY.
- DIFFERENCES BETWEEN PLANS AND FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE OWNER/ OWNER REPRESENTATIVE AND ENGINEER IN CHARGE AND NO WORK SHALL BE MADE UNLESS APPROVED. SAVE AT CONTRACTOR'S OWN RISK AND EXPENSE.
- EQUIPMENT TO BE SUPPLIED AND INSTALLED BY OWNER AND OTHER TRADES OR CONTRACTORS SHALL HAVE INTEGRAL OVERLOAD PROTECTION. DISCONNECTING MEANS AND GROUND FAULT PROTECTION WHERE REQUIRED. POWER FACTOR FOR THIS EQUIPMENT AS WELL AS THAT SUPPLIED BY THE ELECTRICAL CONTRACTOR IS TO BE THE ABOVE REQUIRED BY THE PUERTO RICO ENERGY CODE.
- NO "UP" TYPE CONDUCTOR ALLOWED. ALL DROPS TO FIXTURES AND EQUIPMENT TO BE DONE IN FLEXIBLE METALLIC CONDUIT. PENDANT MOUNTED FIXTURES TO USE U.L. STEMS AS REQUIRED.
- NO 2" X 4" BOXES ALLOWED. MINIMUM SIZE BOX TO BE 4" X 4" 2-1/8" WITH SINGLE OR DOUBLE GANG RISED COVERS AND COVER PLATE UNLESS INDICATED OTHERWISE ON PLANS. ALL TO BE LOCATED IN ACCESSIBLE LOCATIONS.
- CONTRACTOR SHALL COORDINATE ALL OF HIS WORK, EXCAVATIONS, ETC. WITH OTHER TRADES AND UTILITIES OR RELATED AGENCIES AND OWNERS ARCHITECT OR ENGINEER AS TO "AS BUILT" CONDITIONS, BURIED UTILITIES, ETC. AND OBTAIN APPROPRIATE PERMITS BEFORE PROCEEDING.
- CONTRACTOR TO SUBMIT FOR APPROVAL LIGHTING FIXTURES, PANELS AND FITTINGS, AND OTHER ELECTRICAL MATERIALS AS REQUIRED. ALL TO BE AS PER U.L. NEMA IEEE, AND PREPA STANDARDS.
- ALL SWITCHES AND RECEPTACLES TO BE HEAVY DUTY SPECIFICATION GRADE. COLOR TO BE CHOSEN BY THE ARCHITECT. ALL PLATES TO BE HEAVY DUTY STAINLESS STEEL.
- CONTRACTOR TO REVISE, STUDY AND FULLY COORDINATE WITH THE STRUCTURAL DRAWINGS AS TO FOOTINGS, REINFORCING BARS, JOINTS FOR THE INSTALLATION OF THE EXPANSION AND DEFLECTION FITTINGS, ETC. EXPANSION FITTING SHALL BE USED ON ALL ELECTRIC CONDUITS CROSSING EXPANSION JOINTS.
- GROUNDING NET FOR ELECTRICAL SYSTEM SHALL BE CONSTRUCTED WITH EQUAL OR APPROVED EQUAL TO "HY GROUND" COMPRESSION CONNECTORS AND/OR CADWELL JOINTS.
- PROVIDE ELECTRICAL IDENTIFYING TAPE FOR UNDERGROUND CABLES 6" WIDE, YELLOW COLOR, INSTALLED OVER ALL DIRECT BURIAL UNDERGROUND CABLE AND DUCTS AT 24" TAPE SHALL BE PERMANENTLY PRINTED WITH CONTINUOUS BLACK LETTERS 1-1/4" X 1-1/4" X 5/8" WITH THE WORDS "PELIGRO, PELIGRO, PELIGRO", ETC.... AT THE TOP AND "LINEAS ELECTRICAS DEBAJO" AT BOTTOM.
- ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF FIXTURES, RECEPTACLES AND OTHER SERVICES FOR EQUIPMENT OR FURNITURE WITH ARCHITECTURAL DRAWINGS AND OWNERS REPRESENTATIVE.
- ALL EQUIPMENT TO BE INSTALLED SHALL BE NEW THROUGHOUT AND SHALL CONFORM TO THE NORMS AND STANDARDS ON NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA), U.S. STANDARDS, U.L., I.E.E., AND C.E.N.P.R. AND FEDERAL SPECIFICATIONS.
- ALL WIRING IN PVC CONDUIT SHALL INCLUDE A THWN GREEN GROUND CONDUCTOR. MINIMUM SIZE TO BE #12 THWN COPPER CONDUCTOR.
- CONTRACTOR SHALL COORDINATE WITH SUBCONTRACTORS AND EQUIPMENT SUPPLIERS THE CONNECTION AND STARTING MEANS OF ALL EQUIPMENT. TO BE INSTALLED IN THIS PROJECT, AND CONNECTED TO THE ELECTRICAL SYSTEM.
- FULL CAPACITY OF CONDUITS, JUNCTION BOXES AND CABLE TRAYS SHALL FOLLOW THE REQUIREMENTS OF N.E.C. 2017 EDITION AND WIRING BOXES SIZES SHALL BE AS PER THIS CODE.
- ALL BOXES FOR THIS INSTALLATIONS SHALL BE STAMPED STEEL 4" X 4", THE USE OF 4" X 4" WELDED BOXES IS NOT ALLOWED FOR CONCRETE INSTALLATIONS. WELDED BOXES TO BE USED FOR DRY WALL PARTITIONS ONLY.
- CONTRACTOR TO COLOR CODE ALL WIRING AS FOLLOWS:
 - FEEDERS AND RUNS AT 120/240 VOLTS - RED, BLACK.
 - SWITCH RETURNS - PINK, PURPLE.
 - NEUTRAL - WHITE.
 - GROUND - GREEN.
- TELEPHONE CONDUIT RUNS SHALL NOT HAVE MORE THAN TWO 90° BENDS OR ITS EQUIVALENT. ALL TO HAVE FISHWIRE INSTALLED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE INSTALLATION OF ELECTRICAL EQUIPMENTS. ALL THE SUBMITTED SHOP DRAWINGS SHALL BE APPROVED AND ENDORSED PRIOR TO COMMENCING THE CONSTRUCTION WORK AND THE SUBMITTALS OF ALL EQUIPMENT INCLUDING PANEL BOARDS, POWER PANELS, DISTRIBUTION PANELS, TRANSFORMERS, PRIMARY COMPARTMENTS AND ENGINE GENERATOR SETS AMONG OTHERS SHALL BE APPROVED BEFOREHAND.
- COORDINATION IS MANDATORY IN THIS PROJECT. CONTRACTOR TO COORDINATE WITH OTHER TRADES, ARCHITECT / ENGINEER AND OWNERS REPRESENTATIVES.



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REVISION	DATE 7

**PROPOSED
ELECTRICAL AND POWER
SITE PLAN**

**IMPROVEMENTS TO THE
COROZAL SPORT COMPLEX
FACILITY**
 PR-CRP-000888
 MUNICIPIO DE COROZAL, PUERTO RICO 00783

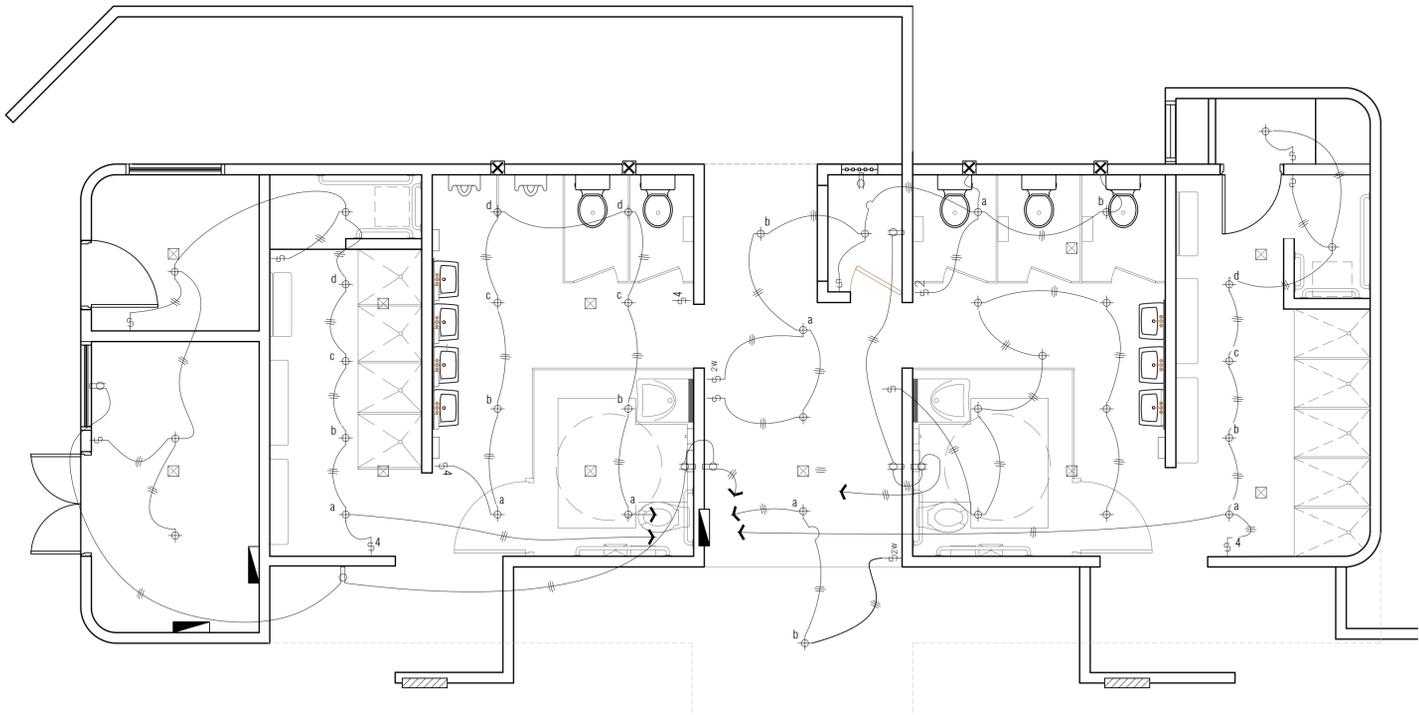
**ELECTRICAL
NEW COND.**

DATE	APRIL 2024
DRWG. SHEET	E-3

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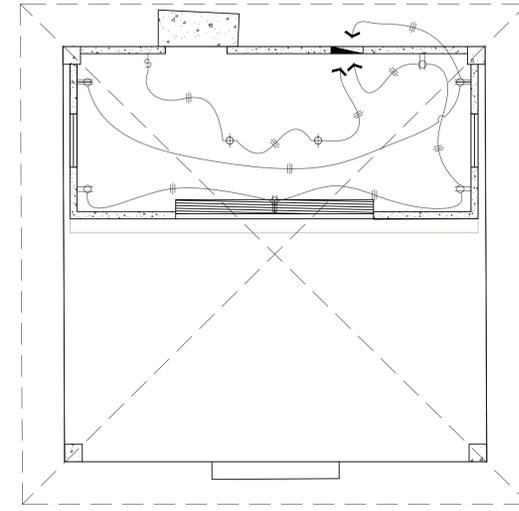
IMPROVEMENTS PROJECT - COROZAL SPORTS COMPLEX
NEW ELECTRICAL LAYOUT PLANS
 SCALE: AS NOTED



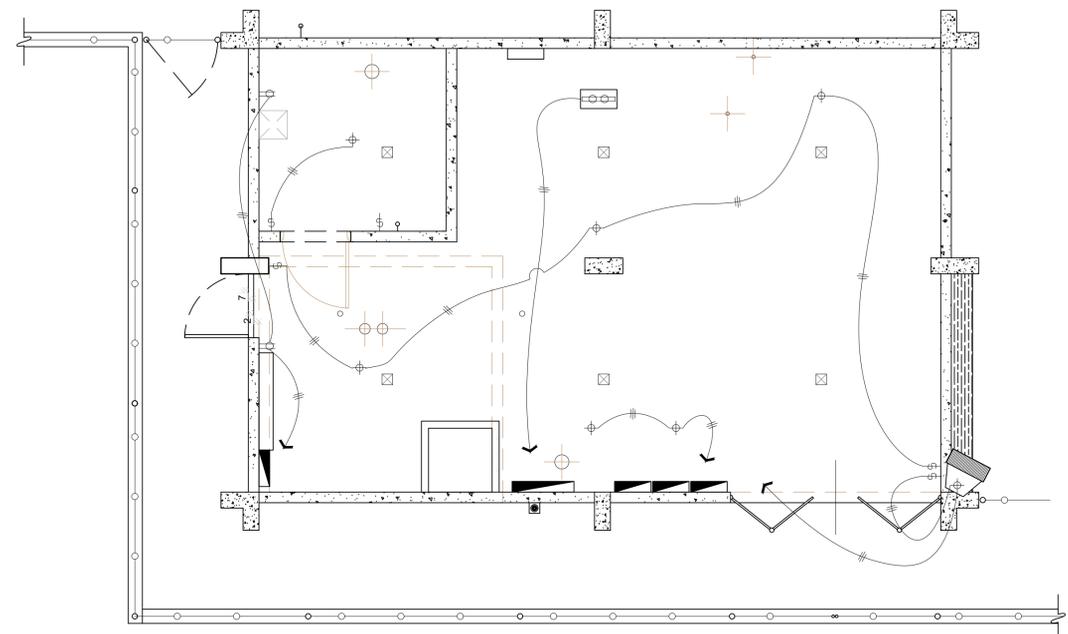
LEGEND

-  CEILING LAMP
-  RECEPTACLE
-  EXTRACTOR
-  INTERRUPTER SWITCH

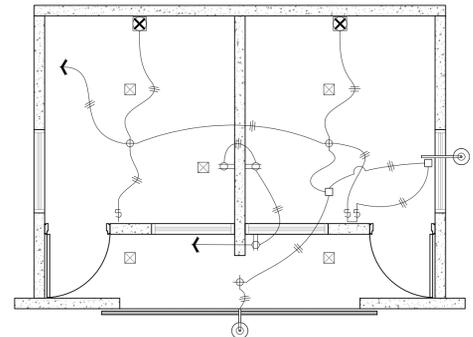
POOL BATHROOMS ELECTRICAL LAYOUT
 SCALE : 1/4"= 1'-0"



POOL BATHROOMS ELECTRICAL LAYOUT
 SCALE : 1/4"= 1'-0"



POOL BATHROOMS ELECTRICAL LAYOUT
 SCALE : 1/4"= 1'-0"



POOL BATHROOMS ELECTRICAL LAYOUT
 SCALE : 1/4"= 1'-0"

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REVISION	DATE 4
REVISION	DATE 5
REVISION	DATE 6
REVISION	DATE 7

PROPOSED ELECTRICAL AND POWER FOR AREAS

IMPROVEMENTS PROJECT COROZAL SPORTS COMPLEX PR-CRP-000883 MUNICIPALITY OF COROZAL

ELECTRICAL NEW COND.

DATE	APRIL 2024
DRWG. SHEET	E-4

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ELECTRICAL BOARD "A" POOL

# CIRCUIT	DESCRIPTION	PHASE A	PHASE B	VOLTAGE VOLTS (V)	SWITCH	DRIVERS		CIRCUIT DISTANCE in mts	%CAIDA F.P.95% por 30.48 m	Caída de voltaje	TUBERIA		OBSERVACIONES
		WATTS, (VA)			POLO / AMP/ TIPO	PHASE/ NEUTRAL/ EARTH	DIAM				TIPO		
C1	PROVIDED LIGHTING	300		120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C4	PROVIDED LIGHTING		300	120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C3	PROVIDED LIGHTING	300		120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C4	PROVIDED LIGHTING		300	120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C5	PROVIDED LIGHTING	300		120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C6	PROVIDED LIGHTING		300	120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	6 Lamps Connected to transformer (300 wts) 120 V/12/24 V AC
C7,8	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	20	0.125	0.08	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C9,10	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	20	0.125	0.08	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C11,12	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	20	0.125	0.08	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C13,14	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	20	0.125	0.08	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C15,16	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	20	0.125	0.08	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C17,18	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C19,20	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C21,22	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C23,24	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C25,26	PUMP 5 HP VS	1760	1760	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,10-16 AMP.
C27,28	PUMP 3 HP VS	1320	1320	240	2/20/AFCI	10 / 10 / 10	THHN	10	0.125	0.04	3/4	PVC TIPO A	Pump 3hp,8-12AMP.
C29,30	LAMP UV	260	260	240	2/20/AFCI	12 / 12 / 12	THHN	15	0.125	0.06	1/2	PVC TIPO A	LAMP UV 2.28 AMP
C31,32	LAMP UV	260	260	240	2/20/AFCI	12 / 12 / 12	THHN	15	0.125	0.06	1/2	PVC TIPO A	LAMP UV 2.28 AMP
C33,34	LAMP UV	260	260	240	2/20/AFCI	12 / 12 / 12	THHN	15	0.125	0.06	1/2	PVC TIPO A	LAMP UV 2.28 AMP
C35	TOMA PREVISTA	1300		120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	N/A
C36	TOMA PREVISTA		1300	120	1/20/AFCI	12 / 12 / 12	THHN	15	0.370	0.18	1/2	PVC TIPO A	N/A

LOAD DEMANDED BOARD "A".

DESCRIPTION	PHASE A	PHASE B	Load Feeder section 220 part B			Neutral load (VA) section 220-22					
	WATTS, (VA)										
TOTAL LOAD (VA)	21900	21900	Carga C. (VA), 3000VA,100% hasta120000 VA, 35% mayor anterior 25%	4036	Corriente alimentador (AMP)	Carga C. (VA), 3000VA,100% hasta120000 VA, 35% mayor anterior 25%	4036	Corriente neutro (AMP)			
Continuous Load	2980	2980	InomX125%. Sección 430-32 motores de servicio Continuo	39600		Sección 220-22, 70%	30545.2				
Pump Load	18920	18920									
TOTAL INSTALLED LOAD (VA)	43800		FEEDER DEMAND LOAD (VA)	43636	181.82	NEUTRAL DEMAND LOAD (VA)	34581.2	144.09			
Feeder	Tipo	Area mm ²	Lenght	%CAIDA F.P.95% por 30.48 m	Voltage Drop (V)	New Voltage (V)	Load Center	Thermomag main switch	EMT Pipe Type	Power Factor	95%
Phase	1 # 3/0 THHN	85	15	0.061	0.030	239.970	CH240 V/ 42 CIRCUITOS	200	32	Total installed load VA	43.80
Neutro	1 # 3/0 THHN	85	15	0.061	0.030	119.970				Total maximum demand VA	43.64
Earth	1 # 3/0 THHN	85	15	0.125	0.062	119.938				Total Installed Load Current, AMP	182.50
										Total Maximum Demand Current, AMP	181.82

ELECTRICAL BOARD

Scale: N/S

IMPROVEMENT PROJECT - COROZAL SPORT COMPLEX ATHLETIC POOL PANEL SCHEDULE

PROJECT WITHOUT TRANSFORMER PROJECT SUMMARY TABLE

ITEMS	BOARD: A
KVA total	43.80
KVA demand	43.64
Demand Factor	100%
Power Factor	0.95

RUSH

Living line	1 # 3/0 THHN
Neutral	1 # 3/0 THHN
Earth	1 # 3/0 THHN
Lenght	15
Nominal Voltage	240
Calculated Voltage	239.970
Voltage Drop	0.061

NOTE

MAIN SUMMARY OF THE PROJECT	
KVA total	43.80
KVA demand	43.64
Living Line	1 / 3/0 THHN
Neutral	1 / 3/0 THHN
Earth	1 / 3/0 THHN



APPLIED ENGINEERING GROUP
MANAGERS, ARCHITECTS, ENGINEERS AND PLANNERS
10 St. Montecarlo Avenue #666 Rio Piedras, PR 00924
P.O. Box 361298 San Juan, Puerto Rico 00936-1298
Office: PR - 771-9871 / 781-771-9888 / Fax: 781-771-9079, AEG@aol.com

CONSULTANT

REVISIONS	DATE
ISSUE FOR REVIEW - 30%	MAY 12, 2023 1
ISSUE FOR REVIEW - 60%	AUG 16, 2023 2
ISSUE FOR REVIEW - 90%	SEPT 19, 2023 3
ISSUE FOR REVIEW - 90%	OCT 19, 2023 4
REVISION	APR 24, 2024 5
REVISION	DATE 6
REVISION	DATE 7

ELECTRICAL PLAN ATHLETIC POOL PANEL SCHEDULE

IMPROVEMENTS TO THE COROZAL SPORT COMPLEX FACILITY MUNICIPIO DE COROZAL, PUERTO RICO 00783

ARCHITECTURAL PROPOSED PLAN

DATE
APRIL 2024

DRWG. SHEET
E-5

ArcGIS Web AppBuilder



9/16/2023, 1:44:38 PM

Sole_Source_Aquifers

1:9,244,649

0 105 210 420 mi
0 165 330 660 km

Esri, HERE, Garmin, NGA, USGS

U.S. Environmental Protection Agency

Attachment 12: Sole Source Aquifers

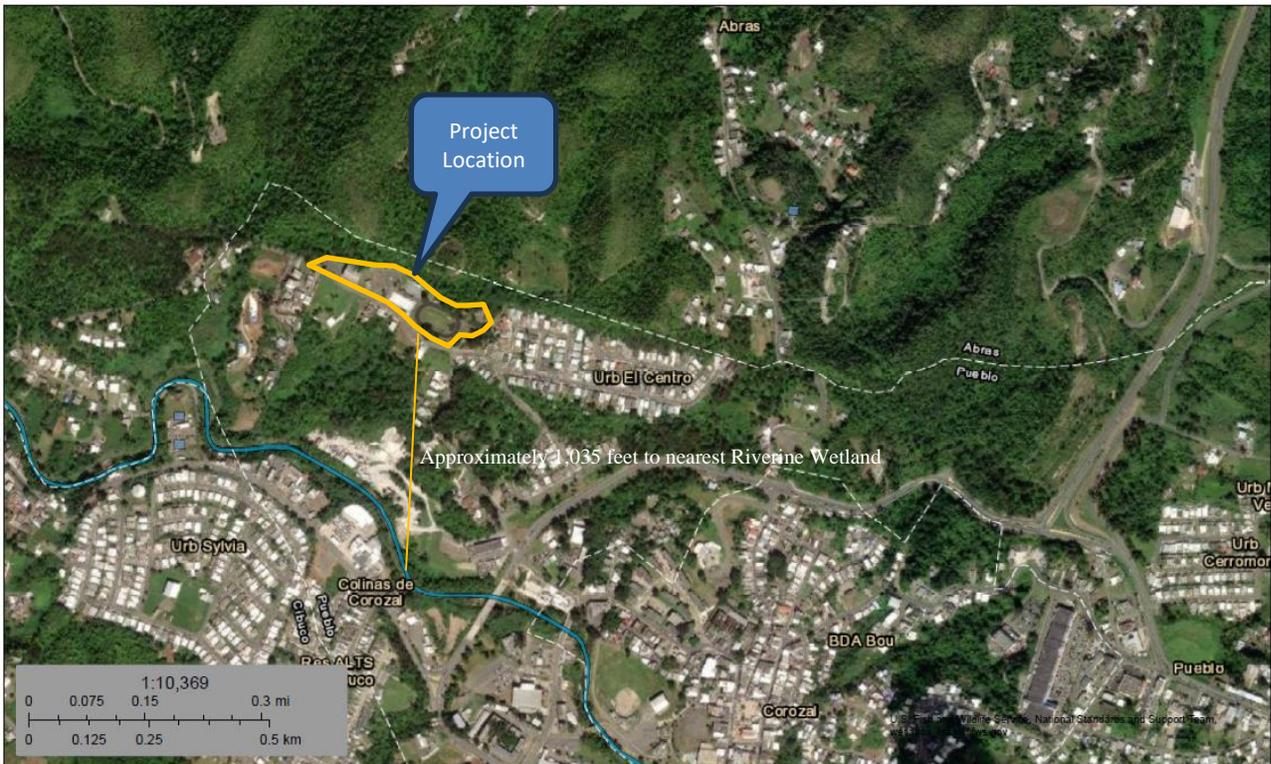
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: USEPA Map of Sole Source Aquifer Location

Website: <https://www.epa.gov/dwssa/map-sole-source-aquifer-location>

Prepared by: Applied Engineering Group



September 18, 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 13: Wetlands

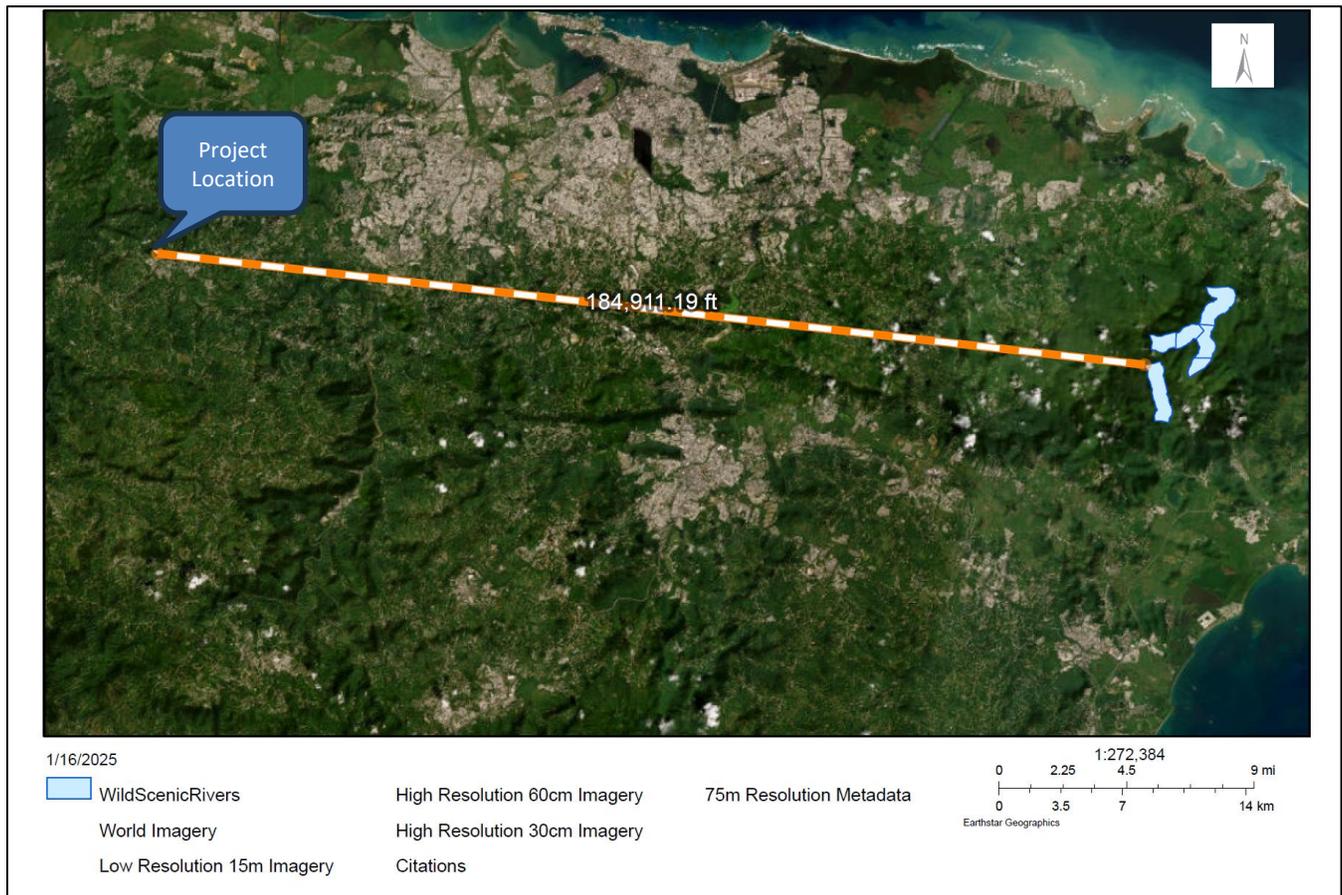
Project Name: Mejoras a Facilidades del Polideportivo de Corozal, Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

Source: USFWS National Wetlands Inventory – Wetlands Mapper

Website: <https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>

Prepared by: Applied Engineering Group



Attachment 14: Wild and Scenic Rivers

Project Name: Mejoras a Facilidades del Polideportivo de Corozal Municipality of Corozal, (PR-CRP-000883)

Location: 18.347432°, -66.322768°, Bo. Pueblo, Urbano Ramírez Street, Corozal, PR 00783

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>

Prepared by: Applied Engineering Group

Attachment 15
EJ Screen Report

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

EJ Screen Report

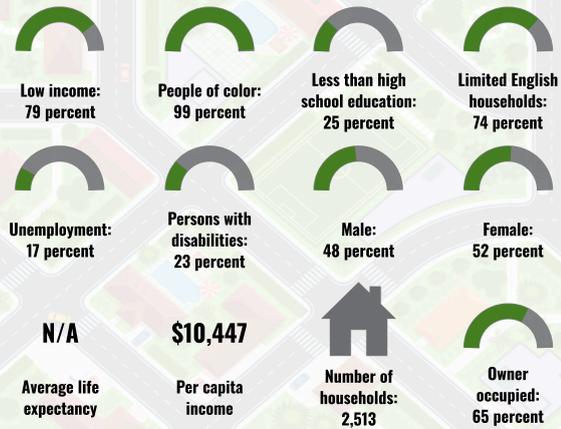
1 mile Ring around the Area
 Population: 7,730
 Area in square miles: 3.54



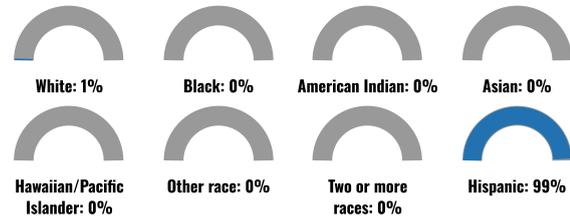
January 23, 2025
 EJ Screen Report

Source: Esri, Mapbox, Earthstar Geographics, and the GIS User Community, Esri, HERE, Garmin, ICF

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Life expectancy data comes from the Centers for Disease Control.

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	6%
Spanish	94%
Total Non-English	94%

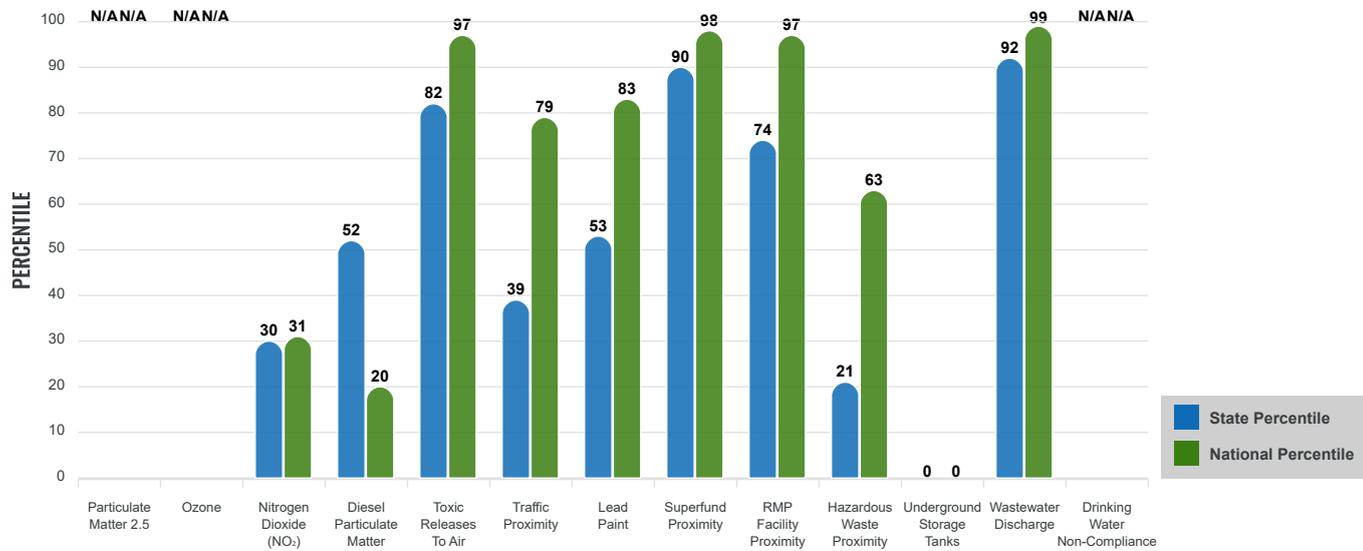
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

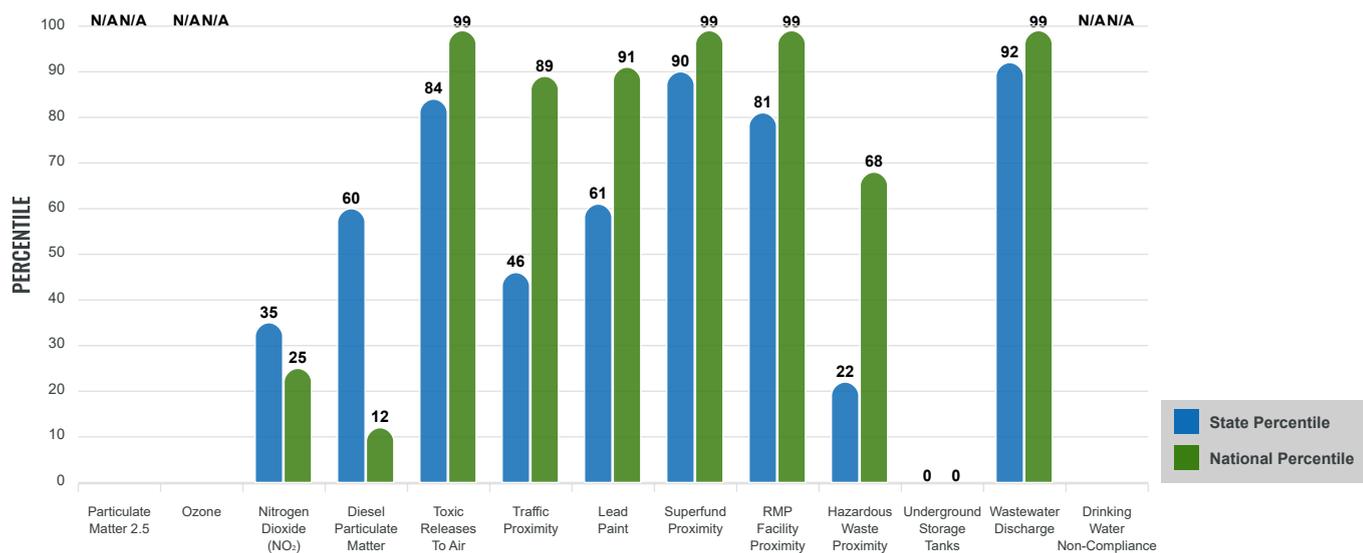
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for 1 mile Ring around the Area

Report produced January 23, 2025 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.45	N/A
Ozone (ppb)	N/A	N/A	N/A	61.8	N/A
Nitrogen Dioxide (NO_2) (ppbv)	2.9	5.5	29	7.8	6
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.0366	0.0618	49	0.191	4
Toxic Releases to Air (toxicity-weighted concentration)	2,100	4,300	80	4,600	73
Traffic Proximity (daily traffic count/distance to road)	440,000	1,100,000	38	1,700,000	37
Lead Paint (% Pre-1960 Housing)	0.2	0.16	73	0.3	48
Superfund Proximity (site count/km distance)	0.42	0.23	88	0.39	81
RMP Facility Proximity (facility count/km distance)	0.87	0.66	68	0.57	77
Hazardous Waste Proximity (facility count/km distance)	0.19	1.2	21	3.5	22
Underground Storage Tanks (count/ km^2)	0	0	0	3.6	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	2300000	670000	90	700000	99
Drinking Water Non-Compliance (points)	N/A	N/A	N/A	2.2	N/A
SOCIOECONOMIC INDICATORS					
Demographic Index USA	3.42	N/A	N/A	1.34	98
Supplemental Demographic Index USA	4.47	N/A	N/A	1.64	99
Demographic Index State	4.9	4.63	57	N/A	N/A
Supplemental Demographic Index State	3.04	2.72	63	N/A	N/A
People of Color	99%	97%	25	40%	96
Low Income	79%	70%	57	30%	97
Unemployment Rate	18%	14%	69	6%	94
Limited English Speaking Households	74%	66%	59	5%	99
Less Than High School Education	25%	20%	65	11%	88
Under Age 5	4%	3%	62	5%	39
Over Age 64	18%	23%	32	18%	59

*Diesel particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	5
Air Pollution	1
Brownfields	0
Toxic Release Inventory	0

Other community features within defined area:

Schools	3
Hospitals	1
Places of Worship	0

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring around the Area

Report produced January 23, 2025 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	5.8	N/A
Asthma	N/A	N/A	N/A	10.3	N/A
Cancer	N/A	N/A	N/A	6.4	N/A
Persons with Disabilities	23.2%	22.7%	54	13.7%	92

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	N/A	N/A	N/A	12%	N/A
Wildfire Risk	N/A	N/A	N/A	14%	N/A

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	31%	29%	59	13%	91
Lack of Health Insurance	6%	7%	51	9%	45
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for 1 mile Ring around the Area

Report produced January 23, 2025 using EJScreen Version 2.3

Attachment 16
Photos of Site Conditions

Item 1. Racket Ball Court:



Item 2. Tennis Court:



Item 3. Parking:



Item 4. Pool and Facilities:





Red:abr. 25, 2023, 3:09:06 p.m. AST
+ 18.348003,-66.323967
Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883

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Red:abr. 25, 2023, 3:09:41 p.m. AST
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Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883

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Corozal Puerto Rico 00783
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PR-CRP-000883

APPLIED ENGINEERING GROUP
ARCHITECTURE, ENGINEERING AND PLANNING



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Corozal Puerto Rico 00783
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PR-CRP-000883

APPLIED ENGINEERING GROUP
ARCHITECTURE, ENGINEERING AND PLANNING



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PR-CRP-000883

APPLIED ENGINEERING GROUP
ARCHITECTURE, ENGINEERING AND PLANNING



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Corozal Puerto Rico 00783
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PR-CRP-000883

APPLIED ENGINEERING GROUP
ARCHITECTURE, ENGINEERING AND PLANNING



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PR-CRP-000883



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PR-CRP-000883



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Observación: Complejo Deportivo Corozal
PR-CRP-000883



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Corozal Puerto Rico 00783
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PR-CRP-000883



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Observación: Complejo Deportivo Corozal
PR-CRP-000883



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Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



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Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



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+ 18.347876, 66.323736
Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



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+ 18.347876, 66.323736
Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



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Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



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Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



Red:abr. 25, 2023, 2:24:23 p.m. AST
+ 18.347876, 66.323736
Corozal Puerto Rico 00783
Observación: Complejo Deportivo Corozal
PR-CRP-000883



Item 5. Basketball Court:



Item 6. Athletic Court:





Item 7. Playground Area:





Item 8. Entrance:

