U.S. Department of Housing and Urban Development
451 Seventh Street, SW
Washington, DC 20410
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Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: **Boulevard Luis Muñoz Marín (PR-CRP-001035)**

Responsible Entity: **Puerto Rico Department of Housing**

State/Local Identifier: **Puerto Rico (PR-CRP-001035)**

Preparer: **Clifford Jarman**

Certifying Officer Name and Title: Juan Carlos Perez-Bofill - Director, Disaster Recovery CDBG-DR; Sally Z. Acevedo-Cosme - Permits and Environmental Compliance Specialist; Pedro de León Rodriguez - Permits and Environmental Compliance Specialist; Maria T. Torres-Bregón - Permits and Environmental Compliance Manager; Angel G. López Guzmán - Deputy Director, Permits and Environmental Compliance; Ivelisse Lorenzo Torres - Permits and Environmental Compliance Specialist; Santa Ramírez Lebrón - Permits and Environmental Compliance Specialist; Janette I. Cambrelen - Permits and Environmental Compliance Specialist; Limary Vélez Marrero - Permits and Environmental Compliance Specialist, Mónica Machuca Rios - Permits and Environmental Compliance Specialist

Grant Recipient (if different than Responsible Entity)**:** **Municipio de Adjuntas**

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

Direct Comments to: **PRDOH (environmentcdbg@vivienda.pr.gov)**

Project Location: Rodulfo González Street PR-5516, Adjuntas PR 00601 (18.171523, -66.728201) (Parcel ID# 266-000-002-63-000)

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

The Municipality of Adjuntas proposes to enhance the entrance to the town center in an area adjacent to the Guarionex Municipal Complex located on Rodulfo González Street.

The project consists of reconfiguration of the gazebo areas into spaces for food trucks, installation of solar lighting, relocation of sanitary restrooms, rehabilitation of the swimming pool and creation of associated water park, creation of a recreational area using recreational water sprinklers for the enjoyment of adults and children adjacent to the pool, recondition of the green area, and installation of fixed urban mobiliary.

Solar lighting will also be installed around the premises and sanitary facilities will be provided in addition to the utilities necessary to establish the businesses. A new building is proposed to contain the public bathrooms that will be used for the aquatic park, play area and recreational areas. A concrete slab foundation will be built for portable toilets.

In addition, the project contemplates the recondition of the pool located inside the Guarionex Municipal Complex. Part of this proposal is to create a removable floor made of glass or acrylic in which it can be used to cover the pool area when not in use. For the restoration of the pool, the intention is to partially dig out the existing fill to reduce the water depth and lessen the pool maintenance costs. A section of the pool is projected to have heated water for a hot tub. Additionally, the project includes recreational areas with water sprinklers for the enjoyment of adults and children. This public attraction will be in an area adjacent to the pool, the total area of the location of the pool and the streams will be approximately 1,100 square meters.

The park area will include concrete benches and sidewalks and gazebos with umbrellas and tables for picnics. The signage artwork of big letters with the town's name "Adjuntas" is proposed in concrete or metal with LED lighting.

All work will be conducted within the footprint of the project site. See Appendix A Figure 1 Project Area Map.

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

The vision of the project is to recondition the surrounding areas of the Boulevard and preserve its green areas in order to enhance the main entrance of the town and promote tourism. The project proposes to include spaces for the creation of small businesses for the benefit of low- and middle-income residents who intend to establish their business. This includes the creation of spaces where merchants with street food businesses "food trucks" can locate them in a space that provides security, both to merchants, to traffic, and to their visitors.

Part of the proposal is to create a removable floor in glass or acrylic in which it can be used to cover the pool area when not in use that will create an area of interest in which people can walk on it and observe the water below this crystalline cover, creating a unique tourist attraction.

It is proposed to create a safe and accessible path or path in the green area that connects the kiosks area with the area of water attractions and the area of chorreras attractions to facilitate access to the aforementioned attractions in connection with nature.

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

The proposed site is located at the entrance to the urban area, an area adjacent to the Guarionex municipal complex located on the Boulevard. The existing condition of the site is an underutilized parcel that has a filled-in swimming pool covered with grass, an asphalted lot to the north, and access

roads from both streets. The site is surrounded by green areas. The areas surrounding this complex have ample spaces for the location of fixed businesses and food trucks, in addition to green areas.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001	CDBG-DR	$1,507,179,000
B-18-DP-72-0001	CPD/CDBG-DR	$8,220,783,000
B-19-DP-78-0002	CPD/CDBG-DR	$277,853,230
B-18-DE-72-0001	CPD/CDBG-DR	$1,932,347,000
	TOTAL	**$11,938,162,230**

Estimated Total HUD Funded Amount: $4,292,548.60

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**: $4,292,548.60**

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

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	The closest airport to the Project site is International Airport Mercedita (Number 1 on map). This facility is 15.01 miles southeast of the project site. The closest military airport to the Project site is Rafael Hernandez Airport (Number 3 on map) which is collocated with the Coast Guard Air Station Borinquen. This facility is 34.24 miles northwest of the project site.

		The project is not located within 15,000 feet of a military airport, or 2,500 feet of a civilian airport. The project and will not impact any Airport and is in compliance with HUD Airport Hazards regulations. No additional evaluation is required. See Figure 2 in Appendix A with distances to the airports indicated in the legend.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The Project site is not located in or adjacent to a CBRS Unit. The nearest unit is approximately 12.7 miles to the south. The Project is in compliance with Coastal Barrier Resources requirements. Refer to Figure 3 in Appendix A.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes ☐ No ☒	The Project Site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C1090H, effective date April 19, 2005. Floodplain insurance will not be required for the project facilities. The Project is in compliance with Flood Insurance requirements. Refer to Figures 4 and 5 in Appendix A.

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 ☒	The Project site is not located in a county or air quality management district that is in maintenance status or non-attainment status for any criteria pollutants. The Municipio of Adjuntas is not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants" The Project is in compliance with Clean Air requirements. Refer to EPA listing in Appendix B.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	The Project site is not located in a Coastal Zone. The closest coastal area is located 56,500 feet from the project. The project

		does not affect a Coastal Zone as defined in the PR Coastal Zone Management Plan. The Project is in compliance with Coastal Zone Management requirements. Refer to Figure 6 in Appendix A.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☐ No ☒	The facility was built in circa 1983 after the ban on lead-based paint in residential or child occupied buildings in 1978. A survey for asbestos containing materials (ACM) was conducted in the old pool area. The area was certified as asbestos free. (See report in Appendix B) Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project (see figure 7 in Appendix A). No contamination was reported on the project site. If buried material are encountered during construction activities, work will stop and testing conducted to determine the hazards. Appropriate worker safety protocols and material disposal requirements will be added to the contractor requirements. There are 5 RCRA sites within 3,000 feet of the Project Site (see ECHO reports in Appendix B). The closest is the Bristol Meyers Barcelontea Inc. located 0.25 miles feet northwest of the Project site. None of these RCRA sites have RCRA violations for the last three years. The PRASA Adjuntas Nueva Water Treatment Plant, located 0.17 miles to the northwest of the Project Site had no RCRA violations within the last three years but had three Clean Water Act violations related to gross effluent releases. See ECHO reports of these sites in Appendix B. With the release conditions and the distances, there would not be any impacts to the project site.

		The project does not involve residents and will not increase occupancy of any structures. There will be no increased risk associated with the proposed project. The Project is in compliance with Contamination and Toxic Substances requirements. Refer to Figure 7 in Appendix A and supporting documentation in Appendix B.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	The Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website lists the Puerto Rican Broad-winged Hawk, Puerto Rican Parrot, Puerto Rican Sharp-shinned Hawk, Puerto Rican Boa, and the Puerto Rican Harlequin Butterfly as being able to be found in the area, but there are no critical habitats for them at this location. The nearest critical habitat is 60,786 feet to the southwest of the project site (See Figure 8 in Appendix A). A site-specific review of endangered species was conducted in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) and the Self-Certification guidelines in the 2014 USFW Caribbean Ecological Services Field Office Blanket Clearance Letter (See Appendix D). Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, a Self-Certification was made that the proposed project is not likely to adversely affect federally-listed species. On February 1, 2024, the USFWS concurred the proposed project qualified for the blanket concurrence. If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources

<table>
<tr><td></td><td></td><td>(PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa Conservation Measures guidelines.

The Project is in compliance with Endangered Species requirements.

Refer to reports in Appendix D.</td></tr>
<tr><td>Explosive and Flammable Hazards

24 CFR Part 51 Subpart C</td><td>Yes ☐ No ☒</td><td>The proposed project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage facilities. Planned activities in the project area do not include installation of storage tanks. The project would not introduce new residents.

While the project will not involve residents, the Project would involve occupancy by employees and clients. Using the HUD Acceptable Separation Distance calculator webpage, acceptable separation distances for various size tanks are presented in the table below.

<table>
<tr><th rowspan="2">AST Tank Size</th><th colspan="2">Acceptable Separation Distance</th></tr>
<tr><th>Explosive Hazard</th><th>Thermal Hazard</th></tr>
<tr><th>(gallons)</th><th>(feet)</th><th>(feet)</th></tr>
<tr><td>100</td><td>106</td><td>18</td></tr>
<tr><td>200</td><td>142</td><td>24</td></tr>
<tr><td>250</td><td>156</td><td>27</td></tr>
<tr><td>500</td><td>208</td><td>37</td></tr>
<tr><td>1,000</td><td>277</td><td>51</td></tr>
<tr><td>2,000</td><td>370</td><td>70</td></tr>
<tr><td>2,500</td><td>406</td><td>77</td></tr>
<tr><td>5,000</td><td>541</td><td>106</td></tr>
<tr><td>10,000</td><td>722</td><td>146</td></tr>
<tr><td>15,000</td><td>855</td><td>176</td></tr>
<tr><td>20,000</td><td>964</td><td>201</td></tr>
<tr><td>25,000</td><td>1,058</td><td>223</td></tr>
<tr><td>30,000</td><td>1,141</td><td>243</td></tr>
<tr><td>50,000</td><td>1,412</td><td>307</td></tr>
<tr><td>100,000</td><td>1,884</td><td>423</td></tr>
<tr><td>500,000</td><td>3,683</td><td>890</td></tr>
<tr><td>1,000,000</td><td>4,916</td><td>1,226</td></tr>
</table>

Aerial views and street views were examined for the presence of above ground storage tanks. The vicinity of the project site was assessed for aboveground storage tanks</td></tr>
</table>

		with less than the acceptable separation (ASD) distance associated with their storage capacity. Examination of aerial views and street views show no above ground storage tanks within the acceptable separation distance. Therefore, the vicinity of the project site was assessed for above ground storage tanks of that size within that distance. The Project is in compliance with Explosive and Flammable Hazards requirements.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	The project site contains soils that are considered farmlands of statewide importance. The area is defined as urban in census maps. See maps and report in Appendix F. The project area is not currently used for agricultural use. The Project does not include any activities, including new construction, acquisition of undeveloped land or conversion, which could convert land being used for agricultural to a non-agricultural use. The Project is in compliance with Farmland Protection requirements.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	The Project Site is not located in a FFRMS floodplain per the Advisory Base Flood Elevation Map. See Figure 5 in Appendix A. The Project is in compliance with Floodplain Management requirements.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	The site was evaluated on November 10, 2023, January 5, 2024, and February 2, 2024 by an SOI Qualified Archaeologist and on October 31, 2023 and January 23, 2024 by an SOI Qualified Architectural Historian. Documentation with maps was subsequently submitted to SHPO (Appendix E). SHPO concurred with a finding of No Historic Properties Affected within the project's Area of Potential on Effects on March 14, 2024.

		Refer to the report in Appendix E. This project is in compliance with Historic Preservation requirements.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☐ No ☒	The project involves reconfiguration/rehabilitation of the gazebo areas, rehabilitation of the swimming pool, relocation of sanitary restrooms, installation of new solar lighting, creation of new features associated with the water park, construction of new concrete benches and sidewalks and gazebos with umbrellas and tables for picnics, and installation of fixed urban mobiliary. Although this project involves new construction, the proposed action does not involve residential use, so there would be no new noise receptors. The proposed uses are consistent with current use. There would be no increase in operations noise. Construction will be conducted during normal construction hours (7:00 am to 4:00 pm) using equipment with internal noise suppression systems. The Project is in compliance with Noise Abatement and Control requirements.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no EPA sole source aquifers in Puerto Rico. See Figure 9 In Appendix A. The project is in compliance with Sole Source Aquifer requirements.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The National Wetlands Inventory (NWI) mapping shows a riverine wetland east of the project area. See Figure 10 in Appendix A. The wetland is 198 feet east of the nearest portion of the parcel that will be disturbed by the proposed project. A different parcel lies between the project parcel and the riverine wetland.

		Therefore, the Project is in compliance with Wetlands Protection requirements. Refer to Figure 10 in Appendix A.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	Puerto Rico has only three Wild and Scenic Rivers, located on the east side of Puerto Rico. The proposed Project is located on the west coast of Puerto Rico, approximately 323,400 feet from said rivers. There would be no impact to Wild and Scenic Rivers. Therefore, the Project is in compliance with Wild and Scenic Rivers requirements. Refer to Figure 11 in Appendix A.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately be high for low-income and/or minority communities. Therefore, the Project is in compliance with Environmental Justice requirements.

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The Project area is designated as SU "Urban Land." The Project would improve an existing public use/recreation area. The Project-related activities would occur within existing developed area and consist of repairs and enhancements of existing uses. No changes in zoning, easements, or land use are anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The proposed improvements include excavations for new pool and concrete pads. There would be no permanent changes to the site that would affect slope, drainage, or stormwater runoff.
Hazards and Nuisances including Site Safety and Noise	2	The project site is in an urbanized area. The project would involve demolition, excavation, and construction. The hazards typically associated with construction activities would be present, temporary site safety issues and noise. The proposed project, once constructed, would not create any additional hazards or nuisances or create any new site safety or noise issues. Noise impacts would be addressed by conducting demolition and construction activities in accordance with local noise regulations and proper construction equipment maintenance. Standard BMPs, such as construction fencing, would be applied to protect the public from typical construction hazards. BMPs and signage would warn and protect the public during construction activities.
SOCIOECONOMIC		
Employment and Income Patterns	**1**	Temporary employment of construction workers related to construction activities would result. Depending on the amount of tourism and use of the park new temporary and permanent employees may be added. The proposed project would not negatively impact long-term employment or income patterns.
Demographic Character Changes, Displacement	**1**	The proposed project would not result in demographic character changes or displacement. Due to the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project. New food truck space would be made available as a result of this project.
Environmental Justice	2	The project would not alter the Environmental Justice composition of the population in the area surrounding the project area. There are currently no residents at the project site, and the project would not increase the population that could be exposed to environmental hazards. No environmental hazards

		were identified on or surrounding the project site that could disproportionately environmental justice populations.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	1	Long-term beneficial impacts would result from new food truck vendors. The project would not increase demand for commercial facilities.
Health Care and Social Services	2	Health care and social services facilities would not be impacted by the proposed project. It would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	The activities would generate solid waste (i.e., construction debris). Project-wide salvaging/recycling of materials would occur as determined feasible with other program requirements. All other materials would be taken to the appropriate landfills. A solid waste management plan would be developed and implemented to ensure that all potentially hazardous solid waste is handled properly, and that daily capacities of landfills and other solid waste facilities are not exceeded.
Waste Water / Sanitary Sewers	2	The project would include relocation of bathroom facilities. No new connections to municipal sanitary sewer system would be needed. The proposed project would not affect wastewater infrastructure and would not increase demand for service.
Water Supply	2	The project would include relocation of bathroom facilities and renovation of pool facilities. No new connections to municipal water supply would be needed. The proposed project would not affect water infrastructure and would not increase demand for service. Existing on-site and nearby water connections would be used for construction activities.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project would not increase the area population and so demand for police, fire, and emergency medical services in the community would not increase. Services at the project site would be provided by the existing community police, fire, and emergency medical services.
Parks, Open Space and Recreation	1	The proposed project would rehabilitate the pool and add new water park features. The new facilities would be beneficial to the existing public use and increase recreational activities.

Transportation and Accessibility	2	Construction of the proposed project may result in minor temporary traffic increases and access issues during construction due to material deliveries or use of equipment. Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. There would be no long-term impacts. Long-tern access to the project would remain the same.
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	No stream or wetland would be affected by the changes to the park.
Vegetation, Wildlife	2	The proposed project activities would be within an existing urban public use/recreation area. The project would not impact native vegetation. Additionally, the proposed project would not impact wildlife or wildlife habitat.
Other Factors	2	No other factors were identified that would be affected by the proposed project.
CLIMATE AND ENERGY		
Climate Change Impacts	2	Because the project is a rehabilitation of an existing public use/recreation space, there would be no changes to the site configuration or structure that would specifically address the possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity. The Project site is not located in a 100-year floodplain. The project design would not change the area's urban heat island effects or stormwater runoff.
Energy Efficiency	2	The project would not result in any change in the area's energy demand. Regional energy use would not change. The addition of solar lighting would increase the project site energy efficiency.

Additional Studies Performed:

A survey for Asbestos Containing Materials was conducted on June 11, 2024.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf

John H. Chafee Coastal Barrier Resources System, Puerto Rico map. www.fws.gov/CBRA/Maps/Locator/PR.pdf

National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php

Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/

Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book): www3.epa.gov/airquality/greenbook/anayo_pr.html

US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics

US Fish and Wildlife Service, Environmental Conservation Online System: https://ecos.fws.gov/ecp/report/species-listings-by-state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed

Federal Emergency Management Agency, Flood Mapping Service: https://msc.fema.gov/portal/home (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:

www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009.

US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.

US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria,

www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8

List of Permits Obtained:

None required.

Public Outreach [24 CFR 58.43]**:**

The local community has been very proactive in the recovery process. A combined Notice of Finding of No Significant Impact (FONSI) and Notice of Intent to Request Release of Funds (NOIRROF) will be published in a local newspaper. Copies of that public notice also will be sent to all known interested parties.

Cumulative Impact Analysis [24 CFR 58.32]**:**

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The repair and improvements to the existing public spaces/recreation area

would not change the land use of the spaces or the adjoining parcels. A slight increase in use of the spaces would result from their restoration and improvement.

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

As the action is to renovate and improve the existing public use/recreative facility within the urban area, no other location was considered. Operational alternatives included renovating the pool without the glass cover. This alternative would not result in less impact and would reduce the attractiveness of the facility for tourists.

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

Under the No Action Alternative, the applicant would not receive federal funding for the project and the proposed improvements will not be implemented, and the recreative facility will not be enhanced.

Summary of Findings and Conclusions:

The proposed activity has been found to not have any adverse effects on the environment nor is there the requirement for further consultation with federal agencies associated with the topics evaluated above. There are no environmental review topics addressed above that result in the need for additional formal compliance steps with federal agencies or the requirement for mitigations other than those listed below. There may be additional approvals or permits from local agencies. For example, the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction, and any other procedure necessary for business development and land use in Puerto Rico.

In addition, the Project is anticipated to provide overall beneficial social and economic effects to the Municipality of Adjuntas by addressing the recreational needs of the populations and providing new opportunities for economic development as a result of increased tourism activity in the disadvantaged communities where the project is taking place.

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.

The environmental review topics addressed in this environmental review include all formal compliance steps with federal agencies and mitigations (listed in table below) needed for compliance with 24 CFR 58.

Any permits or approvals that have been issued during the preparation of this environmental review have been included in the evaluation of impacts and mitigations. Any special permit conditions or requirements associated with these permits are listed in the Mitigation Measures and Conditions table below.

Law, Authority, or Factor	Mitigation Measure
Endangered Species	Conservation measures for the Puerto Rican Boa need to be implemented if the Boa is encountered during construction.
Hazards and Nuisances	Demolition and construction activities shall be conducted in accordance with local noise regulations. Construction equipment shall be maintained to ensure compliance with local noise regulations. Standard BMPs, such as construction fencing and signage, shall be applied would be applied to warn and protect the public during construction activities.
Solid Waste Disposal / Recycling	Salvaging/recycling of materials shall be as determined feasible with other program requirements. A solid waste management plan shall be developed and implemented.

Obtained Permit or Approval	**Special Permit Conditions**
Potential Permit or Approval Required	
There may be subsequent additional approvals or permits from agencies required for the project before the start of construction. For example, permits may be required the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction approvals, and any other procedure necessary for business development and land use in Puerto Rico.	
Ground disturbance	Projects whose earthworks are more than 40 m^3 must submit an Incidental Permit.
Utility Connections	The site already has connections to the local utility services.
Wetlands	Erosion controls and sedimentation best management practices should be utilized to ensure protection of wetlands.

There may be subsequent additional approvals or permits from agencies required for the project before the start of construction. For example, permits may be required from PRDNER for any water or other utility connections and the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction approvals, and any other procedure necessary for business development and land use in Puerto Rico.

In addition, during construction the project will have to comply with applicable regulations, requirements, and BMPs associated with general construction worker safety; public safety; management of hazardous material; spill control; use of heavy equipment; etc.

Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: Clifford J Jarman Date: **08/01/24**

Name/Title/Organization: Clifford J. Jarman, Tetra Tech, Inc

Responsible Entity Agency Official Signature:

Signature: [signature] Date: 8/28/2024

Name/Title: Sally Z. Acevedo, Permits and Environmental Compliance Specialist

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

Appendix A

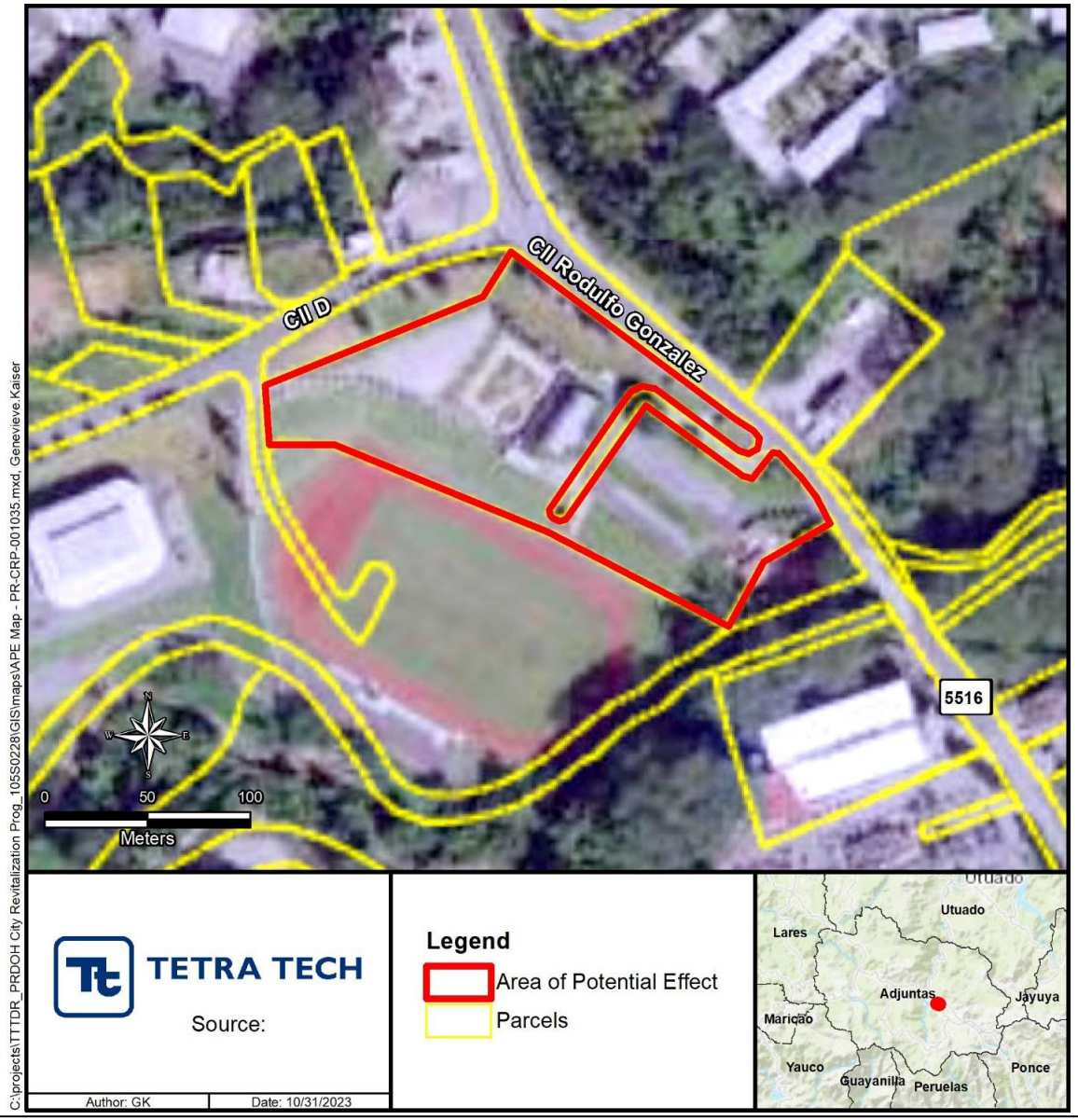
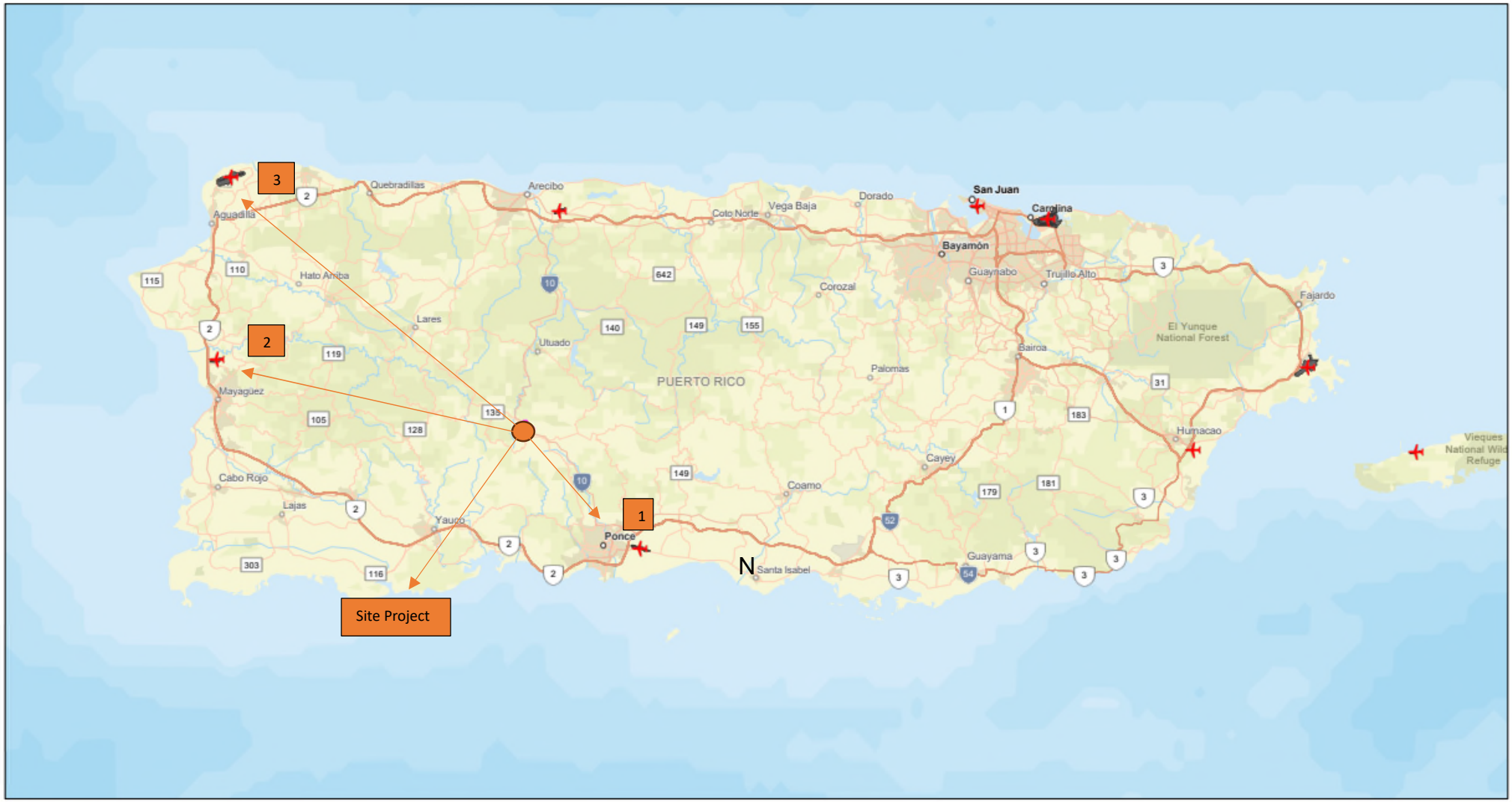


Figure 1: Project Location

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)
Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)
Source: Google Earth, CRIM, PR SHPO, NSPS NRIS
Website: https://www.google.com/maps
Author: Tetra Tech Inc.

N



June 26, 2023

- Search Result (point)
- Airport Points
- Airport Polygons
- Railroads

1. International Airport Mercedita (15.01 miles)
2. Airport Eugenio Maria de Hostos (27.6 miles)
3. International Airport Rafael Hernandez (34.24 miles)

N

Figure 2. Airport Hazards Map
Boulevard Luis Munoz Marin, Adjuntas

Applicant ID: PR-CRP-001035
Project Coordinates: 18.171523, -66.728201
Address: Rodulfo Gonzalez Street PR-5516
Adjuntas, PR 00601

1:577,791

0 5 10 20 mi
0 10 20 40 km

Esri, HERE, Garmin, Foursquare, SafeGraph, FAO, METI/NASA, USGS, NPS, EPA OEI

U.S. Fish and Wildlife Service

Coastal Barrier Resources System

Figure 3. PR-CPR-001035 CBRS Map

(18.171523, -66.728201)



March 5, 2024

CBRS Units

- Otherwise Protected Area
- System Unit

N

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

Figure: 4 National Flood Hazard Layer FIRMette PR-CRP-001035

FEMA

66°44'W 18°10'35"N



66°43'23"W 18°10'N

Feet 1:6,000

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

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/21/2023 at 8:26 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.

Figure 5: Mapa Niveles de Inundación Base Recomendados PR-CRP-001035 (18.171523, -66.728201)



9/21/2023, 8:26:28 PM

0.2 PCT- Límite entre niveles de inundación ABFE

0.2 PCT - Delimitación de Zonas Inundables

Zona Inundable

A

AE

AO

A Costera

VE

X (0.2% Probabilidad Anual de Inundación)

1 PCT Cauce Mayor

Panel

N

1:2,257

0 0.03 0.05 0.1 mi

0 0.04 0.08 0.16 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, PRPB; FEMA

Junta de Planificación, FEMA

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

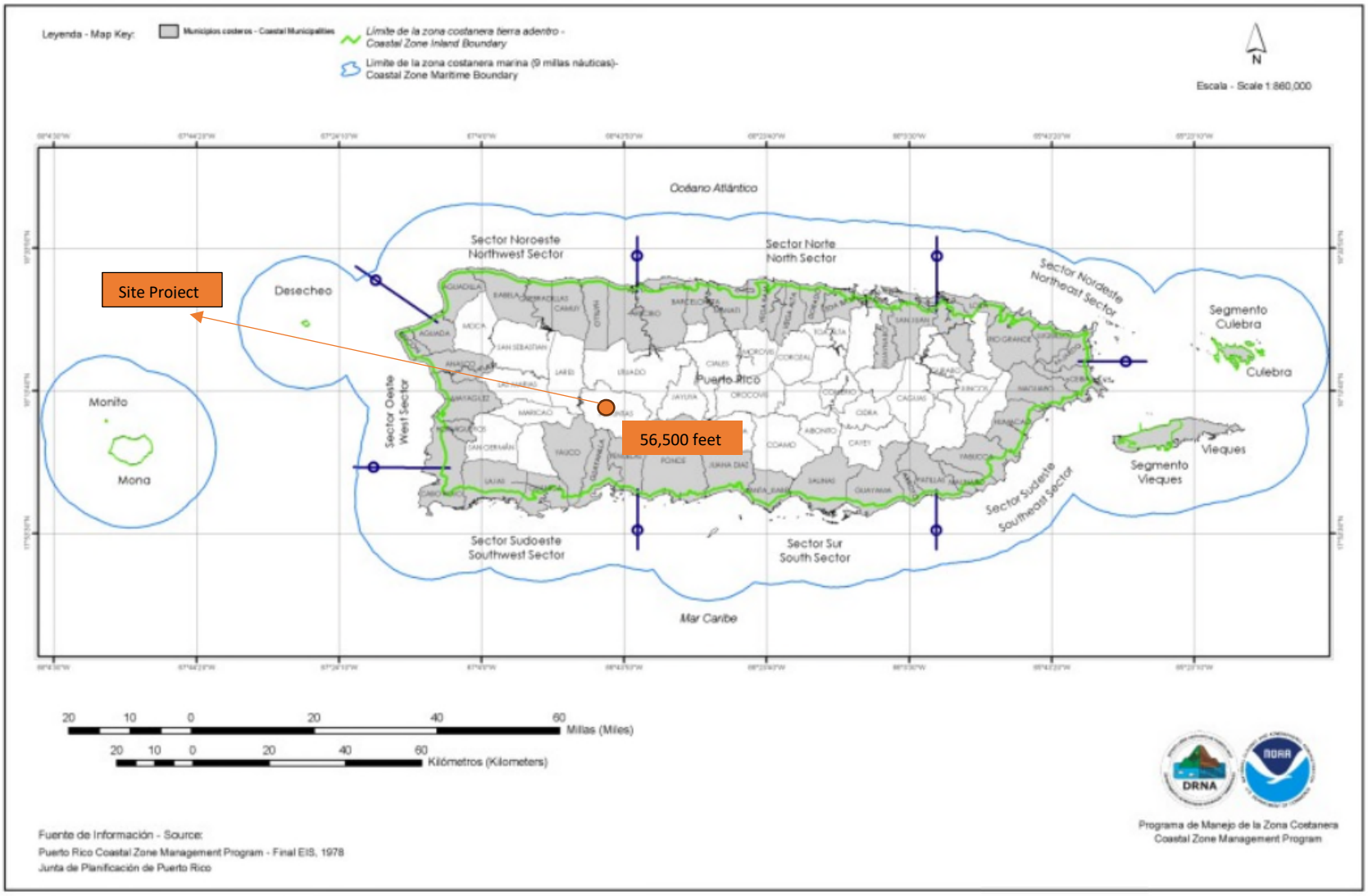


Figure 6: Cosatal Zone Map

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)

Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)

Source: Puerto Rico Costal Zone Management Program - Final EIS

N

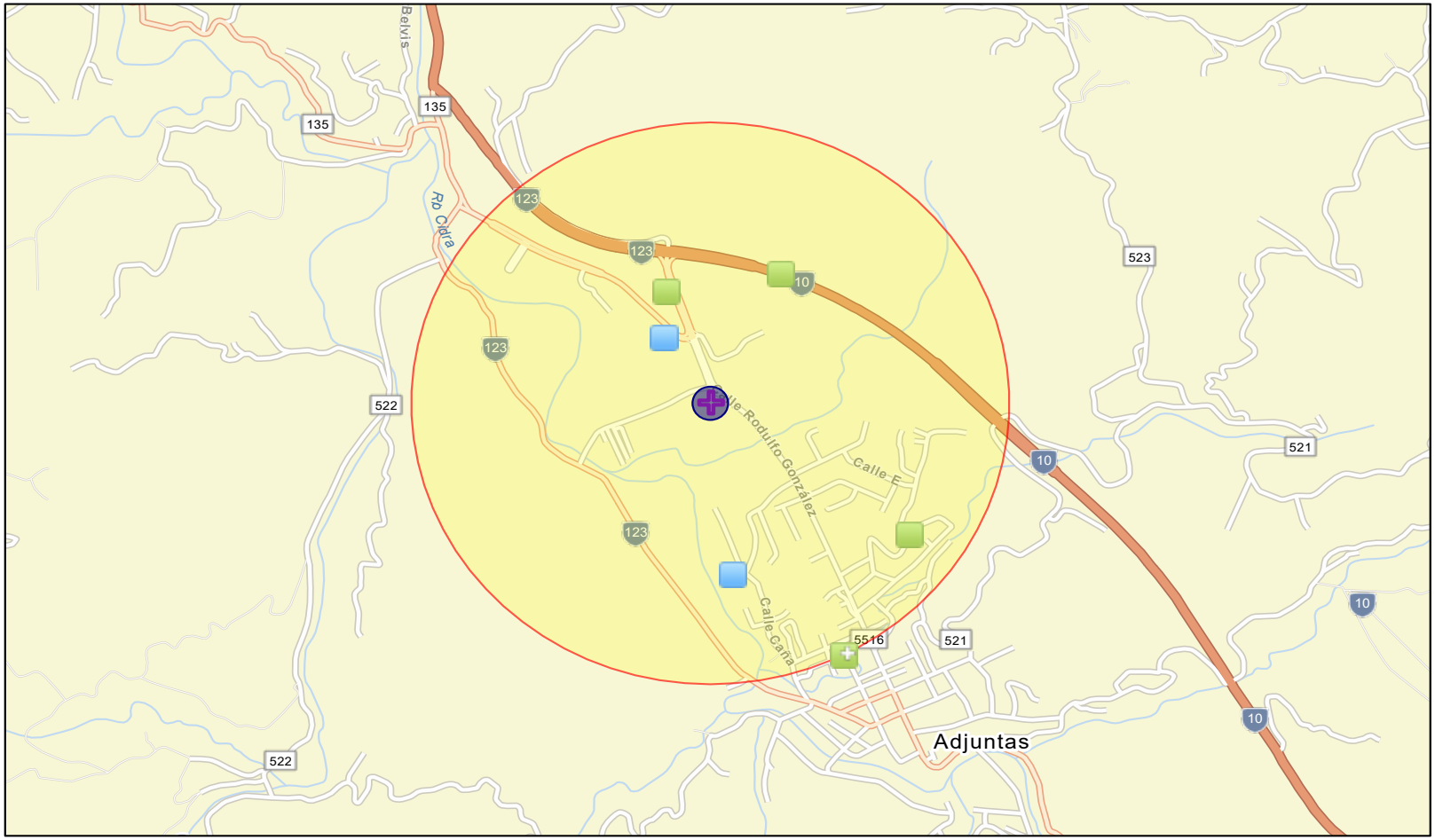


Figure 7: Contimination and Toxics NEPAssist Map

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)
Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)
Source: NEPAssist Mapper, EPA
Website: https://nepassisttool.epa.gov
Author: Tetra Tech Inc.

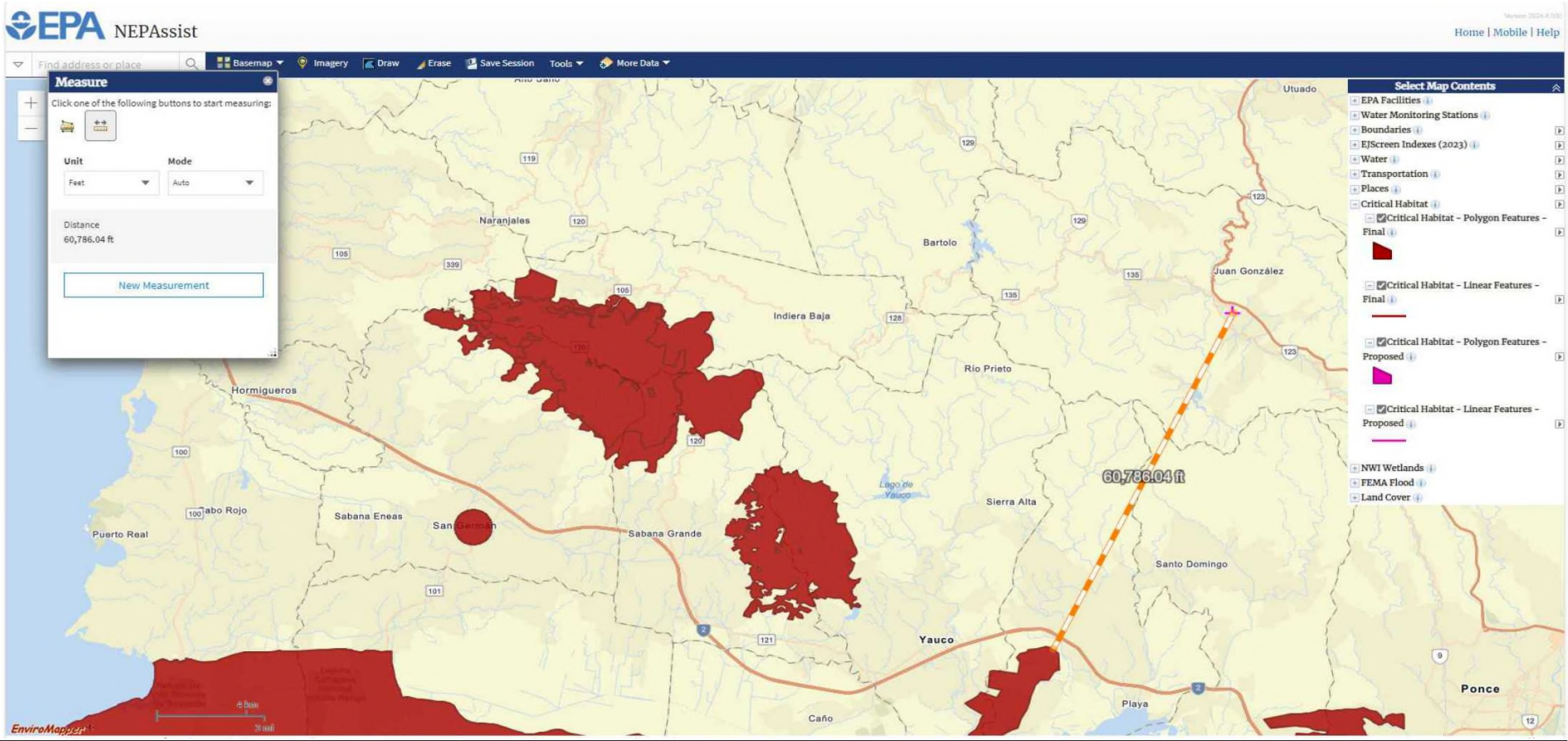


Figure 8: Critical Habitat Map

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)
Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)
Source: USFWS
Website: Critical Habitat for Threatened & Endangered Species [USFWS] (arcgis.com)
Author: Tetra Tech Inc.

N



Legend

- Project Area
- Sole Source Aquifers

TETRA TECH

Source: CRIM 2014. EPA 2020. ESRI 2021.

Author: Genevieve Kaiser

Date: 02/20/24

File Path: C:\projects\TTTDR_PRDOH City Revitalization Prog_105\0228\GIS\maps\PR-CRP-001608_SSA Map.mxd

FIGURE 9: SOLE SOURCE AQUIFERS

APPLICANT ID: PR-CRP-001035

ADDRESS: Rodulfo Gonzalez Street, Adjuntas, PR 00601
Name of Development: Boulevard Luis Munoz Marin.
Parcel Coordinates: 18.171523, -66.728201

N

0 100 200

Miles

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands



April 10, 2024

Wetlands

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

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Figure 10: Wetlands Map

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)
Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)
Source: USFWS NWI
Website: National Wetlands Inventory (usgs.gov)
Author: Tetra Tech Inc.

N

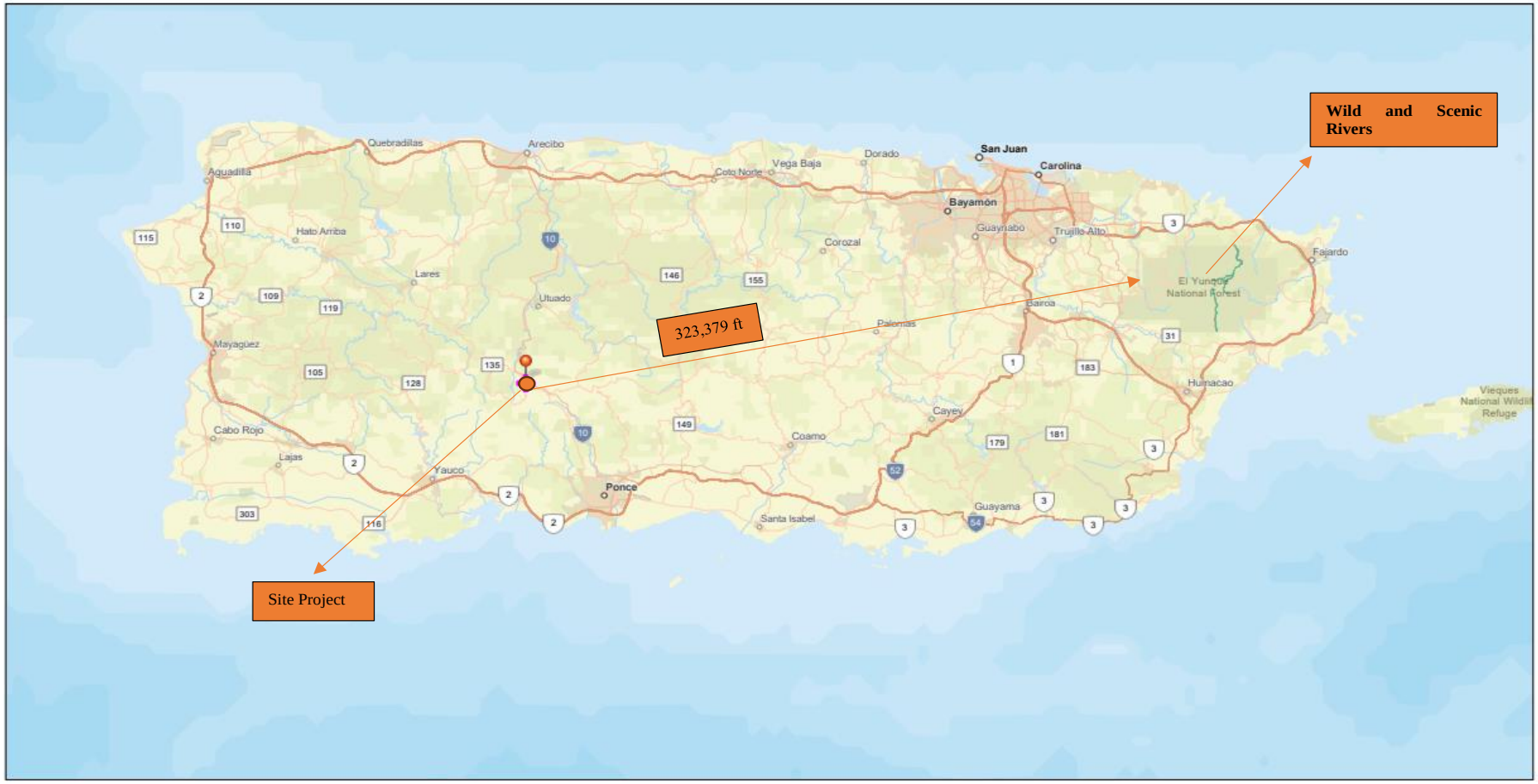


Figure 11: Wild and Scenic Rivers

Project Name: Boulevard Luis Munoz Marin (PR-CRP-001035)
Location: Rodolfo Gonzales Street PR-5516, Adjuntas, PR 00601. (18.171523, -66.728201)
Source: ESRI, HERE, Garmin, USGS, NPS

Author: Tetra Tech Inc.

N

Appendix B

EPA United States Environmental Protection Agency

Green Book

Contact Us

You are here: EPA Home > Green Book > >National Area and County-Level Multi-Pollutant Information >Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

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

Data is current as of May 31, 2023

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/m^3) 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 GO

Important Notes

Download National Dataset: dbf | xls | Data dictionary (PDF)

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	/ /		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	/ /		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	/ /		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	/ /		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23	/ /		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	/ /		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	/ /		Part	52,441	72/137

Important Notes

Detailed Facility Report

Facility Summary

PRASA - ADJUNTAS GARZAS FILTER PLT

PR-10 KM 29.3, ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110007904820

EPA Region: 02

Latitude: 18.175301

Longitude: -66.726171

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
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, (PRR000013813)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007904820					N	18.175301	-66.726171
ICIS		6684114					N	18.175301	-66.726171
RCRAInfo	RCRA	PRR000013813	Other	Inactive ( )			N	18.175301	-66.726171

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007904820	PRASA - ADJUNTAS GARZAS FILTER PLT	PR-10 KM 29.3, ADJUNTAS, PR 00601	Adjuntas Municipio
ICIS		6684114	PRASA - GARZAS FILTER PLT	PR 10 KM 29.3, ADJUNTAS, PR 00601	Adjuntas Municipio
RCRAInfo	RCRA	PRR000013813	PRASA - ADJUNTAS GARZAS FILTER PLT	PR 10 KM 29.3, ADJUNTAS, PR 00601	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000013813	No	04/06/2024	0	04/05/2024

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: PRR000013813)			04/01-06/30/21	07/01-09/30/21	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
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

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.

EJScreen Indexes Shown

Compare to (•) US ( ) State

Index Type ( ) Environmental Justice (•) Supplemental

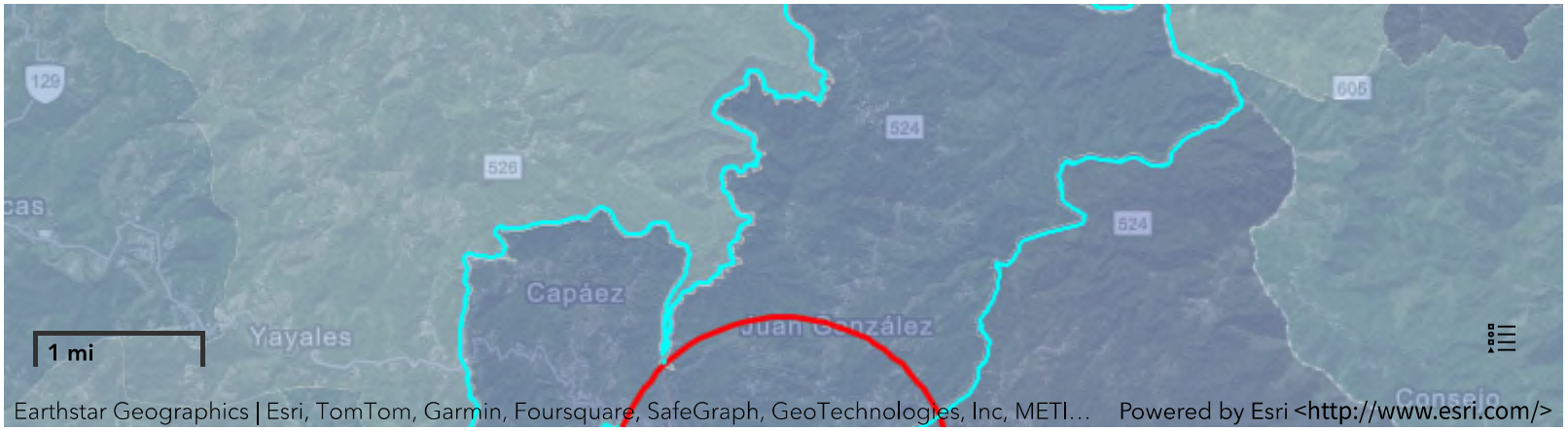
Download Data

Related Reports

EJScreen Community Report

Census Block Group ID: 720019563002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**6**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	56	56
Air Toxics Respiratory Hazard Index	41	42
Toxic Releases to Air	88	99
Traffic Proximity	93	99
Lead Paint	95	98
Risk Management Plan (RMP) Facility Proximity	60	72
Hazardous Waste Proximity	69	71
Superfund Proximity	99	99
Underground Storage Tanks (UST)	93	99
Wastewater Discharge	97	98





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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	4,057
Population Density	1,315/sq.mi.
Housing Units in Area	1,780

General Statistics (ACS (American Community Survey))	
Total Persons	3,338
Percent People of Color	99%
Households in Area	996
Households on Public Assistance	432
Persons With Low Income	3,022
Percent With Low Income	91%

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	253 (6%)
Minors 17 years and younger	1,034 (25%)
Adults 18 years and older	3,022 (74%)
Seniors 65 years and older	663 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,785 (93%)
African-American	119 (3%)
Hispanic-Origin	4,041 (100%)
Asian/Pacific Islander	2 (0%)
American Indian	25 (1%)

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.175301
Center Longitude	-66.726171
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	514 (51.66%)
$15,000 - $25,000	214 (21.51%)
$25,000 - $50,000	231 (23.22%)
$50,000 - $75,000	24 (2.41%)
Greater than $75,000	12 (1.21%)

Race Breakdown (U.S. Census) - Persons (%)	
Other/Multiracial	126 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	474 (20.08%)
9th through 12th Grade	262 (11.1%)
High School Diploma	675 (28.59%)
Some College/2-year	249 (10.55%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	435 (18.42%)

Detailed Facility Report

Facility Summary

BRISTOL MYERS BARCELONETA INC

PR-5518 KM 0.7, ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110007802609

EPA Region: 02

Latitude: 18.17479

Longitude: -66.729481

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
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, (PR0000075564)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007802609					N	18.17479	-66.729481
RCRAInfo	RCRA	PR0000075564	Other	Inactive ( )			N	18.17479	-66.729481

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007802609	BRISTOL MYERS BARCELONETA INC	PR-5518 KM 0.7, ADJUNTAS, PR 00601	Adjuntas Municipio
RCRAInfo	RCRA	PR0000075564	BRISTOL MYERS BARCELONETA INC	RD 5518 KM 0.7, ADJUNTAS, PR 00601	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PR0000075564	No	04/06/2024	0	04/05/2024

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: PR0000075564)			04/01-06/30/21	07/01-09/30/21	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
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

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.

EJScreen Indexes Shown

Compare to (•) US ( ) State

Index Type ( ) Environmental Justice (•) Supplemental

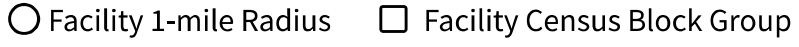
Download Data

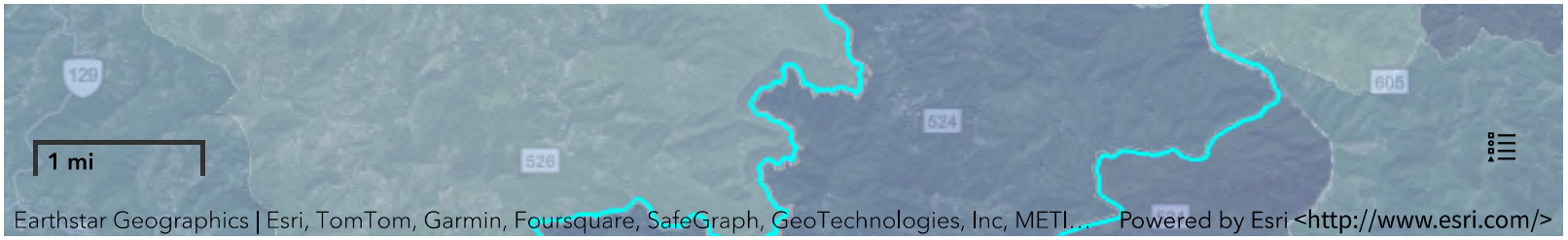
Census Block Group ID: 720019563002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**6**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--

Related Reports

EJScreen Community Report

Census Block Group ID: 720019563002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Air Toxics Cancer Risk	56	56
Air Toxics Respiratory Hazard Index	41	42
Toxic Releases to Air	! 88	! 99
Traffic Proximity	! 93	! 99
Lead Paint	! 95	! 98
Risk Management Plan (RMP) Facility Proximity	60	72
Hazardous Waste Proximity	69	71
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 93	! 99
Wastewater Discharge	! 97	! 98





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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	3,862
Population Density	1,231/sq.mi.
Housing Units in Area	1,703

General Statistics (ACS (American Community Survey))	
Total Persons	3,119
Percent People of Color	99%
Households in Area	916
Households on Public Assistance	402
Persons With Low Income	2,865
Percent With Low Income	92%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.17479
Center Longitude	-66.729481

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	239 (6%)
Minors 17 years and younger	992 (26%)
Adults 18 years and older	2,870 (74%)
Seniors 65 years and older	637 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,598 (93%)
African-American	120 (3%)
Hispanic-Origin	3,848 (100%)
Asian/Pacific Islander	1 (0%)
American Indian	24 (1%)
Other/Multiracial	119 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	451 (20.74%)
9th through 12th Grade	250 (11.49%)

Geography	
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	490 (53.55%)
$15,000 - $25,000	187 (20.44%)
$25,000 - $50,000	211 (23.06%)
$50,000 - $75,000	18 (1.97%)
Greater than $75,000	9 (.98%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	601 (27.63%)
Some College/2-year	248 (11.4%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	375 (17.24%)

Detailed Facility Report

Facility Summary

PRASA ADJUNTAS NUEVA WTP

BAEZ EPHLESS, SYSTEM ENG., ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110009814442

EPA Region: 02

Latitude: 18.173431

Longitude: -66.729557

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	1
Date of Last Compliance Monitoring Activity	07/19/2019
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	7
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)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Non-Major, Permit Effective (PR0025739)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110009814442					N	18.173431	-66.729557
ICIS-NPDES	CWA	PR0025739	Non-Major: NPDES Individual Permit	Effective		11/30/2027	N	18.180278	-66.733889

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110009814442	PRASA ADJUNTAS NUEVA WTP	BAEZ EPHLESS, SYSTEM ENG., ADJUNTAS, PR 00601	
ICIS-NPDES	CWA	PR0025739	PRASA ADJUNTAS NUEVA WTP	BAEZ EPHLESS, SYSTEM ENG., ADJUNTAS, PR 00601	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0025739	4941	Water Supply

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
PR0025739	000	No Applicable Effluent Guidelines

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	*PR0025739*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*05/20/2021*	
CWA	PR0025739	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	07/19/2019	

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	PR0025739	No	12/31/2023	7	04/05/2024

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: PR0025739)					01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	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	01/01-04/05/24
	Facility-Level Status				Violation Identified	Violation Identified	No Violation Identified	Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	Violation Identified	No Violation Identified	Violation Identified
	Quarterly Noncompliance Report History				Reportable Noncompliance	Reportable Noncompliance	Resolved	Other Violation	Other Violation			Other Violation		Resolved	Other Violation		
	Pollutant	Disch Point	Mon Loc	Freq													
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0025739/00310> <https://epa.gov/effluent-charts#pr0025739/00310>	001 - A	Effluent Gross	NMth					208%			**140%**		**140%**			60%
CWA	Turbidity <effluent-charts#pr0025739/00070> <https://epa.gov/effluent-charts#pr0025739/00070>	001 - A	Effluent Gross	NMth										LIMIT VIOLATION	LIMIT VIOLATION		

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	Turbidity <effluent-charts#pr0025739/00070> <https://epa.gov/effluent-charts#pr0025739/00070>	001 - Q	Effluent Gross	NMth				LIMIT VIOLATION									

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/PR0025739	Judicial	02-2011-0007	EPA	PRASA - Puerto Nuevo Regional WWTP et al.	09/15/2015	2	03/22/2024	$0	--	--	--	$534,000,000
										05/23/2016	$0	--	--	--	$700,000,000

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?
210100020402	Rio Grande de Arecibo at Lago Adjuntas Dam	GARZAS RIVER	No	No	Copper, total (as Cu) | Turbidity	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	2020	PRNR7A3	TÚNEL	Impaired - 303(d) Listed - With Restoration Plan	METALS (OTHER THAN MERCURY) | PATHOGENS | TURBIDITY	Not Supporting	Not Supporting	–	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	2019	2020	2021	2022	2023
PR0025739	DMR Pollutant Loadings (lb/year)	1,156	1,484	9,342	133,465	382
PR0025739	DMR Pollutant Loadings - Load Over Limit (lb/year)	33.05	0	0	402	127
PR0025739	DMR Conventional Loadings (lb/year)	--	--	--	1,134	--
PR0025739	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	402	--
PR0025739	DMR Toxic-Weighted Loadings (lb-eq/year)	1.45	0.7237	1.46	7.97	0.2530

NPDES ID	Description	2019	2020	2021	2022	2023
PR0025739	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.

EJScreen Indexes Shown

Compare to ◉ US ○ State

Index Type ○ Environmental Justice ◉ Supplemental

Download Data

Census Block Group ID: 720019563002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**6**	**6**
Particulate Matter 2.5	--	–
Ozone	--	–
Diesel Particulate Matter	0	–
Air Toxics Cancer Risk	56	56
Air Toxics Respiratory Hazard Index	41	42
Toxic Releases to Air	! 88	! 99
Traffic Proximity	! 93	! 99
Lead Paint	! 95	! 98
Risk Management Plan (RMP) Facility Proximity	60	72
Hazardous Waste Proximity	69	71

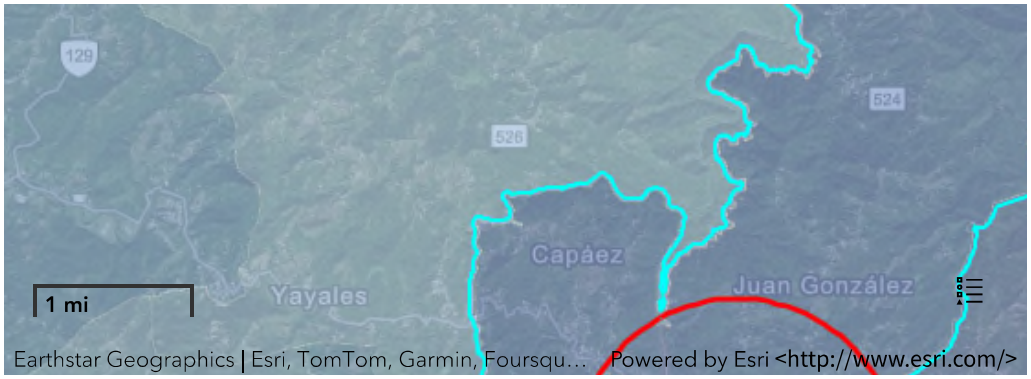
Related Reports

EJScreen Community Report

○ Facility 1-mile Radius ☐ Facility Census Block Group



Census Block Group ID: 720019563002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Superfund Proximity	99	99
Underground Storage Tanks (UST)	93	99
Wastewater Discharge	97	98



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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	4,142
Population Density	1,309/sq.mi.
Housing Units in Area	1,832

General Statistics (ACS (American Community Survey))	
Total Persons	3,418
Percent People of Color	99%
Households in Area	1,015
Households on Public Assistance	452
Persons With Low Income	3,132
Percent With Low Income	92%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.173431

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	255 (6%)
Minors 17 years and younger	1,046 (25%)
Adults 18 years and older	3,097 (75%)
Seniors 65 years and older	686 (17%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,865 (93%)
African-American	125 (3%)
Hispanic-Origin	4,127 (100%)
Asian/Pacific Islander	2 (0%)
American Indian	26 (1%)
Other/Multiracial	124 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	475 (19.8%)

Geography	
Center Longitude	-66.729557
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	546 (53.63%)
$15,000 - $25,000	208 (20.43%)
$25,000 - $50,000	228 (22.4%)
$50,000 - $75,000	24 (2.36%)
Greater than $75,000	12 (1.18%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
9th through 12th Grade	268 (11.17%)
High School Diploma	658 (27.43%)
Some College/2-year	281 (11.71%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	435 (18.13%)

Detailed Facility Report

Facility Summary

ADJUNTAS WASTEWATER TREATMENT PLANT

CANAS ST – AT THE END, ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110013695983

EPA Region: 02

Latitude: 18.166461

Longitude: -66.727561

Locational Data Source: FRS

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	2
Date of Last Compliance Monitoring Activity	02/05/2020
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	2
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): Non-Major, Permit Admin Continued (PR0020214)

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689224)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110013695983					N	18.166461	-66.727561
ICIS		32001					N	18.166347	-66.72823
ICIS		2655223					N	18.166347	-66.72823
ICIS-NPDES	CWA	PR0020214	Non-Major: NPDES Individual Permit	Admin Continued	POTW	01/31/2024	N	18.166347	-66.72823
RCRAInfo	RCRA	PRD000689224	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110013695983	ADJUNTAS WASTEWATER TREATMENT PLANT	CANAS ST - AT THE END, ADJUNTAS, PR 00601	Adjuntas Municipio
ICIS		32001	ADJUNTAS STP	CANAS ST AT THE END, ADJUNTAS, PR 00601	Adjuntas Municipio
ICIS		2655223	PRASA ADJUNTAS STP	CANSAS ST AT THE END, ADJUNTAS, PR 00601	Adjuntas Municipio
ICIS-NPDES	CWA	PR0020214	PRASA ADJUNTAS WWTP	END OF CANAS STREET /FIN DE CALLE CANAS, PONCE, PR 00601	Adjuntas Municipio
RCRAInfo	RCRA	PRD000689224	ADJUNTAS STP	CANAS ST AT THE END, ADJUNTAS, PR 00601	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0020214	4952	Sewerage Systems

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000689224	22132	Sewage Treatment Facilities

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	*PR0020214*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*02/16/2022*	
CWA	*PR0020214*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*02/24/2021*	
CWA	PR0020214	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	02/05/2020	
CWA	PR0020214	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	08/15/2019	

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	PR0020214	No	12/31/2023	2	04/05/2024
RCRA	PRD000689224	No	04/06/2024	0	04/05/2024

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: PR0020214)					**01/01-03/31/21**	**04/01-06/30/21**	**07/01-09/30/21**	**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**	**01/01-04/05/24**
	Facility-Level Status				Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Violation Identified
	Quarterly Noncompliance Report History				Reportable Noncompliance	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	Resolved - Pending	
	Pollutant	**Disch Point**	**Mon Loc**	**Freq**													

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	BOD, 5-day, 20 deg. C <effluent-charts#pr0020214/00310> <https://epa.gov/effluent-charts#pr0020214/00310>	001 - A	Effluent Gross	Mthly								**120%**	**163%**	**90%**			
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0020214/00310> <https://epa.gov/effluent-charts#pr0020214/00310>	001 - A	Effluent Gross	NMth			16%					113%	102%	31%			
CWA	BOD, 5-day, percent removal <effluent-charts#pr0020214/81010> <https://epa.gov/effluent-charts#pr0020214/81010>	001 - A	Percent Removal	Neither			80%					200%	340%	153%	13%		
CWA	Chlorine, total residual <effluent-charts#pr0020214/50060> <https://epa.gov/effluent-charts#pr0020214/50060>	001 - A	Effluent Gross	NMth						991%							

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	Cyanide, free available <effluent-charts#pr0020214/51173> <https://epa.gov/effluent-charts#pr0020214/51173>	001 - Q	Effluent Gross	NMth												377%	
CWA	Oxygen, dissolved [DO] <effluent-charts#pr0020214/00300> <https://epa.gov/effluent-charts#pr0020214/00300>	001 - A	Effluent Gross	Neither	11%												
CWA	Phosphorus, total [as P] <effluent-charts#pr0020214/00665> <https://epa.gov/effluent-charts#pr0020214/00665>	001 - A	Effluent Gross	NMth												1%	
CWA	Solids, suspended percent removal <effluent-charts#pr0020214/81011> <https://epa.gov/effluent-charts#pr0020214/81011>	001 - A	Percent Removal	Neither			140%					80%	580%	293%	20%		

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	Solids, total suspended <effluent-charts#pr0020214/00530> <https://epa.gov/effluent-charts#pr0020214/00530>	001 - A	Effluent Gross	Mthly			23%					33%	**333%**	**153%**			
CWA	Solids, total suspended <effluent-charts#pr0020214/00530> <https://epa.gov/effluent-charts#pr0020214/00530>	001 - A	Effluent Gross	NMth			49%					47%	233%	89%	16%		
CWA	Surfactants [MBAS] <effluent-charts#pr0020214/38260> <https://epa.gov/effluent-charts#pr0020214/38260>	001 - A	Effluent Gross	NMth			219%			**106%**		**1800%**	**1240%**	**1610%**			60%

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: PRD000689224)			**04/01-06/30/21**	**07/01-09/30/21**	**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**
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	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/PR0020214	Judicial	02-2011-0007	EPA	PRASA - Puerto Nuevo Regional WWTP et al.	09/15/2015	2	03/22/2024	$0	--	--	--	$534,000,000
										05/23/2016	$0	--	--	--	$700,000,000

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?
210100020402	Rio Grande de Arecibo at Lago Adjuntas Dam	CIDRA RIVER, RIO CIDRA	No	No	Copper, total (as Cu) | Enterococci | Solids, suspended percent removal | Solids, total suspended | Turbidity	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	2020	PRNR7A3	TÚNEL	Impaired - 303(d) Listed - With Restoration Plan	METALS (OTHER THAN MERCURY) | PATHOGENS | TURBIDITY	Not Supporting	Not Supporting	--	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	2019	2020	2021	2022	2023
PR0020214	DMR Pollutant Loadings (lb/year)	57,730	104,094	43,411	64,058	83,419
PR0020214	DMR Pollutant Loadings - Load Over Limit (lb/year)	18.73	0.0069	14.62	206	12,426
PR0020214	DMR Conventional Loadings (lb/year)	--	--	--	25,380	–
PR0020214	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	0	–
PR0020214	DMR Toxic-Weighted Loadings (lb-eq/year)	34.44	6.57	2.36	10.06	4.44
PR0020214	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	1.50	0.7571	0	3.90	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.

EJScreen Indexes Shown

Compare to (•) US ( ) State

Index Type ( ) Environmental Justice (•) Supplemental

Download Data

Census Block Group ID: 720019566002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**4**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	55	56
Air Toxics Respiratory Hazard Index	38	42
Toxic Releases to Air	79	! 99
Traffic Proximity	! 99	! 99
Lead Paint	! 98	! 98
Risk Management Plan (RMP) Facility Proximity	66	75
Hazardous Waste Proximity	62	71
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	0	! 99

Related Reports

EJScreen Community Report

( ) Facility 1-mile Radius [ ] Facility Census Block Group



Census Block Group ID: 720019566002	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Wastewater Discharge	! 98	! 98



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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	5,199
Population Density	1,665/sq.mi.
Housing Units in Area	2,295

General Statistics (ACS (American Community Survey))	
Total Persons	4,456
Percent People of Color	98%
Households in Area	1,357
Households on Public Assistance	627
Persons With Low Income	4,060
Percent With Low Income	91%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.166461
Center Longitude	-66.727561

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	313 (6%)
Minors 17 years and younger	1,295 (25%)
Adults 18 years and older	3,905 (75%)
Seniors 65 years and older	826 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	4,862 (94%)
African-American	142 (3%)
Hispanic-Origin	5,174 (100%)
Asian/Pacific Islander	2 (0%)
American Indian	28 (1%)
Other/Multiracial	166 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	546 (17.26%)
9th through 12th Grade	320 (10.12%)

Geography	
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	742 (54.64%)
$15,000 - $25,000	273 (20.1%)
$25,000 - $50,000	282 (20.77%)
$50,000 - $75,000	44 (3.24%)
Greater than $75,000	17 (1.25%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	858 (27.13%)
Some College/2-year	397 (12.55%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	636 (20.11%)

Detailed Facility Report

Facility Summary

DEPT OF ED - JOSE EMILIO LUGO SCH

CALLE FRANCISCO PIETRI 75, ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110004888275

EPA Region: 02

Latitude: 18.16764

Longitude: -66.72247

Locational Data Source: FRS

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, (PR0000622555)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004888275					N	18.16764	-66.72247
RCRAInfo	RCRA	PR0000622555	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004888275	DEPT OF ED - JOSE EMILIO LUGO SCH	CALLE FRANCISCO PIETRI 75, ADJUNTAS, PR 00601	Adjuntas Municipio
RCRAInfo	RCRA	PR0000622555	DEPT OF ED - JOSE EMILIO LUGO SCH	CALLE FRANCISCO PIETRI 75, ADJUNTAS, PR 00601-2252	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PR0000622555	No	04/06/2024	0	04/05/2024

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: PR0000622555)			04/01-06/30/21	07/01-09/30/21	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
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

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.

EJScreen Indexes Shown

Compare to (•) US ( ) State

Index Type ( ) Environmental Justice (•) Supplemental

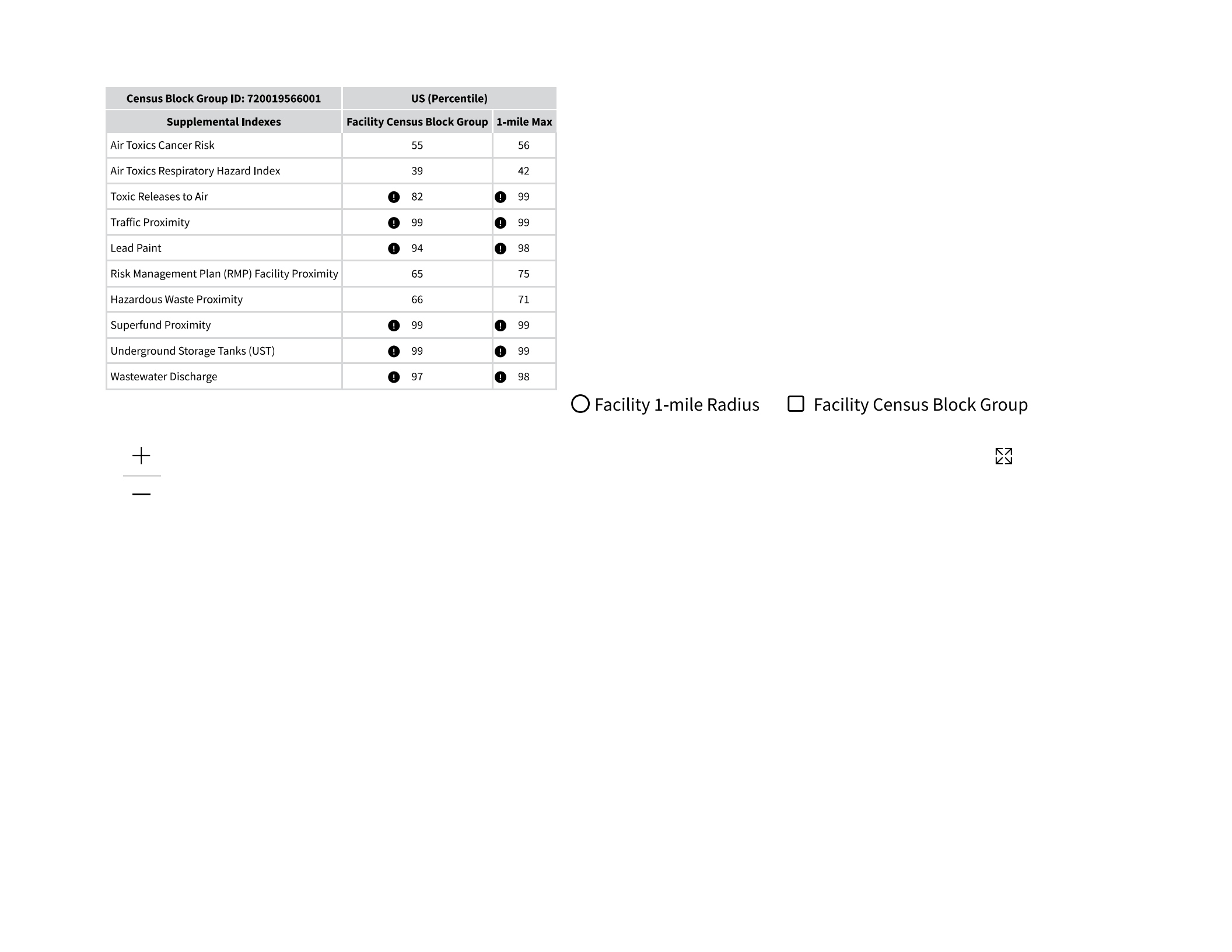
Download Data

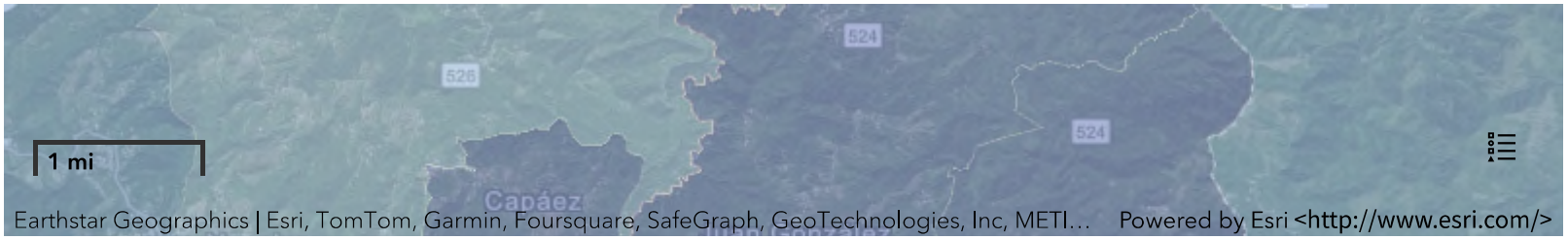
Census Block Group ID: 720019566001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**6**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--

Related Reports

EJScreen Community Report

Census Block Group ID: 720019566001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Air Toxics Cancer Risk	55	56
Air Toxics Respiratory Hazard Index	39	42
Toxic Releases to Air	! 82	! 99
Traffic Proximity	! 99	! 99
Lead Paint	! 94	! 98
Risk Management Plan (RMP) Facility Proximity	65	75
Hazardous Waste Proximity	66	71
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 99	! 99
Wastewater Discharge	! 97	! 98





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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	5,432
Population Density	1,732/sq.mi.
Housing Units in Area	2,382

General Statistics (ACS (American Community Survey))	
Total Persons	4,636
Percent People of Color	98%
Households in Area	1,415
Households on Public Assistance	642
Persons With Low Income	4,194
Percent With Low Income	91%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.16764
Center Longitude	-66.72247

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	326 (6%)
Minors 17 years and younger	1,354 (25%)
Adults 18 years and older	4,078 (75%)
Seniors 65 years and older	849 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,079 (94%)
African-American	142 (3%)
Hispanic-Origin	5,406 (100%)
Asian/Pacific Islander	2 (0%)
American Indian	28 (1%)
Other/Multiracial	181 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	563 (17.1%)
9th through 12th Grade	327 (9.93%)

Geography	
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	754 (53.32%)
$15,000 - $25,000	294 (20.79%)
$25,000 - $50,000	300 (21.22%)
$50,000 - $75,000	48 (3.39%)
Greater than $75,000	18 (1.27%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	916 (27.82%)
Some College/2-year	396 (12.03%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	676 (20.53%)

Detailed Facility Report

Facility Summary

PRASA

101 SAN JOAQUIN ST, ADJUNTAS, PR 00601

FRS (Facility Registry Service) ID: 110004894785

EPA Region: 02

Latitude: 18.16409

Longitude: -66.72436

Locational Data Source: FRS

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, (PRR000010710)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

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

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004894785					N	18.16409	-66.72436
RCRAInfo	RCRA	PRR000010710	Other	Inactive ( )			N	18.163152	-66.723862

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004894785	PRASA	101 SAN JOAQUIN ST, ADJUNTAS, PR 00601	Adjuntas Municipio
RCRAInfo	RCRA	PRR000010710	PR AQUEDUCT & SEWER AUTH	101 SAN JOAQUIN ST, ADJUNTAS, PR 00601	Adjuntas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000010710	No	04/06/2024	0	04/05/2024

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: PRR000010710)			04/01-06/30/21	07/01-09/30/21	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
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency												

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

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.

EJScreen Indexes Shown

Compare to (•) US ( ) State

Index Type ( ) Environmental Justice (•) Supplemental

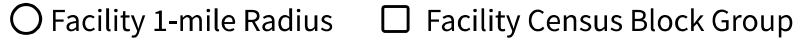
Download Data

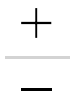
Census Block Group ID: 720019566002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**4**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--

Related Reports

EJScreen Community Report

Census Block Group ID: 720019566002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Air Toxics Cancer Risk	55	56
Air Toxics Respiratory Hazard Index	38	42
Toxic Releases to Air	79	! 99
Traffic Proximity	! 99	! 99
Lead Paint	! 98	! 98
Risk Management Plan (RMP) Facility Proximity	66	75
Hazardous Waste Proximity	62	71
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	0	! 99
Wastewater Discharge	! 98	! 98









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 2010 U.S. Census and 2017 - 2021 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) 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 (U.S. Census)	
Total Persons	5,557
Population Density	1,796/sq.mi.
Housing Units in Area	2,429

General Statistics (ACS (American Community Survey))	
Total Persons	4,532
Percent People of Color	98%
Households in Area	1,385
Households on Public Assistance	639
Persons With Low Income	4,113
Percent With Low Income	91%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.16409
Center Longitude	-66.72436

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	331 (6%)
Minors 17 years and younger	1,381 (25%)
Adults 18 years and older	4,175 (75%)
Seniors 65 years and older	863 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,187 (93%)
African-American	147 (3%)
Hispanic-Origin	5,529 (100%)
Asian/Pacific Islander	2 (0%)
American Indian	28 (1%)
Other/Multiracial	192 (3%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	550 (17.04%)
9th through 12th Grade	321 (9.95%)

Geography	
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	744 (53.72%)
$15,000 - $25,000	286 (20.65%)
$25,000 - $50,000	291 (21.01%)
$50,000 - $75,000	47 (3.39%)
Greater than $75,000	17 (1.23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
High School Diploma	886 (27.46%)
Some College/2-year	397 (12.3%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	658 (20.39%)

GLOBAL ENVIRONMENTAL SERVICES LLC

Asbestos & Lead Based Paint Survey and Project Designer Firm / Environmental Consultants/ Industrial Hygiene/
Indoor Air Quality / DNER Permits / EPA Permits & Certifications ***EM@IL: globalespr@gmail.com***
POSTAL ADDRESS: RR8 BOX 1995 PMB 313 BAYAMON, PR 00956 Phones: 787-994-2203 . 787-607-8965

Asbestos Containing Materials Inspection



SAMPLING CONDUCTED AT:
POOL AREA
Boulevard Luis Muñoz Marin- PR-CRP-001035

Located at Rodulfo Gonzalez Street in Adjuntas, PR

GES Project # -2024-e-200

JUNE 2024

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June 15, 2024

Eng. Jorge L. Perez Ruiz
President
TCM Group
2004 Road PR-506 Caribe Office Cener Ste. 205
Coto Laurel, PR 00780

Affair: Asbestos Containing Materials Inspection in Pool Area- Boulevard Luis Muñoz Marin PR-CRP-001035 in located at Rodulfo Gonzalez Street in Adjuntas, PR

Dear Eng. Perez:

Global Environmental Services LLC (GES) was contracted to perform a Asbestos Containing Materials Inspection at reference project **(Pool area only).**

Asbestos Containing Building Material (ACBM) is defined as any material which contains more that 1% percent Asbestos.

The ACM Inspection was conducted on June 11, 2024 by Mr. Angel O. Ortega, Department of Natural and Environmental Resources of Puerto Rico (DNER) certified Asbestos Inspector # ASB-0424-0116-SI with enough experience.

During the Inspection, Inspector **NO suspected Asbestos Containing Materials**. The asbestos inspection work will be performed by Asbestos Hazards Emergency Response Act (AHERA) accredited asbestos inspectors under the PR Environmental Quality Board accreditation program. The inspection will be conducted in accordance with EPA's "Guidance for Controlling Asbestos Containing Materials in Buildings (EPA 560/5-85/024)". Asbestos Containing Materials Inspection and bulk sampling procedures to be implemented was based on the guidelines established by the ASTM E2356-14 Standard Practice for Comprehensive Building Asbestos Survey. Samples were analyzed by PLM using dispersion staining techniques in accordance with US EPA Method: 600/M4-82-020 of Dec. 1982 and 600/R-93/116 of July 93.

Global Environmental Services LLC **certifies asbestos free in reference project.**

The Asbestos Containing Materials inspection was performed based on DNER/ NESHAP regulations and protocol according to the following scenario:

a. **The project is divided one functional space.**
b. **Physical and hazard assessment of suspected asbestos containing materials was performed.**
c. **Samples were collected according to homogenous areas.(Does not apply).**
d. **Samples sent to NVLAP Accredited Laboratory. (Does not apply).**
e. **Samples were analyzed by PLM method, in accordance to EPA recommended procedures. (Does not apply).**

Thank you for the opportunity, any questions, please call 787-994-2203 and 787-607-8965 or email globalespr@gmail.com.

Cordially;



Mr. Angel O. Ortega, IS
Asbestos Inspector-ASB-0424-0116-SI
Environmental Consultant
President

APPENDIX I

CERTIFICATIONS GRANTED BY THE DEPARTMENT OF NATURAL AND ENVIRONMENTAL RESOURCES OF PUERTO RICO

ASBESTOS INSPECTOR CERTIFICATION



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ángel O. Ortega Coreano

Inspector

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

ASB-0424-0116-SI
Número de Registro

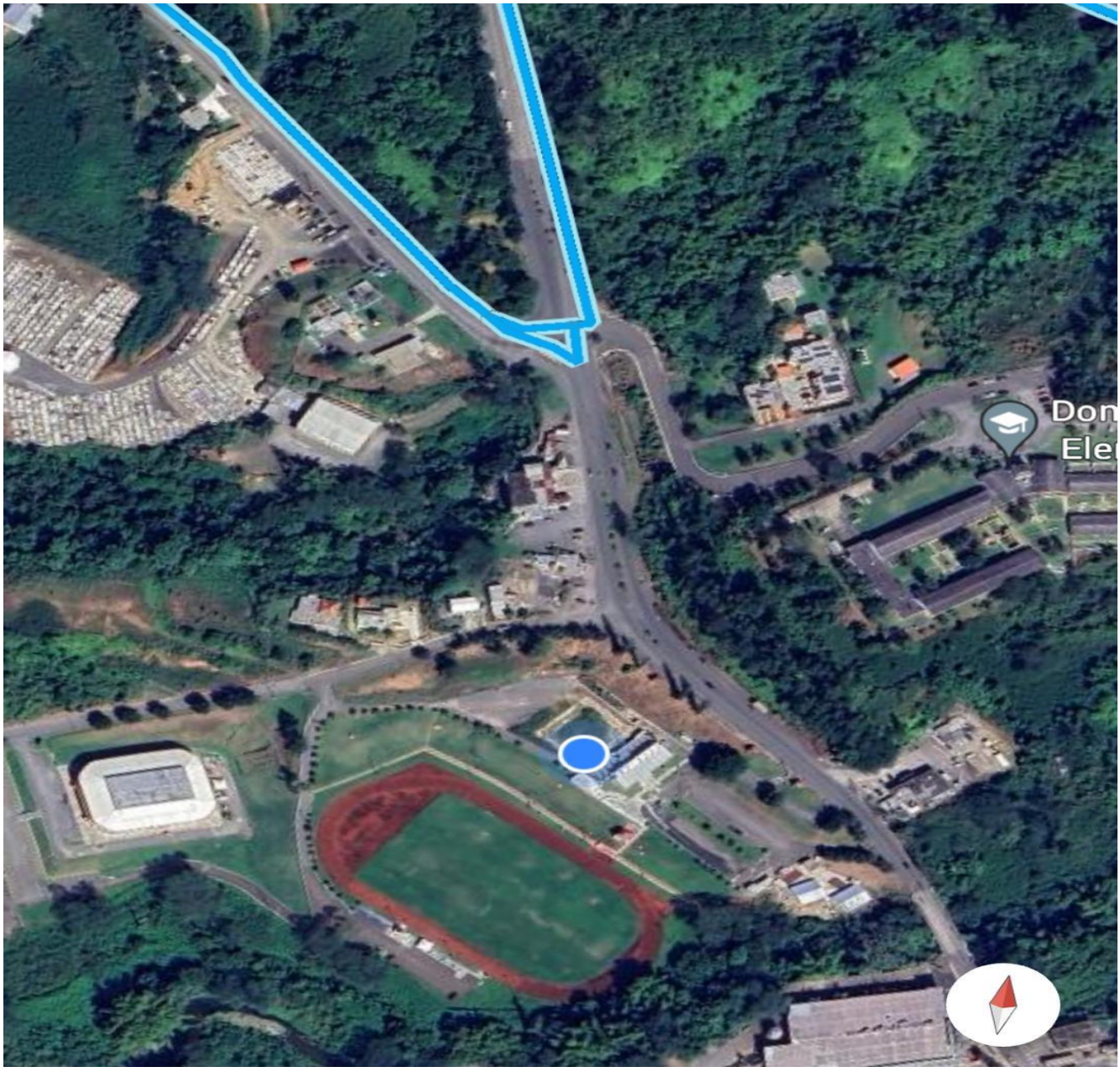
16-mar-2025
Fecha de vencimiento

Firma Autorizada - Departamento Recursos Naturales y Ambientales

APPENDIX II

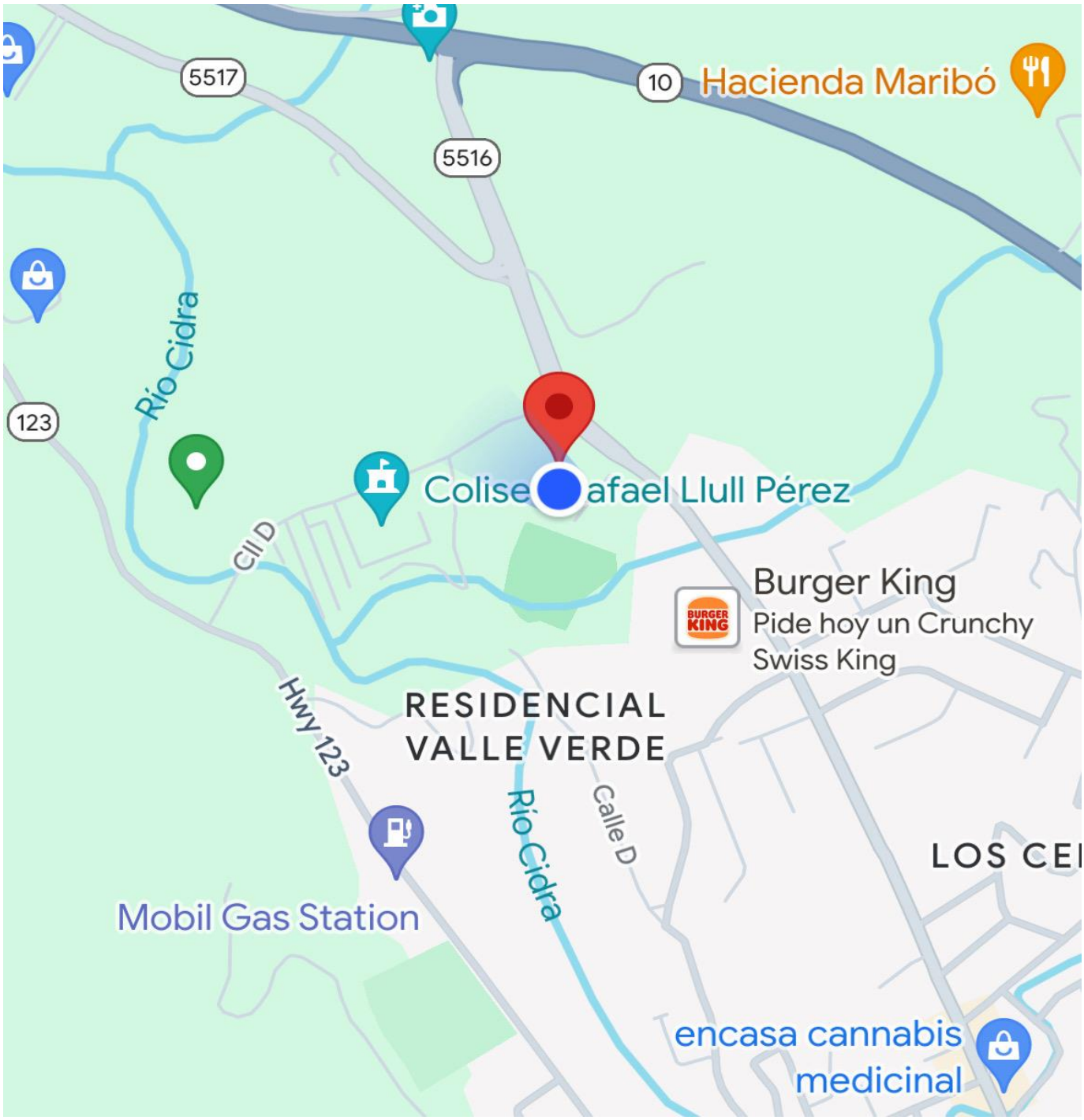
SITE AREAS & LAYOUT

SITE AREA

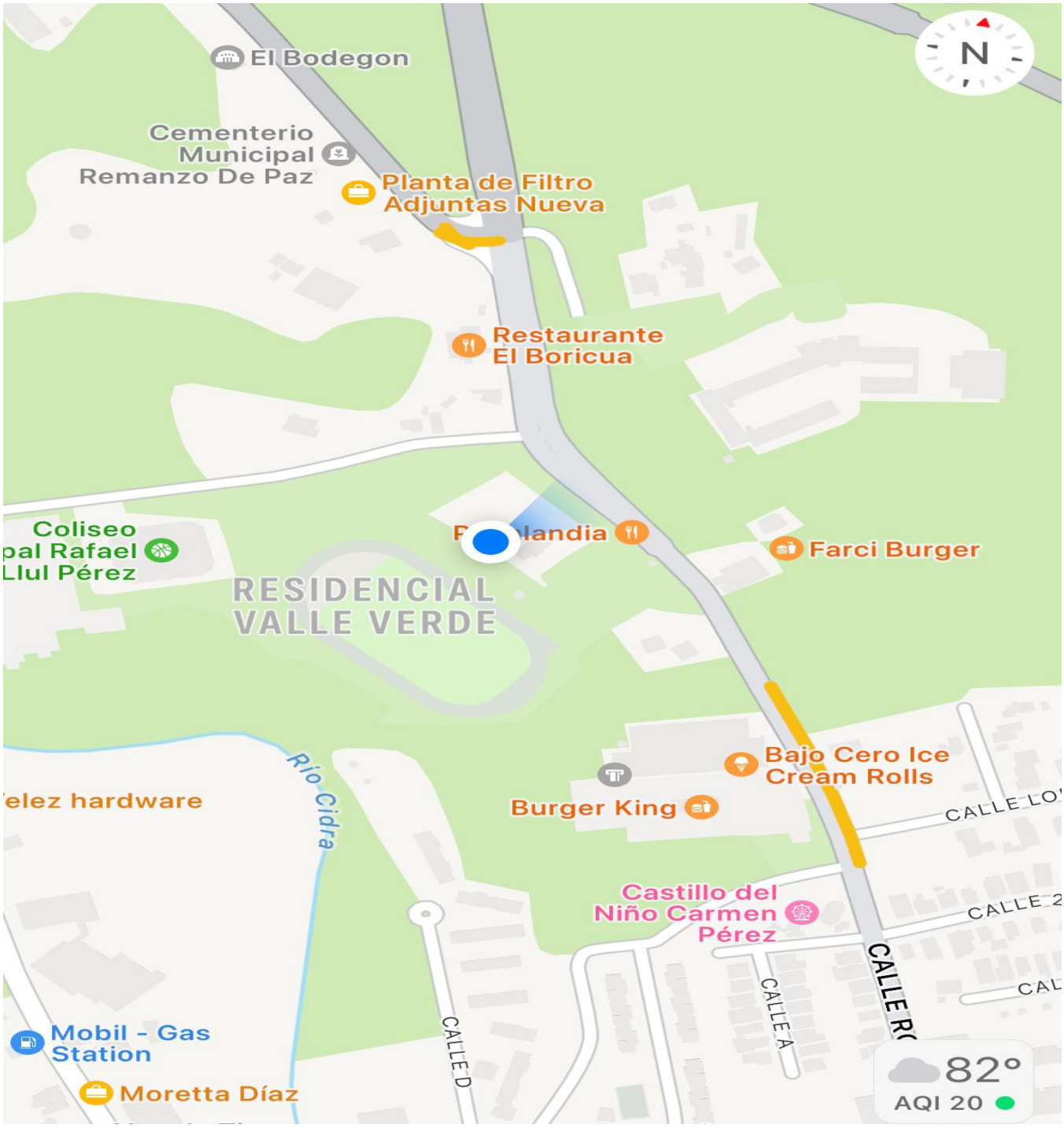


COORDINATES TO GET TO THE PROJECT:
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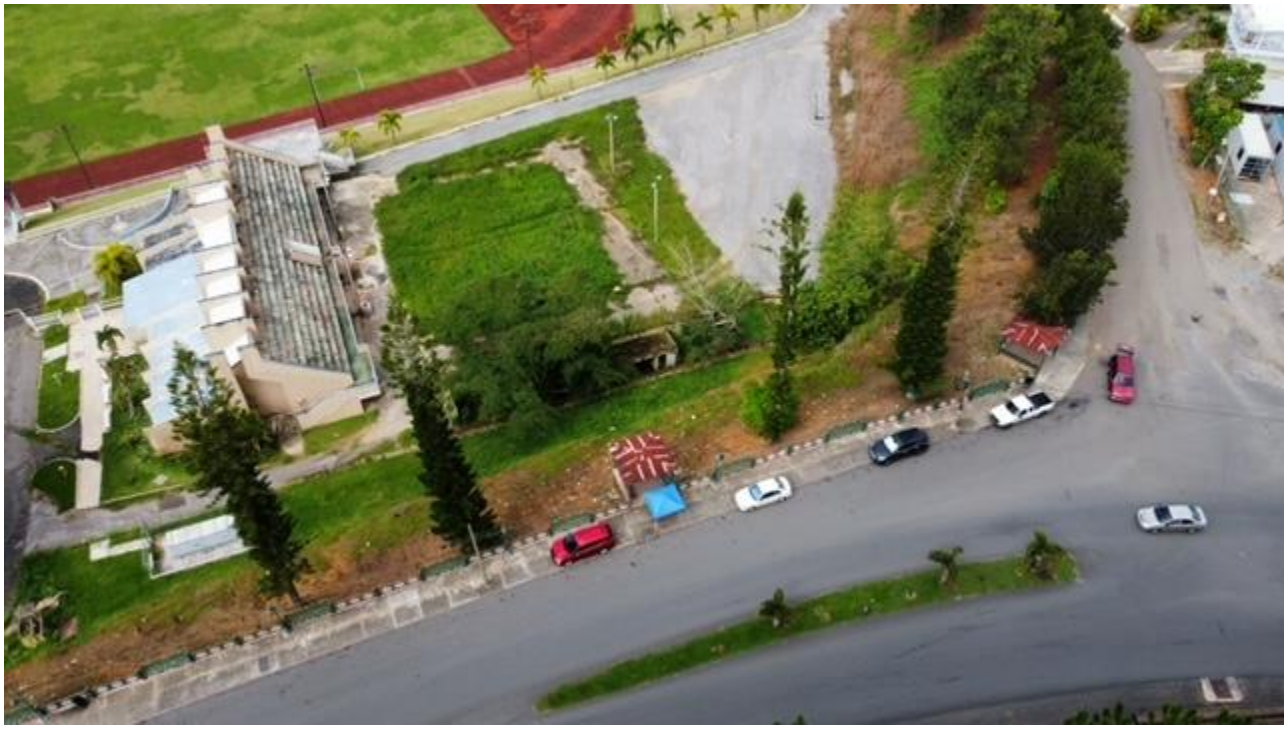
SITE AREA


5517
10
Hacienda Maribó
5516
Río Cidra
123
Colise afael Llull Pérez
Cll D
Burger King
Pide hoy un Crunchy
Swiss King
RESIDENCIAL
VALLE VERDE
Hwy 123
Río Cidra
Calle D
LOS CE
Mobil Gas Station
encasa cannabis
medicinal

SITE AREA


El Bodegon
N
Cementerio Municipal Remanzo De Paz
Planta de Filtro Adjuntas Nueva
Restaurante El Boricua
Coliseo pal Rafael Llul Pérez
landia
Farci Burger
RESIDENCIAL VALLE VERDE
Río Cidra
elez hardware
Bajo Cero Ice Cream Rolls
Burger King
CALLE LO
Castillo del Niño Carmen Pérez
CALLE 2
CALLE A
CALLE D
Mobil - Gas Station
Moretta Díaz
82°
AQI 20

PROJECT- AERIAL VIEW





APPENDIX III

ASBESTOS NEGATIVE CERTIFICATION

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

Área de Calidad de Agua

OGPe Oficina de Gerencia de Permisos

Forma PGC-009

CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS A DEMOLERSE

(Deberá completarse en letra de molde o impresa)

NUM. PERMISO: _____

Yo, Angel O. Ortega (Nombre), mayor de edad, casado (Estado Civil), y vecino de Bayamón (Municipio)

Dirección Postal RR8 Box 1995 PMB 313 Bayamón, PR 00956 (Pueblo) (Zip Code)

Teléfonos: Residencial (787) 607 - 8965 Oficina (787) 994 - 2203 Ext._____
Fax (_____) _____ - _____

Certifico que:

1. La estructura localizada en (Area de la Piscina) en el proyecto Boulevard Luis Muñoz Marin PR-CRP-001035 Calle Rodulfo Gonzalez en Adjuntas, PR, la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Bayamón (Municipio) de Puerto Rico, hoy día 12 de junio de 2024

ASB-0424-0116-SI
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.

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

PUERTO RICO VERDE

APPENDIX IV

CONCLUSION

After evaluating the above mentioned project, our company Global Environmental Services LLC certifies Asbestos free for the **Pool Area only – Boulevard Luis Muñoz Marin PR-CRP-001035** located at Rodulfo Gonzalez Street in Adjuntas, PR of June 12, 2024.

Appendix D

Transmittal Letter

January 8, 2024

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: 2024.02.01 07:52:03 -04'00'

LOURDES MENA Digitally signed by LOURDES MENA Date: 2024.02.06 09:23:11 -04'00' Adobe Acrobat version: 2023.008.20470

Acting Caribbean ES Field Supervisor

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

RE: USFWS Endangered Species Act Certifications – December 2023

We are submitting the following Self-Certifications for projects under the CDBG-DR Re-Grow PR Urban-Rural Agriculture Program, Small Business Financing Program, Workforce Training 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-000518	Campo de Soccer
PR-CRP-000553	Avenida Georgetti Improvement Project
PR-CRP-000735	Boulevard Toa Alta Heights: Making a Complete Street
PR-CRP-001035	Boulevard Luis Muñoz Marín
PR-RGRW-00230	María D. González Luciano
PR-RGRW-00301	La Plata Farm, Inc.
PR-RGRW-00382	GAFC Farms LLC
PR-RGRW-00455	Centro Agropecuario de Cataño, Inc.
PR-RGRW-01021	Sanabella LLC
PR-RGRW-01270	SAN JUAN DISTILLERS LLC
PR-RGRW-04081	José M. Cruz DBA Agricultor José M Cruz
PR-SBF-05917	Furniture Assembly Expert LLC
PR-SBF-07066	Joaquín Gamboa Medina HNC Pikadera
PR-SBF-07411	José A. Alicea Piñeiro
PR-SBF-07601	LA BARBERIA DE RONALD
PR-SBF-08132	Neyza E. Garay Rivera hnc Dra. Neyza E. Garay
PR-SBF-08319	NEMESIS TRANSPORT
PR-SBF-08372	La Curvita Colmado, Bar & Restaurant

PR-SBF-08909	Esther Amador hnc Esther Fashion
PR-SBF-08914	Jaime O. Rivera Sotomayor DBA Bufete Rivera Sotomayor
PR-SBF-09281	Jorge Varela Dental Office, PSC
PR-SBF-09339	LABORATORIO CLÍNICO PRINCIPAL SAN FERNÁNDO, INC.
PR-WFT-00071D	Fundación Biblioteca Rafael Hernández Colón

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
Office of Disaster Recovery

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.

Puerto Rico Department of Housing (PRDOH) certifies that the following project **Boulevard Luis Muñoz Marín (PR-CRP-001035)**, consisting of reconfiguration of the gazebo areas into spaces for food trucks, installation of solar lighting, relocation of sanitary restrooms, rehabilitation of the swimming pool, construction of children recreative area, recondition of the green area, and installation of fixed urban mobiliary; located by Rodulfo González St. and D St., Adjuntas, Puerto Rico 00601, coordinates 18.171523, -66.728201, complies with:

Check	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.

Dec. 28, 2023

Date

Ángel G. López-Guzmán
Deputy Director
Permits and Environmental Compliance Division

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

Google Maps

18°10'17.5"N 66°43'41.5"W

PR-CRP-001035



Imagery ©2023 Airbus, Imagery ©2023 Airbus, CNES / Airbus, Maxar Technologies, U.S. Geological Survey, Map data ©2023 Google 100 m

Self-Certification

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

Endangered Species Act Certification

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Ángel G. López-Guzmán
Deputy Director
Permits and Environmental Compliance Division

Date

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

Attachment 1

Maps

Google Maps

18°10'17.5"N 66°43'41.5"W

PR-CRP-001035



Imagery ©2023 Airbus, Imagery ©2023 Airbus, CNES / Airbus, Maxar Technologies, U.S. Geological Survey, Map data ©2023 Google 100 m

Critical Habitat for Threatened & Endangered Species [USFWS]

Final Polygon Features

Final Linear Features

Proposed Polygon Features

Proposed Linear Features



A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

Maxar

U.S. Fish and Wildlife Service

National Wetlands Inventory

PR-CRP-001035



November 17, 2023

Wetlands

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

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

Attachment 2

IPaC Report

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

IPaC resource list

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

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

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Location

Adjuntas County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

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

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

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

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Endangered species

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

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

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

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

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

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

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

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

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

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

Birds

NAME	STATUS
Puerto Rican Broad-winged Hawk *Buteo platypterus brunnescens* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/5512	Endangered
Puerto Rican Parrot *Amazona vittata* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/3067	Endangered
Puerto Rican Sharp-shinned Hawk *Accipiter striatus venator* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/604	Endangered

Reptiles

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

Insects

NAME	STATUS
Puerto Rican Harlequin Butterfly *Atlantea tulita* Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9005	Threatened

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Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

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

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

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

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

What if I have eagles on my list?

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

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Migratory birds

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

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

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

Additional information can be found using the following links:

- 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-incidental-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 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?

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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

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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

Wildlife refuges and fish hatcheries

Refuge and fish hatchery information is not available at this time

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

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margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

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

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

Data exclusions

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

Data precautions

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

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Attachment 3

Supporting Documents

Conservation Measures for the Broad-winged hawk (*Buteo platypterus brunnescens*)

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

The Puerto Rican broad-winged hawk is a small hawk with dark chocolate-brown upperparts, heavily streaked rufous breast, and a broadly banded black and white tail. Adult male and female are similar in appearance, but the female is slightly larger. This species occurs in elfin woodland, sierra palm, caimitillo-granadillo, and tabonuco forest types of the Río Abajo Commonwealth Forest, Carite Commonwealth Forest, and El Yunque National Forest as well as within hardwood plantations, shade coffee plantations, and mature secondary forests. The Puerto Rican broad-winged hawk population is estimated at about 125 individuals island-wide.



The broad-winged hawk was federally listed in 1994. The broad-wing prefers to hunt from a perch under the forest canopy for a better view of potential prey in a forest clearing, trail or river below. Each hunting pair requires a range of 40 hectares (98 acres). The Broad-wing builds a nest of sticks in February and March, laying 2 to 4 white/brown-spotted eggs. The female incubates the eggs for almost a month while the male searches for food. The young fledge around April or May about 1 month after hatching and can fly about 6 weeks after hatching. The parents feed the young for a few weeks after they leave the nest. The voice is a high-pitched whistle.

The hawk is an uncommon and local resident in the El Yunque National Forest, the Rio Abajo State Forest, and the Toro Negro State Forest.

The US Fish and Wildlife Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the hawk and its habitat. These recommendations may be incorporated into new project plans and under certain cirmunstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented here.

1. For any project activity that involves construction or tree-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (a) special-status species that may occur in the work area, (b) procedures

to follow in the event a species is observed, and (c) other environmental BMPs and emergency spill response protocols.

2. All non-emergency work activities will be confined to daylight hours (i.e., sunrise to sunset), unless necessary for assessing or protecting biological resources.

3. Whenever possible, impacts to native nesting birds will be avoided by not conducting Project activities that involve clearing of vegetation, generation of mechanical noise, or tree disturbance during the typical breeding season for this hawk (February and March), if the hawk is determined to be present.

4. If Project activities must be conducted during the nesting bird season, the Contractor will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, the Contractor will notify the USFWS and establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.

5. If a broad-winged hawk is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

6. Designated critical habitat within the vicinity of project activities will be identified. All Proposed Project actions will be designed to avoid direct and indirect adverse modifications to these areas. Minimization measures, such as establishing and maintaining buffers around areas of designated critical habitat will be implemented in the event that avoidance is not feasible.

7. If critical habitat may be adversely modified by the implementation of Proposed Project actions, the area to be modified will be evaluated by a qualified biologist to determine the potential magnitude of the project effects (e.g., description of primary constituent elements present and quantification of those affected) at a level of detail necessary to satisfy applicable environmental compliance and permitting requirements. This information shall be submitted to the PRDNER as shown in Number 5 above.

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

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

- Marelisa Rivera, Deputy Field Supervisor
  Email: marelisa_rivera@fws.gov
  Office phone (786) 244-0081 or mobile (305) 304-1814

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

Conservation Measures for the Puerto Rican Amazon (Parrot) (*Amazona vittata*)

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

The Puerto Rican amazon (Amazona vittata), also known as the Puerto Rican parrot (Puerto Rican Spanish: cotorra puertorriqueña) or iguaca, is the only extant parrot endemic to the archipelago of Puerto Rico and belongs to the Neotropical genus Amazona. Measuring 28–30 cm (11.0–11.8 in), the bird is a predominantly green parrot with a red forehead and white rings around the eyes.



The parrot was federally listed as endangered in 1967. The parrot reaches sexual maturity at between three and four years of age. It reproduces once a year (between the months of February to June) and is a cavity nester. Once the female lays eggs, she will remain in the nest and continuously incubate them until hatching (about 24 to 28 days). The chicks are fed by both parents and will fledge 60 to 65 days after hatching. This parrot's diet is varied and consists of flowers, fruits, leaves, bark and nectar obtained from the forest canopy.

The species is the only remaining native parrot to Puerto Rico and has been listed as critically endangered by the World Conservation Union since 1994. Once widespread and abundant, the population declined drastically in the 19th and early 20th centuries with the removal of most of its native habitat; the species has completely vanished from Vieques and Mona Island. Conservation efforts commenced in 1968 to save the bird from extinction. The habitat of the parrot is generally identified as

the Palo Colorado, Palma de Sierra, and Tabonuco forests types of the upper zones of the Luquillo Mountains within the El Yunque National Forest.

The US Fish and Wildlife Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the hawk and its habitat. These recommendations may be incorporated into new project plans and under certain cirmunstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented here.

1. For any project activity that involves construction or tree-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (a) special-status species that may occur in the work area, (b) procedures to follow in the event a species is observed, and (c) other environmental BMPs and emergency spill response protocols.

2. All non-emergency work activities will be confined to daylight hours (i.e., sunrise to sunset), unless necessary for assessing or protecting biological resources.

3. Whenever possible, impacts to native nesting birds will be avoided by not conducting Project activities that involve clearing of vegetation, generation of mechanical noise, or tree disturbance during the typical breeding season for this parrot (January to July), if the parrot is determined to be present. The parrot selects a large, deep tree cavity, usually in a Palo Colorado tree. The parrot normally does not build its own nest but, many times, parrot biologists do build artificial cavities that are accepted by the parrot. A check with DNER should occur if large Palo Colorado trees are in the general construction area.

4. If Project activities must be conducted during the nesting bird season, the Contractor will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, the Contractor will notify the DNER and establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.

5. If a parrot is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

6. Designated critical habitat within the vicinity of project activities will be identified. All Proposed Project actions will be designed to avoid direct and indirect adverse modifications to these

areas. Minimization measures, such as establishing and maintaining buffers around areas of designated critical habitat will be implemented in the event that avoidance is not feasible.

7. If critical habitat may be adversely modified by the implementation of Proposed Project actions, the area to be modified will be evaluated by a qualified biologist to determine the potential magnitude of the project effects (e.g., description of primary constituent elements present and quantification of those affected) at a level of detail necessary to satisfy applicable environmental compliance and permitting requirements. This information shall be submitted to the PRDNER as shown in Number 5 above.

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

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

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

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

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

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

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



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

Last Revised: November 2020

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

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

Conservation Measures:

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

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

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

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

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

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

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

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

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

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

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

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

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

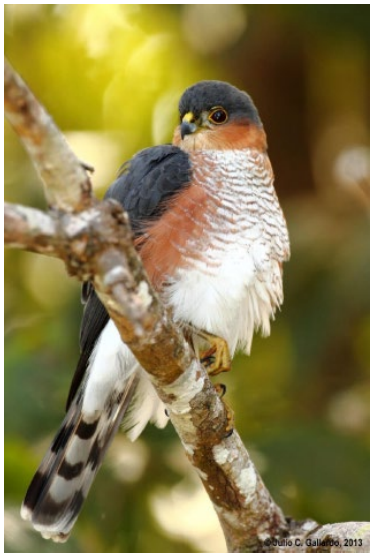
- Marelisa Rivera, Deputy Field Supervisor
  - Email: marelisa_rivera@fws.gov
  - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
  - Email: jose_cruz-burgos@fws.gov
  - Office phone (786) 244-0081 or mobile (305) 304-1386

Last Revised: November 2020

Conservation Measures for the Broad-winged hawk (*Accipiter striatus venator*)

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

The Puerto Rican sharp-shinned hawk is a small hawk measuring approximately 28 to 33 centimeters (11 to 13 inches). The dark slate gray upper parts and heavily barred rufous underparts of the adults are distinctive. Immatures are brown above and heavily streaked below. It has short, squared tail, often appearing notched when folded, and small head and neck. In flight, the short, rounded wings and long, narrow tail is characteristic. Adult males and females are similar in appearance, but the female is larger. The SSHA in Puerto Rico exhibits insular population traits, including small clutches, low productivity, and extended breeding periods. Historic information described this species as rare, uncommon, and occurring in restricted habitats in small numbers.



The sharp-shinned hawk was federally listed as endangered in 1994. The results of comprehensive population surveys suggest a decline of the island-wide population from 150 individuals in 1992 to about 100 individuals in 2016. In addition, a significant decline of this species have been reported in the Toro Negro Commonwealth Forest (TNCF) and Maricao Commonwealth Forest (MCF), which were previously considered the center of distribution of this species in Puerto Rico. Studies estimated the population of MCF as just 8 individuals and the population in TNCF as 26 individuals indicating a population decline of 53% and 86% in TNCF and MCF, respectively.

The US Fish and Wildlife Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the hawk and its habitat. These recommendations may be incorporated into new project plans and under certain cirmunstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented here.

1. For any project activity that involves construction or tree-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (a) special-status species that may occur in the work area, (b) procedures to follow in the event a species is observed, and (c) other environmental BMPs and emergency spill response protocols.

2. All non-emergency work activities will be confined to daylight hours (i.e., sunrise to sunset), unless necessary for assessing or protecting biological resources.

3. Whenever possible, impacts to native nesting birds will be avoided by not conducting Project activities that involve clearing of vegetation, generation of mechanical noise, or tree disturbance during the typical breeding season for this hawk (March and April), if the hawk is determined to be present.

4. If Project activities must be conducted during the nesting bird season, the Contractor will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, the Contractor will notify the USFWS and establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.

5. If a sharp-shinned hawk is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

6. Designated critical habitat within the vicinity of project activities will be identified. All Proposed Project actions will be designed to avoid direct and indirect adverse modifications to these areas. Minimization measures, such as establishing and maintaining buffers around areas of designated critical habitat will be implemented in the event that avoidance is not feasible.

7. If critical habitat may be adversely modified by the implementation of Proposed Project actions, the area to be modified will be evaluated by a qualified biologist to determine the potential magnitude of the project effects (e.g., description of primary constituent elements present and quantification of those affected) at a level of detail necessary to satisfy applicable

environmental compliance and permitting requirements. This information shall be submitted to the PRDNER as shown in Number 5 above.

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

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

- Marelisa Rivera, Deputy Field Supervisor
  Email: marelisa_rivera@fws.gov
  Office phone (786) 244-0081 or mobile (305) 304-1814

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

Appendix E

GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Thursday, March 14, 2024

Lauren B Poche

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

SHPO-CF-02-22-24-04 PR-CRP-001035 (Adjuntas) - Boulevard Luis

Our Office has received and reviewed the above referenced project in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the National Historic Preservation Act) and 36 CFR Part 800: Protection of Historic Properties.

Our records support your findings of no historic properties affected for this undertaking. Please note that should you discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions regarding our comments, please do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ LGC

October 20, 2022

Arch. Carlos A. Rubio Cancela
Executive Director
State Historic Preservation Officer
Cuartel de Ballajá Bldg.
San Juan, Puerto Rico

Re: Authorization to Submit Documents

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 registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

In line 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,

Juan C. Pérez Bofill, P.E. M.Eng
Director of Disaster Recovery
CDBG DR-MIT

February 22, 2024

Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)
San Juan, Puerto Rico

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization Program (CRP)

Section 106 NHPA Effect Determination Submittal for PR-CRP-001035, Boulevard Luis Muñoz Marín Project, Adjuntas, 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, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH and the subrecipient, the Municipality of Adjuntas, we are submitting documentation for the proposed Boulevard Luis Muñoz Marín Project. The muncipality proposes to enhance the entrance to the town center in an area adjacent to the Guarionex Municipal Complex located on Rodulfo González Street. The vision of the project is to recondition the surrounding areas of the Boulevard and preserve its green areas to enhance the main entrance to town from Route 10 to the north. The program includes a recreational area with gazebos, space for food trucks, a water park, a swimming pool with heated jacuzzi, green parks with playgrounds, signage artwork, public bathrooms, kiosks, booths, and an access ramp. The full scope is described in the submitted documentation, which includes mapping, photographs, and the 90% design drawings for the proposed project.

Based on the provided documentation, the Program requests concurrence with a determination that “No Historic Properties Affected” is appropriate for this undertaking.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@hornepr.com with any questions or concerns.

Kindest regards,



Lauren Bair Poche, M.A.
Architectural Historian, EHP Senior Manager
Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination**	
Subrecipient: Municipality of Adjuntas	
Project Name: Boulevard Luis Muñoz Marín	**Project ID:** PR-CRP-001035

Project Location: Rodulfo González Street PR-5516, Adjuntas PR 00601	
Project Coordinates: 18.171523, -66.728201	
TPID (Número de Catastro)**:** 266-000-002-63-000	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): c1985	**Property Size** (acres)**:** 2.81 acres

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid
Date Reviewed: 10/31/2023; January 23, 2024.
SOI-Qualified Archaeologist: Roberto G. Muñoz-Pando, PhD
Date Reviewed: 11/10/2023; January 5, 2024; February 02, 2024.

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

Project Description (Undertaking)

The subject property consists of a parcel of land with an approximate area of 2.81 acres. The property is located at the north entrance of the town of Adjuntas on Rodulfo González Street (PR-5516) and Calle D. The project is along Boulevard Luis Muñoz Marín on Rodulfo González Street on the outskirts of the town of Adjuntas and southeast with the athletic field Fernando Luis Baez. The boulevard contains a lookout point with metal structure and roof is centered on the elevated portion of the road, a sidewalk on the south side, luminaries and integrated metal benches into a metal railing. Existing buildings surrounding the site are the Coliseo Rafael Llull Pérez west of the athletic field residential buildings along Calle D to the west, the Domingo Pietri Ruiz Elementary School and High School complex atop a hill to the northeast, and commercial buildings to the east.

The site is accessed by Calle Estacionamiento from Rodulfo González Street on the northeast of the site, and it reaches the parking areas on the southeast via the center of the parcel. Another access to the project site is from Calle D via a road to the athletic complex on the northwest of the site. The site is on the lower portion of a steep terrain to the north. The site currently contains an asphalted triangle to the west, followed by a grass area that used to have a swimming pool, and a concrete building with bleachers without a roof overlooking the former pool area and behind the bleachers the former pool's motors, cleaning, and maintenance facilities. There is a gazebo with ceramic tile roof on a concrete pad to the south of the site. There are concrete pads and concrete low walls surrounding the former pool area.

The Municipality of Adjuntas proposes to enhance the entrance to the town center in an area adjacent to the Guarionex Municipal Complex located on Rodulfo González Street. The existing condition of the site is an underutilized parcel that has a filled-in swimming pool covered with grass, an asphalted lot to the north, and access roads from both streets. The site is surrounded by green areas. The vision of the project is to recondition the surrounding areas of the Boulevard and preserve its green areas to enhance the main entrance to town from Route 10 to the north. The program includes a recreational area with gazebos, space for food trucks, a water park, a swimming pool with heated jacuzzi, green parks with playgrounds, signage artwork, public bathrooms, kiosks, booths, and an access ramp.

The areas surrounding the municipal complex have enough space for the location of fixed businesses and food trucks, in addition to recreational green areas. The project proposes to reconfigure the gazebos into spaces for small businesses for the benefit of residents who intend to establish commercial endeavors. In addition, the project proposes the creation of spaces where merchants with street "food trucks" can park them in a space that provides security, both to merchants, to traffic, and to their visitors. Solar lighting will also be installed around the premises and sanitary facilities will be provided in addition to the utilities necessary to establish the businesses. An area reserved for a garbage container will be built. A new building is proposed to contain the public bathrooms that will be used for the aquatic park, play area and recreational areas. A concrete slab foundation will be built for portable toilets.

In addition, the project contemplates the recondition of the pool located inside the Guarionex Municipal Complex. Part of this proposal is to create a removable floor made of glass or acrylic in which it can be used to cover the pool area when not in use. In this way the cover will help prevent incidents when there is no supervision and in turn create an area of interest in which people can walk on this transparent cover and observe the water below. For the restoration of the pool, the intention is to partially dig out the existing fill to reduce the water depth and lessen the pool maintenance costs. A section of the pool is projected to have heated water for a hot tub. Additionally, the project includes recreational areas with water sprinklers for the enjoyment of adults and children. This public attraction will be in an area adjacent to the pool, the total area of the location of the pool and the streams will be approximately 1,100 square meters. Both water attractions will have security gates to prevent uncontrolled access. Additionally, the pool area will have a security fence surrounding it.

In addition to these improvements, the proposal includes the reconditioning and revitalization of the green areas located between the kiosks and the pool. This green area lost a large amount of vegetation and mature trees after the passage of hurricanes Irma

and María. The green area is composed of approximately 1,890 square meters of land to rehabilitate and create a safe and accessible path that connects the kiosks with the water attractions. The park area will include concrete benches and sidewalks and gazebos with umbrellas and tables for picnics. The signage artwork of big letters with the town's name "Adjuntas" is proposed in concrete or metal with Led lighting.

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 a parcel defined by the property boundaries lines. The subject property consists of a parcel of land with an approximate area of 2.81 acres. The property is limited to the west by Rodulfo González Street (PR-5516), to the north by Calle D, to the southeast with the athletic field Fernando Luis Baez, and to the southwest with an existing building that is not part of the project. The size of the APE is 784.12 feet long by 323.12 feet wide.
The visual APE of the building is the viewshed of the proposed project extending 100 feet to the opposite side in front of Rodulfo González Street to the northeast, extending 70 feet to athletic field Fernando Luis Baez to the southeast, with the side elevation of an existing building to the southwest, and extending 35 feet to the front of buildings on Calle D Street to the north. The size of the visual APE is 976.56 feet long by 815.51 feet wide.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is within a quarter-mile radius of no previously recorded archaeological sites and/or NRHP listed/eligible historic properties pertaining to the Adjuntas Traditional Urban Center. Therefore, no known archaeological site are expected to be affected by this project.

Table 1 lists the 9 previous Archaeological Resource Surveys that we had access to during our research. Their methods vary amongst the surveys and their main information is on the table. It is crucial to point out that only three of the nine studies yielded positive results. Of the three reports with positive results, one was a nomination to the NRHP of the Washington Irving Graded School (**6** on the table), another was a study of the cinemas of Puerto Rico (**5** on the table) and the other was for the remodeling of the Public Plaza (**3** on the table). The first two positive studies mentioned above (**5** and **6** on the table) were positive for the presence of historic structures not their archaeological potential. Furthermore, the remodeling of the Public

Plaza study(**3** on the table) is positive for the presence of the relocated monolith in currently placed in the plaza. As mentioned above, this monolith lacks contexts and is unlikely to yield further information to the archaeological record.

The *Constucción de Coliseo Municipal* (survey **1** in the table) was performed by Jesus S. Figueroa Lugo in 1994. It was a Phase 1A-1B archaeological resource study that came out negative for historic structures. It covers most of the project location. The surface recovery found 14 19th and 20th Century fragments 22 glass fragments, and 3 fragments of porcelain insulators. They made 12 shovel test pits in a 25 meters by 25 meters grid with 3 transects and 4 pits per transect and all 12 test pits were negative for archaeological materials. 85% of the area was considered altered and removed from its original composition. The results of this survey were reported as negative since all the artifacts recovered were found during the surface survey of the area and all the shovel test pits were negative for archaeological results.

Table 1. Archaeological Resource Studies Conducted Within Quarter-Mile Radius of Project Area

Author	Title	Year	SHPO/IPRC ID	Results	Location
Jesus S. Figueroa Lugo	**1.**Phase 1A-1B, Construcción Nuevo Coliseo Municipal	1994	CAT-AD-94-02-01	Negative	0.0 miles in site
Eduardo Questell Rodriguez	**2.**Phase 1A-1B, Urb Loma Linda y Remanente Finca de 49.4225 cuerdas	1993	CAT-AD-93-01-05	Negative	0.04 miles northeast
Adalberto Maurás Casillas	**3.**Phase 1A, Remodelación Plaza Arístides Moll Boscana	2007	CAT-AD-07-04-05	Positive	0.06 mi southwest
Marisol Martínez Garayalde	**4.**Phase 1A-1B, Mejoras Al Sistema Sanitario Comunidades Barriada Rodríguez, Olimpia y Calle Martínez Andino	1997	SHPO ID: 08-07-97-02 / CAT-AD-97-02-05	Negative	0.04-0.25 mi coverage towards the south of the buffer
José A. Hernández Mayoral	**5.**Los Viejos Cines de Puerto Rico	2020	No data	Positive	0.07 mi northwest
Juan Llanes Santos	**6.**Nomination of Washington Irving Graded School to the National Register of Historic Places	2015	15000274	Positive	0.08 mi southwest
Antonio Daubón Vidal	**7.**Phase 1A- 1B, Escuela Elemental Urbana de Adjuntas, Carr. PR-5516	1995	CAT-AD-95-02-03	Negative	0.13 miles northeast
Marisol Rodríguez Miranda	**8.**Phase 1A-1B, Urbanización Villa Carmení	1995	SHPO ID: 08-17-95-01/ CAT-AD-95-02-02	Negative	0.25 mi southwest

Cultural Setting

The Adjuntas Traditional Urban Center is located in a highland valley north of Guayanilla and Yauco and northwest of Ponce, surrounded by the western mountains of the Cordillera Central. This is a fertile region watered by three small rivers: Río Cidra, Río Saltillo, and Río Vacas. Río Cidra is named for the local production of cider. This river runs along the west flank of the Adjuntas Traditional Urban Center, with a tributary running southwest through the urban center. Adjuntas is relatively close to the south coast, to which it is linked historically, primarily to the city of Ponce. However, its rivers run north. From a hydrological perspective, Adjuntas is connected to the north coast. From a prehistoric or aboriginal perspective, Adjuntas may be connected to the north-center, particularly Utuado.

The name of Adjuntas derives from "attached" in Spanish, probably a shortened version of *tierras adjuntas* to Coamo, as the region originally belonged to the early 16th century town of San Blas de Illescas de Coamo, one of the three earliest Spanish settlements in Puerto Rico along with Caparra and San Juan. Adjuntas became a *barrio* of Ponce and then Utuado, becoming a separate municipality in 1815 under the leadership of don Diego Maldonado, on land donated by don Juan de Jesús La Torre. Adjuntas is known as "the Switzerland of Puerto Rico" for its cool weather, apparently after President Theodore Roosevelt visited Adjuntas and was pleased with the cool weather, "like a tropical Switzerland." Adjuntas is also known as "the city of the sleeping giant" for the mountains surrounding the town in every direction, and "the land of lakes" for its numerous natural pools or *charcas*. In his visit to Puerto Rico, French artist Auguste Plée produced two sketches of Adjuntas in 1821. Far more informative are two maps produced in the 1880s, including the 1880 *Plano del Pueblo de Adjuntas*, drawn by Manuel Hernaíz Vidal (Figure 1), located at the Archivo General de Puerto Rico, and the circa 1885 Croquis de Adjuntas by the *Cuerpo de Ingenieros Militares* (Figure 2).

The Spanish conquistador and interpreter Juan González may have explored and settled in Adjuntas during the early 16th century. This has yet to be corroborated archaeologically. Prior to the town's foundation, a small chapel was built in 1805. By 1828, the town had eight houses and four *bohíos* or thatched huts. By 1878, as reported by Manuel Ubeda y Delgado, Adjuntas had grown to eighty houses and seventy-five *bohíos*. Adjuntas' wealth increased during the late 19th century primarily to coffee production. Through the 19th century,

particularly with the participation Corsican immigrants, Adjuntas was a leader in coffee production and exports to Europe, receiving the title of *villa* by the Spanish government in 1884.

Adjuntas was also known for its cider which exported to Europe, particularly by "Citron Exports," owned and operated by Dutch immigrants. In 1910, William H. Armstrong described Adjuntas as a "coffee town on the main road between Ponce and Arecibo" and "a popular summer resort for a few people who live in Ponce" due to its cool weather. At the time, Adjuntas lacked a regular hospital, most houses were built of wood, including the town hall building, and charcoal was the only available fuel. The urban population at that time included 1,406 inhabitants. According to Armstrong, the urban aqueduct system in Adjuntas was "piped in a crude way from the mountains." A 1937 aerial photograph reveals the extension of Adjuntas toward the beginning of the 20th century (Figure 3).

Adjuntas and other neighboring mountain municipalities are known to contain gold, silver, and copper. The initial interest in gold in the 16th century was short-lived; there was gold, but in insufficient quantities. In the 1980s, the government of Puerto Rico proposed to operate a large-scale copper mining enterprise in Adjuntas, Utuado, Lares, and Jayuya. This project required open mines with enormous artificial terraces and large-scale environmental impact. Opposition to this project led to the creation of the *Taller de Arte y Cultura de Adjuntas*, more commonly known as *Casa Pueblo*, with headquarters located in a historic house within the Adjuntas Traditional Urban Center.

Potential for Intact Cultural Deposits

A total of eleven prehistoric sites have been reported for the Municipality of Adjuntas, mostly *bateyes* or ball courts and petroglyphs associated with rivers and creeks, created by pottery-making people of the *Ostiones* tradition during 1200 AD to 1500 AD. None of them are currently *in situ* in the quarter mile buffer of the APE. No prehistoric sites or 16th century Spanish sites have been detected within the Adjuntas Traditional Urban Center.

The soils that compose most of the APE is Humatas Clay of the HmE2 (20 to 40 % slopes) variety and HmF2 (40 to 60 % slopes) variety. The slope of this area is not likely to preserve *in situ* precolonial sites.

Because of the information gathered in this section (previous impacts, topography, previous investigations, and literature review), we consider there is a low potential for finding intact prehistoric archaeological deposits during this undertaking. Likewise, the possibility of historic archaeological deposits on or near the APE is considered low.

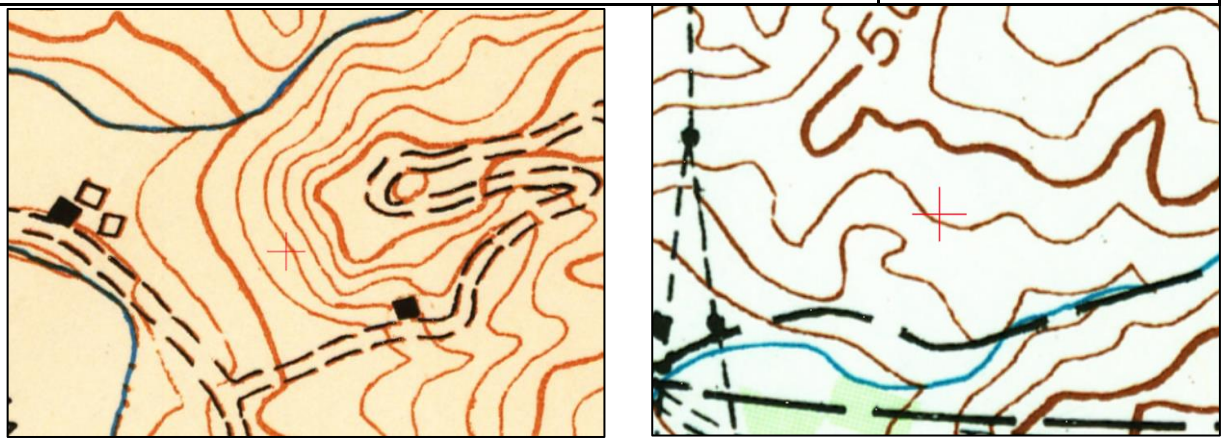
Identification of Historic Properties - Architecture

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 0.35 miles northeast of town and outside the boundaries of the National Register of Historic Places (NRHP)-eligible Traditional Urban Center of Adjuntas. The subject property is located outside the discontinuous Adjuntas Traditional Urban Center, and it is not contributing to the district. The property is limited to the west by Rodulfo González Street (PR-5516), to the north by Calle D, to the southeast with the athletic field Fernando Luis Baez, and to the southwest with an existing building that is not part of the project.

There is one NRHP-listed property within the quarter mile buffer zone from the APE. The listed property is Carretera no. 6 [**1**] located 0.25 miles southeast of the project area (APE). Carretera Núm. 6 is a linear district composed of several contributing resources, among these, the road itself, bridges, historic culverts, and *casillas de peones camineros*. The district is a stretch of asphalted road of almost ninety kilometers in length that crosses Puerto Rico. With its historic course built between 1880 and 1904, the road connects the northern city of Arecibo, to the southern city of Ponce in a winding north to south direction. This was the second road within Spain's 19th Century *Plan Carretero* to cross the island form north to south, this engineering marvel runs from the coastal plains of the Atlantic Ocean to the coastal plains of the Caribbean Sea, cutting its way throughout some of the most challenging terrain in the western portion of the Cordillera Central, the continental divide than runs east to west along the island's center. Along its path, Carretera Núm. 6 connects the municipalities of Ponce, Adjuntas, Utuado, and Arecibo.

There is one NRHP-eligible property located 0.23 miles southeast of the APE (at 18.167546, -66.726484). The eligible property is the Residencial Valle Verde, a public housing complex consisting of eleven buildings constructed in 1964. This property is also eligible per the latest SHPO inventory list.

Historically, this area of Adjuntas on the outskirts of town has been vacant. Judging from the topographic maps from 1945 onwards there has been no intense development in this area of north of Adjuntas. The Cidra River is to the west of the side and the terrain become steep to the north of the site.



Figures 1 & 2. Detail of 1947 and 1977 USGS Topoghrapic Maps of the project area.

The swimming pool, the concrete building with bleachers, and the small shallow circular pool on the site were constructed c1985. The project first appears on a 1993 aerial image but is not present in 1977 aerial imagery.



Figures 1 & 2. Detail of 1993 and 2006 Google Earth aerial images of the site.

Both pools were filled-in by 2013 as shown in the historic aerial images below. The athletic track south of the project area was bult in 2014 replacing a baseball field that had been these since 1993.







Figures 3, 4 & 5. Detail of 2013, 2016, and 2022 Google Earth aerial images of the site.

This property **does not** meet the criteria to be eligible for the National Register of Historic Places. The buildings on site are modern and the property being 0.23 miles north of the Adjuntas Traditional Urban Center does not contribute to the historic district.

Determination

The following historic properties have been identified within the APE:

Direct Effect: No built historic properties are within APE. There are no archaeological sites within the APE or in its immediate periphery. The archaeological potential of the APE is low due to the significant impacts that the area suffered in the 1990s. Therefore, impacts to previously unknown archaeological deposits are not expected.

Indirect Effect: N/A

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect the historic properties that compose the Area of Potential Effect.

Recommendation

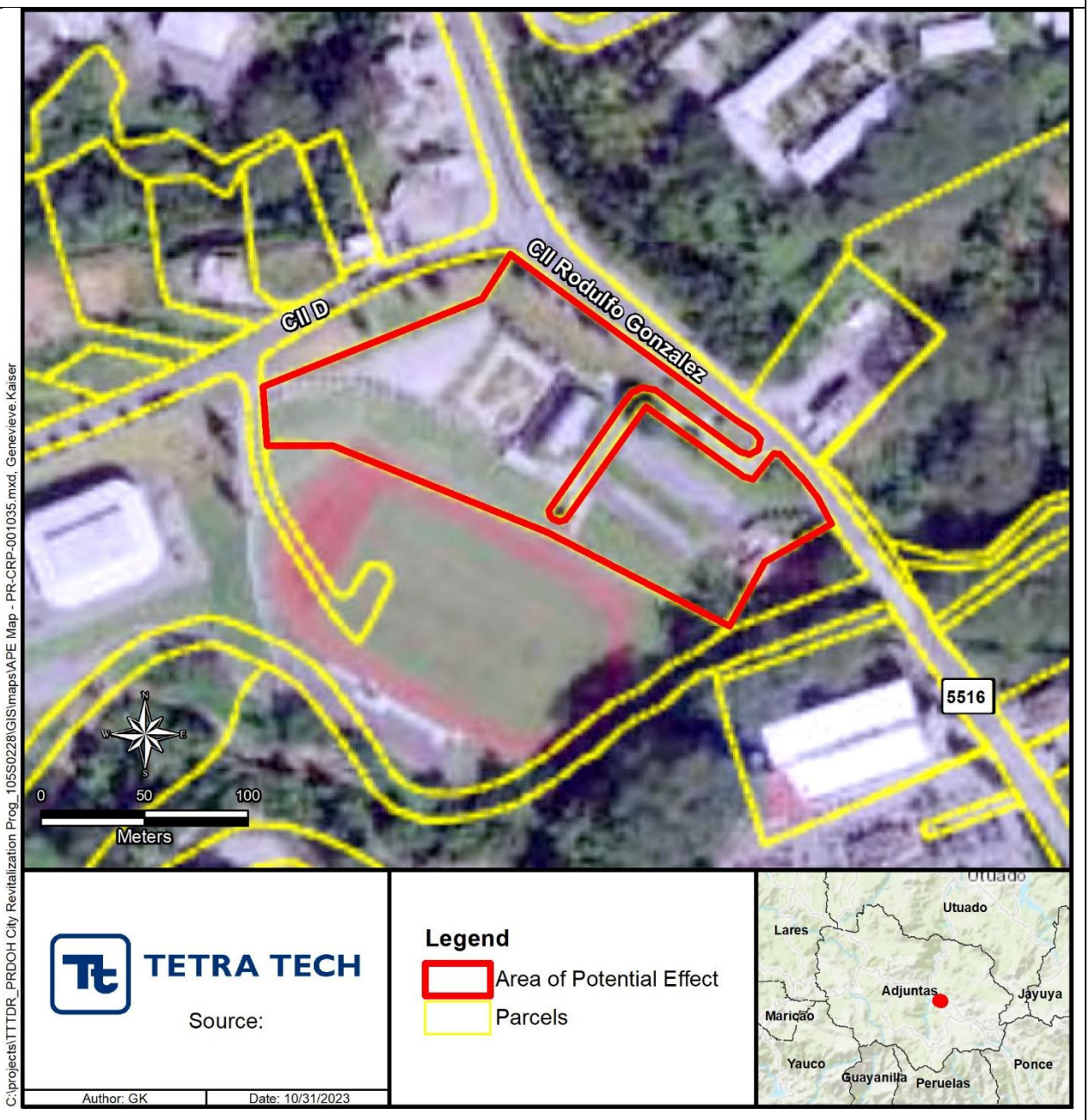
The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

☒ No Historic Properties Affected
☐ No Adverse Effect
Condition (if applicable): N/A
☐ Adverse Effect
Proposed Resolution (if appliable): N/A

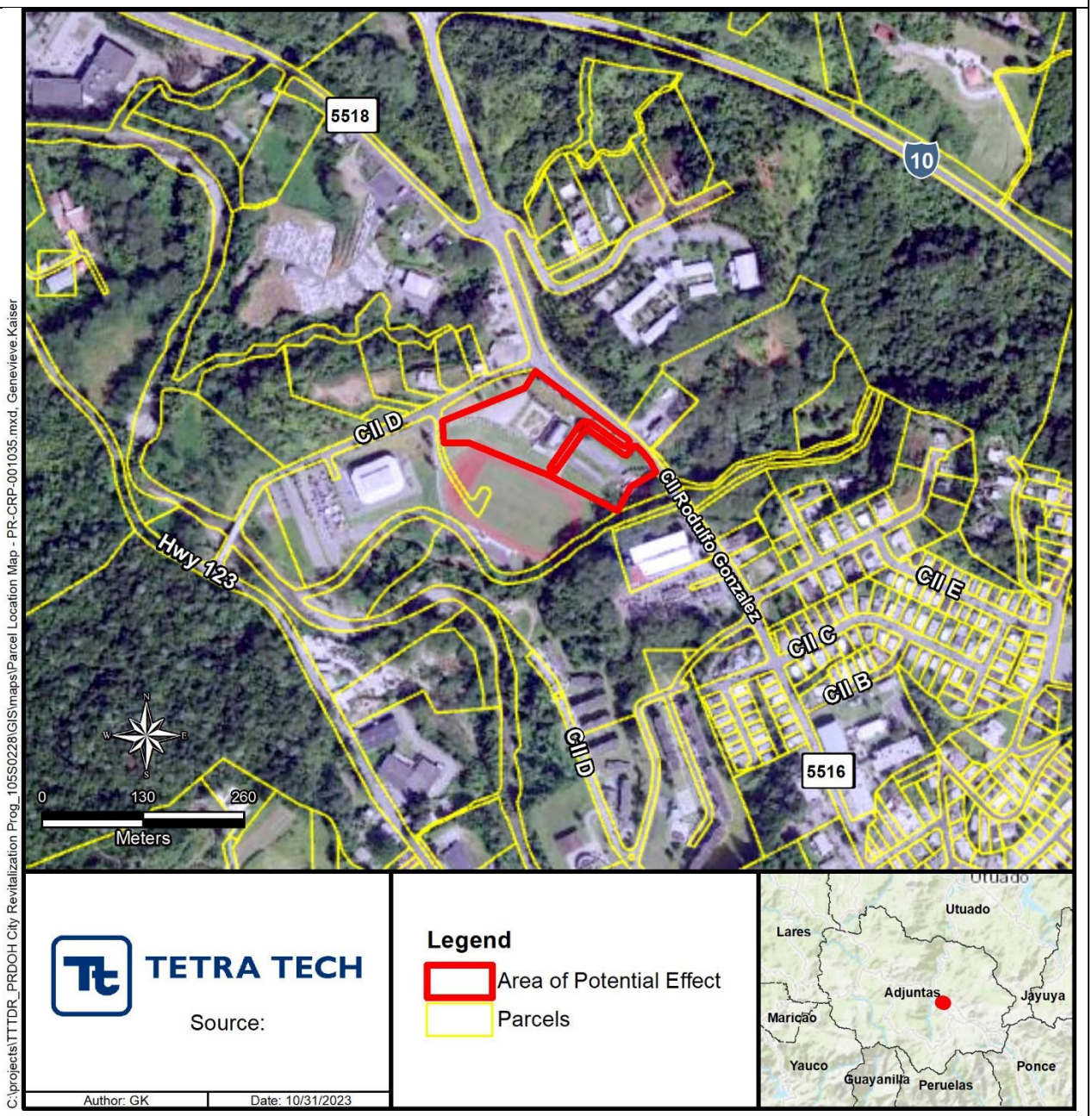
This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and: ☐ **Concurs** with the information provided. ☐ **Does not concur** with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

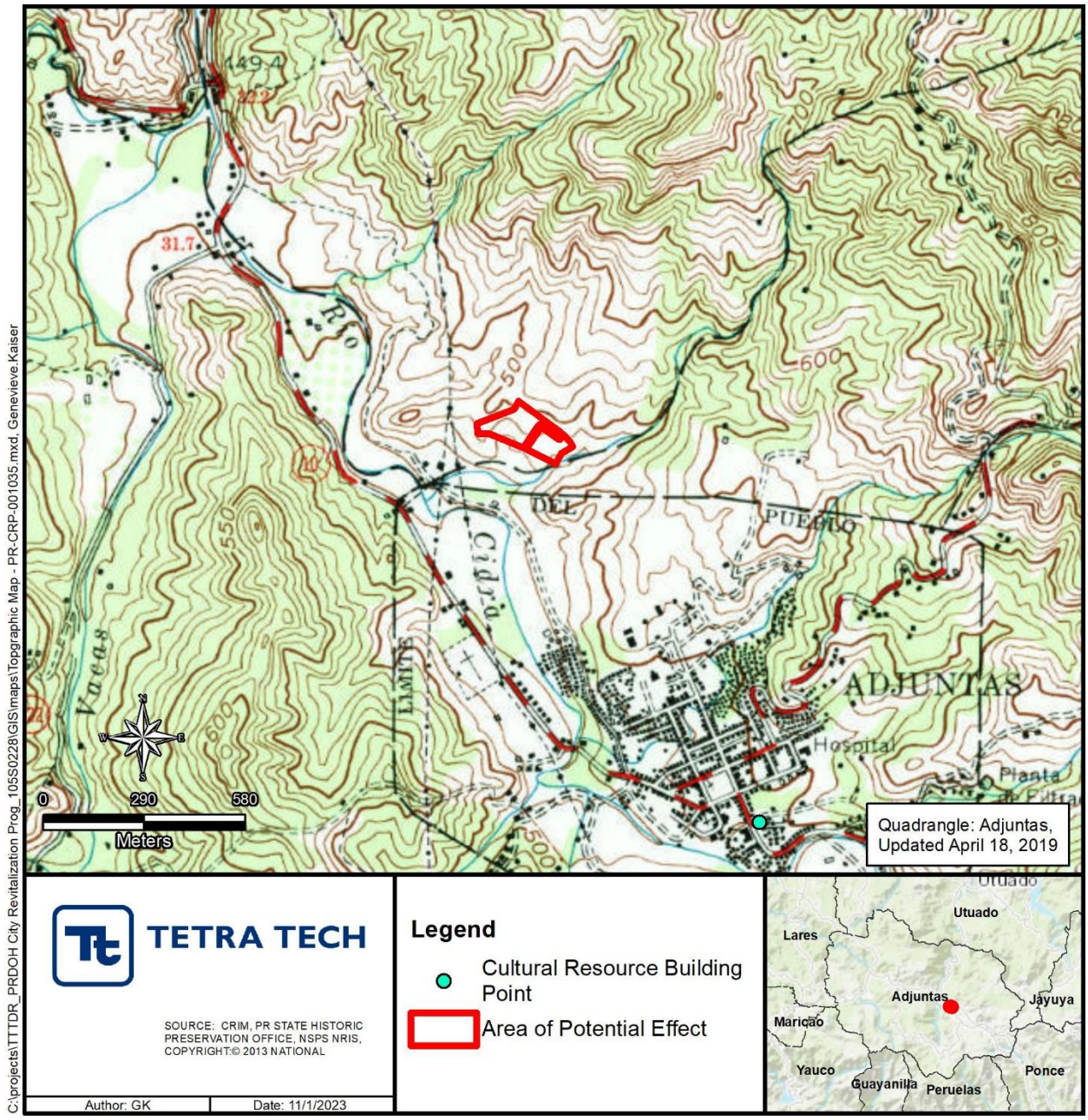
Project (Parcel) Location – Area of Potential Effect Map (Aerial)



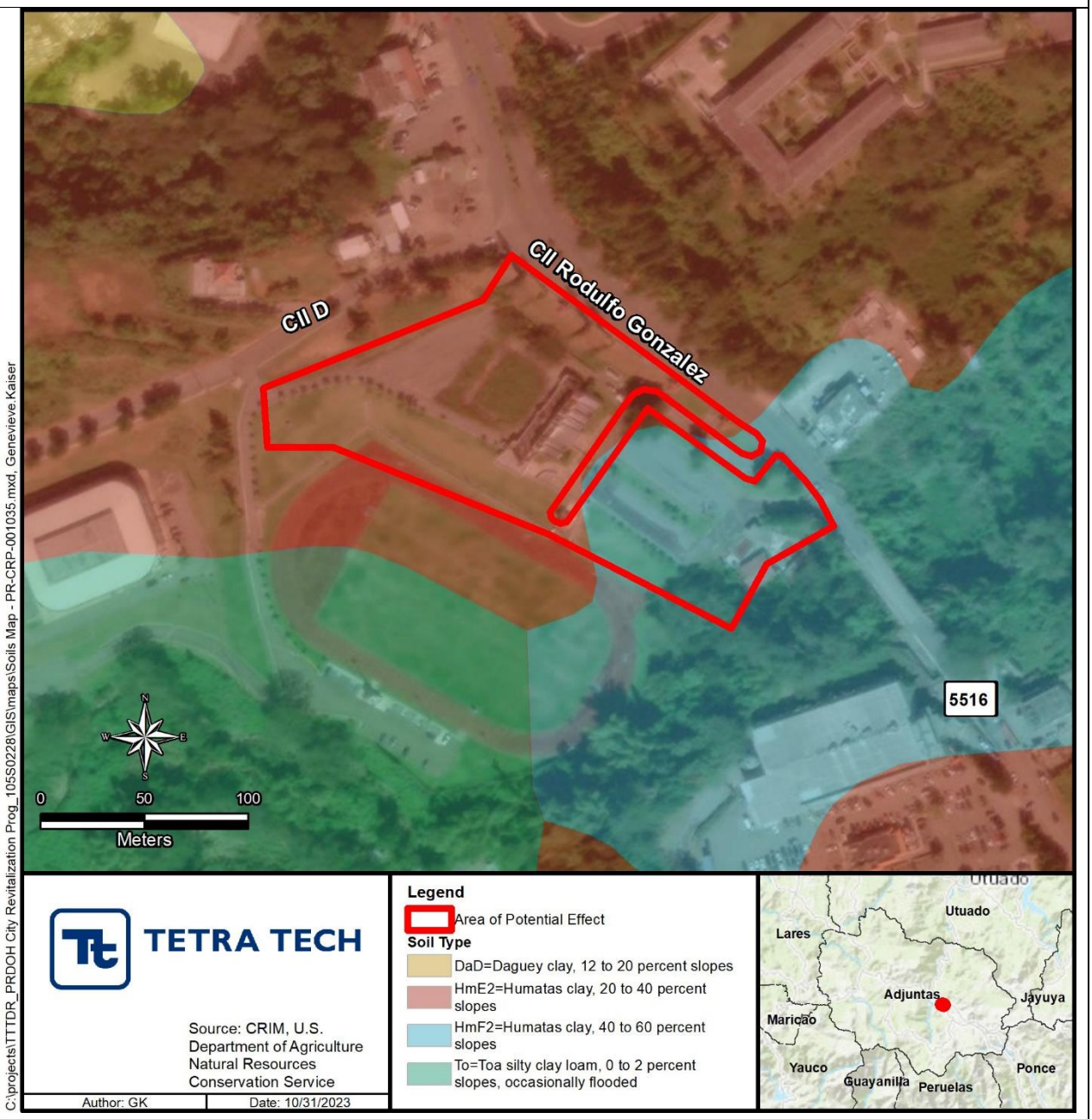
Project (Parcel) Location - Aerial Map



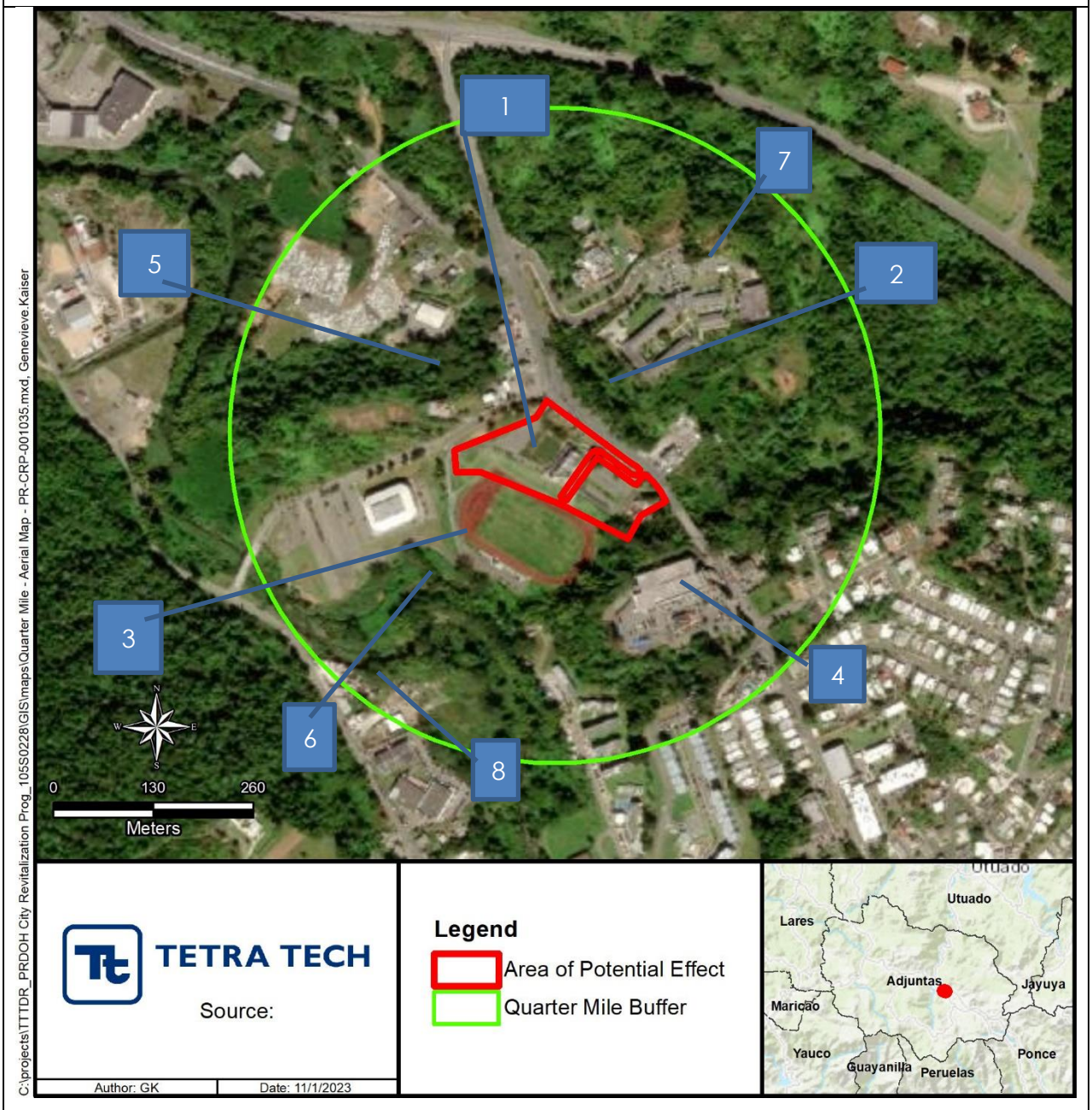
Project (Parcel) Location - USGS Topographic Map



Project (Parcel) Location – Soils Map

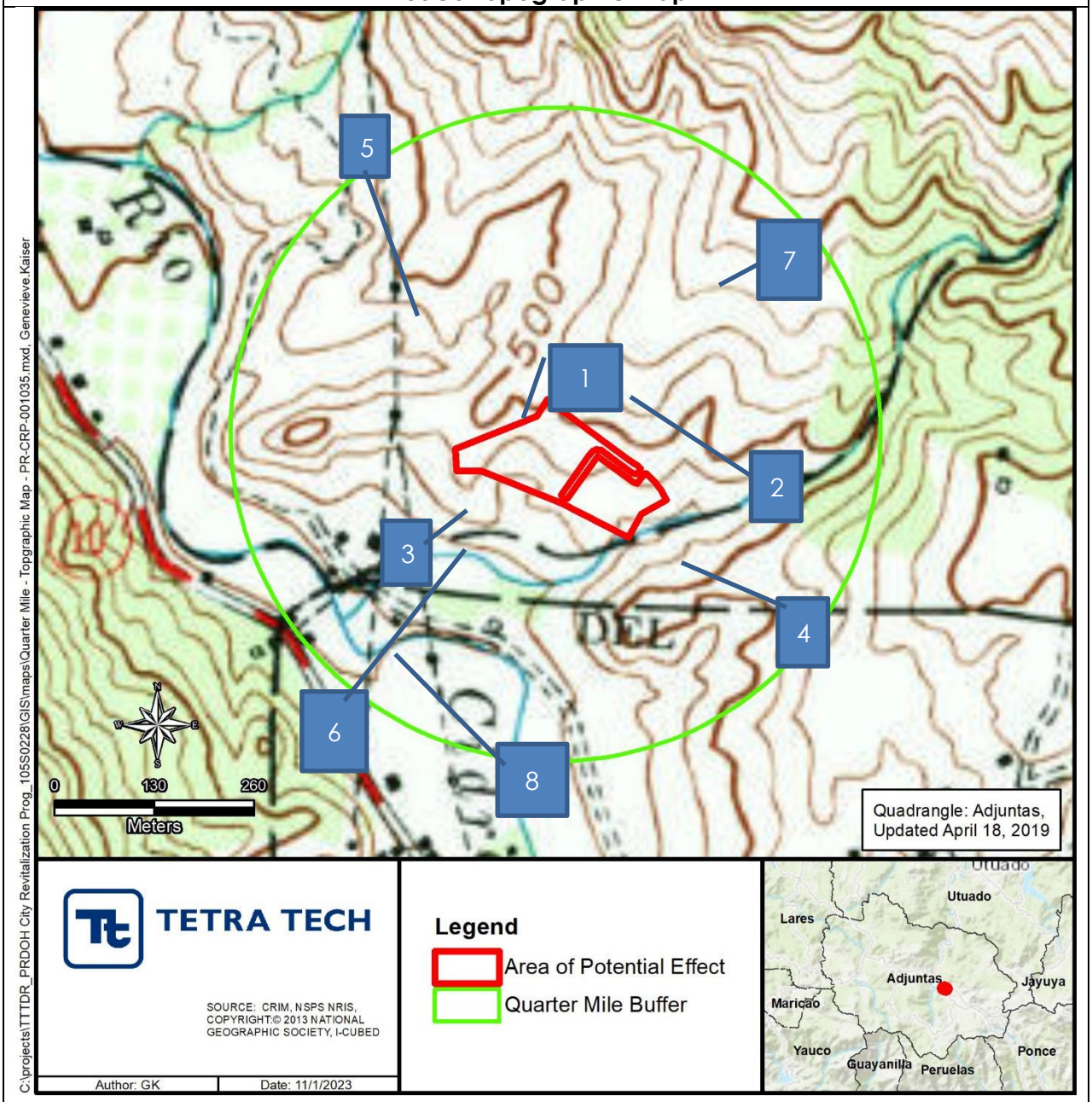


Project (Parcel) Location with Previous Investigations - Aerial Map



Numbers correspond to Cultural Resource Studies listed in Table 1

Project (Parcel) Location with Previously Recorded Cultural Resources
USGS Topographic Map



Numbers correspond to Cultural Resource Studies listed in Table 1

Photograph Key





Photo #: 1	**Description:** Rodulfo González Street PR-5516 view from Calle D
Date: 3/4/2023	**Direction:** Southeast



Photo #: 2	**Description:** Rodulfo González Street PR-5516 view from boulevard
Date: 3/4/2023	**Direction:** Southeast



Photo #: 3	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Southwest



Photo #: 4	**Description:** Rodulfo González Street PR-5516 view of from boulevard
Date: 3/4/2023	**Direction:** Southeast



Photo #: 5	**Description:** Rodulfo González Street PR-5516 view of from boulevard
Date: 3/4/2023	**Direction:** Southeast



Photo #: 6	**Description:** Rodulfo González Street PR-5516 view of from boulevard
Date: 3/4/2023	**Direction:** Northwest



Photo #: 7	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Northwest

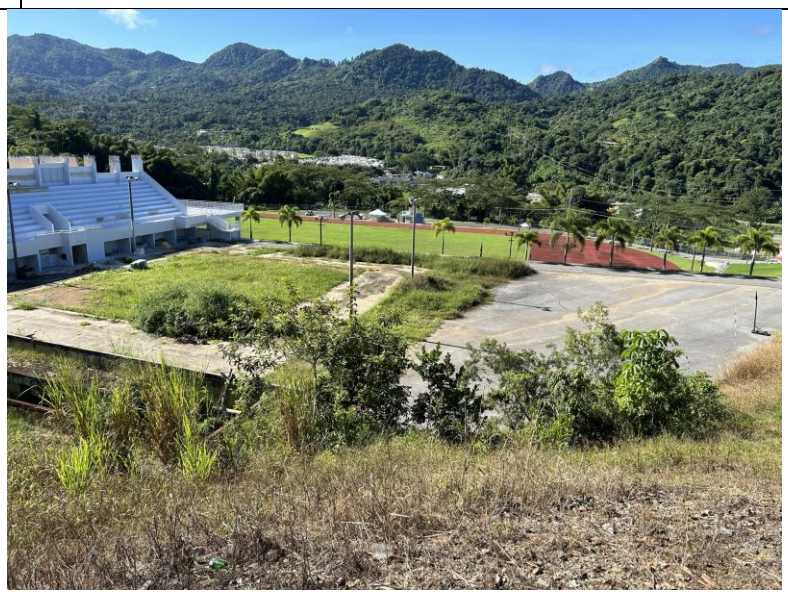


Photo #: 8	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** South



Photo #: 9	**Description:** Rodulfo González PR-5516 Street view
Date: 3/4/2023	**Direction:** North



Photo #: 10	**Description:** Street view of Calle D
Date: 3/4/2023	**Direction:** Southwest



Photo #: 11	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** East



Photo #: 12	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** West



Photo #: 13	**Description:** Overview of the athletic track
Date: 3/4/2023	**Direction:** South



Photo #: 14	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Northeast



Photo #: 15	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** East



Photo #: 16	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Southwest



Photo #: 17	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Southwest



Photo #: 18	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** North



Photo #: 19	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Northwest



Photo #: 20	**Description:** Overview of the property
Date: 3/4/2023	**Direction:** Northeast

WORKING DRAWINGS FOR: PR-CPR-001035

BOULEVARD LUIS MUÑOZ MARÍN

JANUARY 2024 90%

OWNER: MUNICIPIO DE ADJUNTAS
CII JOAQUIN, ADJUNTAS 00601

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S-107 BATHROOMS STRUCTURAL PLAN
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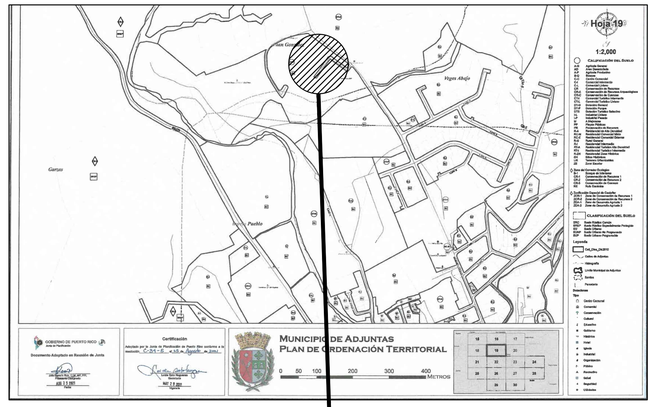
ELECTRICAL

E-101 ELECTRICAL SITE PLAN
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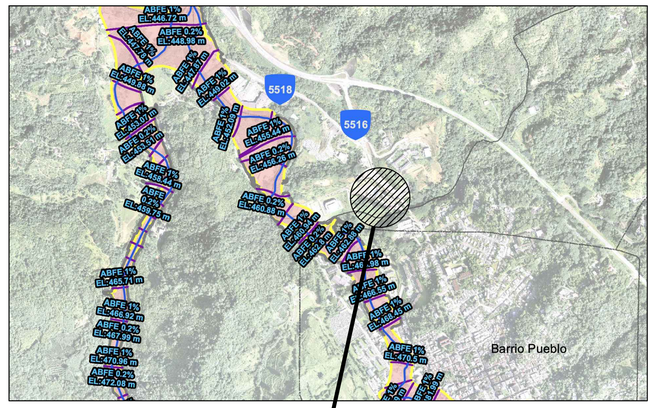
ADJUNTAS, PUERTO RICO

LOCATION PLAN



ZONING | DT-P | 25-AUG-2021

ZONING PLAN



FLOOD ZONE X | 72000C1090H | 13/04/2018

FLOOD PLAN

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:
PR-CRP-001035
BOULEVARD LUIS MUÑOZ MARÍN
CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

TITLE SHEET

SCALE:	BIDDEN DATE: NOV. 2023
DRAWN BY: Exan Melendez AIT, Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **T-100**	SHEET NO. 1 of 68

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS WHICH INCLUDES THE DRAWINGS, ALL ADDENDUM'S AND MODIFICATIONS ISSUED.

2. THE GENERAL CONTRACTOR (GC) SHALL REVIEW ALL DOCUMENTS AND VERIFY ALL DIMENSIONS AND FIELD CONDITIONS AND SHALL CONFIRM THAT WORK IS BUILDABLE AS SHOWN. ANY CONFLICTS OR OMISSIONS, ETC., SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF ANY WORK IN QUESTION. THE GC SHALL ARRANGE FOR INSPECTIONS NECESSARY TO OBTAIN A CERTIFICATE OF OCCUPANCY.

3. IN CASE OF CONFLICT W/ DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, SHALL BE NOTIFIED FOR CLARIFICATION.

4. ALL WORK SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS WHENEVER POSSIBLE. WORK INVOLVING EXCESSIVE NOISE OR DUST, OR WHICH WOULD OTHERWISE INTERFERE WITH THE NORMAL OPERATION OF THE FACILITY SHALL BE DONE ON AN OVERTIME, NON-REGULAR BUSINESS HOUR BASIS TO BE COORDINATED WITH OWNER.

5. GENERAL CONTRACTOR SHALL NOTIFY OF ANY (E) UTILITIES, NOT COVERED IN THE CONSTRUCTION/DEMOLITION DOCUMENTS, WHICH MAY INTERFERE WITH COMPLETING THEIR SCOPE OF WORK. GENERAL CONTRACTOR SHALL DISCUSS THE REMOVAL OF THESE UTILITIES. WHEN REMOVAL IS APPROVED, GENERAL CONTRACTOR SHALL INSPECT, TEST, AND DISCONNECT THE SPECIFIED UTILITY, CUT BACK TO SOURCE (OR PERIMETER OF LEASE SPACE) AND CAP. ALL PENETRATIONS RESULTING FROM THE REMOVAL SHALL BE SEALED WITH NEW CONSTRUCTION TO MATCH (E) ADJACENT BLDG. FINISHES. UTILITY SERVICE SHALL BE DEFINED AS PLUMBING, HVAC, ELECT., AND FIRE PROTECTION SYSTEMS. GC SHALL INDICATE PERMANENTLY ABANDONED UTILITIES ON A RECORD SEPIA TO SERVE AS PART OF THE "AS-BUILT" SET.

6. "ALIGN" SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.

7. "TYPICAL" OR "TYP" SHALL MEAN THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS OTHERWISE NOTED. DETAILS ARE USUALLY KEYED AND NOTED "TYP" ONLY ONCE, WHEN THEY FIRST OCCUR.

8. "SIMILAR" OR "SIM" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION ON PLANS AND ELEVATIONS.

9. WORK AREAS TO REMAIN SECURE AND LOCKABLE DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE SECURITY.

10. THE GC SHALL VERIFY THAT THE EXISTING FLOORS ARE LEVEL AND FREE FROM SCALING. GC TO REPORT ANY VARIATIONS IN FLOOR LEVEL GREATER THAN 1/4" IN 10'-0" (NON-CUMULATIVE).

11. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. WHAT IS SHOWN OR REFERRED TO AT A GIVEN LOCATION SHALL BE PROVIDED AS THOUGH SHOWN ON ALL (U.O.N.).

12. SUBSTITUTIONS, REVISIONS, OR CHANGES MUST BE SUBMITTED FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. REFER TO SPECIFICATIONS FOR SPECIFIC PROCEDURES.

13. ALL WORK SHALL BE COORDINATED BY THE G.C. INCLUDING; SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, BUILDING FACILITIES, ETC.`

14. THE SCOPE OF WORK AND ADJACENT AREAS SHALL BE PROTECTED FROM ANY DAMAGE THAT OCCURS BECAUSE OF THIS WORK. ANY DAMAGE THAT OCCURS SHALL BE THE FINANCIAL RESPONSIBILITY OF THE GC.

15. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED PER MFR.'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND CONTRACT DOCUMENTS, THE GC SHALL NOTIFY BEFORE PROCEEDING.

16. ACCESS PANELS, CLEANOUTS, AND THE LIKE SHALL BE MAINTAINED FOR EXISTING BUILDING SYSTEMS. RELOCATE ACCESS PANELS TO FIT WITH NEW WORK.

17. THE GC SHALL HAVE A FULL-TIME REPRESENTATIVE ON SITE AT ALL TIMES WHILE CONSTRUCTION ACTIVITIES ARE OCCURRING ON SITE.

18. THE GC SHALL COMPLY WITH ALL CODES, LAWS, ORDINANCES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.

19. THE GC SHALL OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.

20. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN PARTITION LOCATIONS, SIZES AND TYPES. DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON CONSTRUCTION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT FOR WRITTEN CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION.

21. COMMENCEMENT OF WORK SHALL BE DEEMED AS THE GC'S ACKNOWLEDGMENT OF ALL WORK REQUIRED TO COMPLETE PROJECT IN CONFORMANCE WITH CONTRACT DOCUMENTS AND SCHEDULE. IT IS THE RESPONSIBILITY OF THE GC TO COORDINATE ORDERS, SUBMITTALS AND IMPLEMENTATION OF LONG LEAD ITEMS. THE GC'S FAILURE TO MAKE LONG LEAD ITEM ORDERS IN A TIMELY FASHION SHALL NOT BE GROUND FOR SUBSTITUTIONS.

22. ALL NEW CONSTRUCTION INCLUDING CONCRETE, MASONRY, PLASTER, DRYWALL, DOORS, FRAMES, METAL PARTITIONS AND MISCELLANEOUS UNFINISHED METALS (OTHER THAN STAINLESS STELL) SHALL BE PAINTED UNLESS OTHERWISE CLEARLY ON DRAWINGS.

GRAPHIC LEGEND

A

A1.10 — SECTION

1 / A1.10 — DETAIL

22 / 4 / A-2 / 4 / 22 — INTERIOR DETAIL

RECIBIDOR 201 — ROOM TAG

2 — DOOR TAG

B — WINDOW TAG

1 — REVISION NUMBER

A — FINISHES

5 — WALL TYPE

3 — EQUIPMENT

EPE+12'-6" — EXISTING FLOOR ELEVATION

EPE+12'-6" — FINISH FLOOR ELEVATION

FINISH FLOOR

DC — SITE DIMENTION

VEC — VERIFY IN THE FIELD

NIC — NOT INCLUDED IN CONTRACT

GR — THICKNESS

EQ. — EQUAL

4" — LEVEL CHANGE

ABBREVIATIONS

A.A.	ALL AROUND
F.F.E.	FINISH FLOOR ELEVATION
S.C.P.	SMOOTH CEMENT PLASTER
C.P.F.	CEMENT PLASTER FINISH
R.C.F.	RUBBED CONCRETE FINISH
N.I.C.	NOT INCLUDED IN CONTRACT
F.F.L.	FINISH FLOOR LEVEL
A.F.F.	ABOVE FINISH FLOOR
F.D.	FIELD DIMENSION
R.D.	ROOF DRAIN
R.L.	RAIN LEADER
℄	CENTER LINE
O.C.	ON CENTER
EQ.	EQUAL SPACE
E.F.	EXHAUST FAN
C.J.	CONSTRUCTION JOINT
E.J.	EXPANSION JOINT
WH	WATER HEATER
M.S.	5/8" MARMOLITE THRESHOLD SADDLE
M.T.S.	MARBLE THRESHOLD SADDLE
W.S.	WALL SECTION
TYP.	TYPICAL
(E)	EXISITNG
U.O.N.	UNLESS OTHERWISE NOTED
G.C.	GENERAL CONTRACTOR
D.F.	DRINKING FOUNTAIN (WATER COOLER)

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP 001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GENERAL NOTES AND SYMBOLS

SCALE:	BIDDEN DATE: OCT. 2023
DRAWN BY: Exan Melendez AIT, Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **T-200**	SHEET NO. 2 of 68

HORIZONTAL AND VERTICAL CONTROL STATIONS				
STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	237430.437	168772.797	488.880	STA 1 PK NAIL
2	237456.022	168790.747	489.048	STA 2 PK NAIL

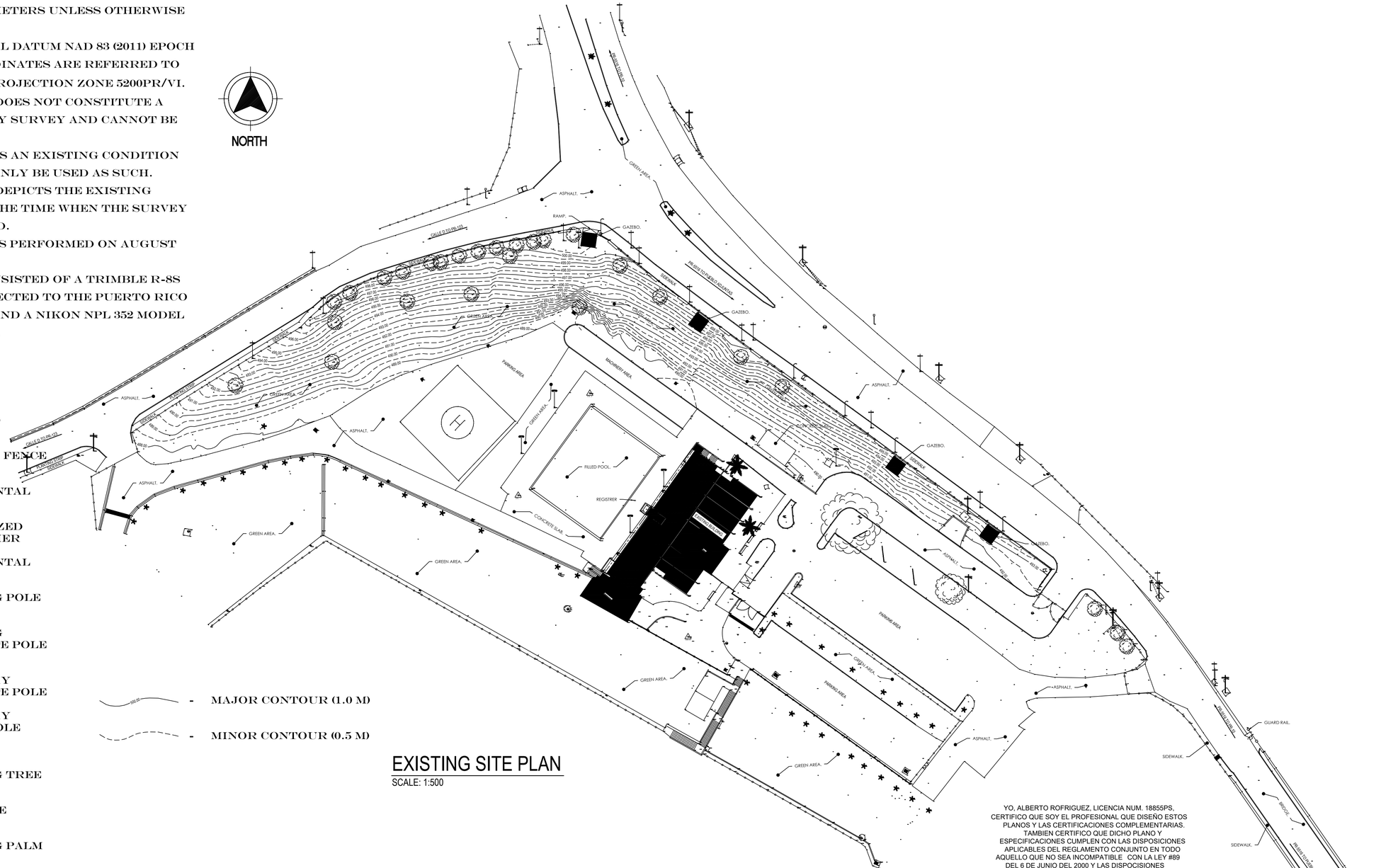
NOTES

1. ALL DISTANCE AND ELEVATION ARE EXPRESSED IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE HORIZONTAL DATUM NAD 83 (2011) EPOCH 2010. THE COORDINATES ARE REFERRED TO THE LAMBERT PROJECTION ZONE 5200PR/VI.
3. THIS DRAWING DOES NOT CONSTITUTE A LAND BOUNDARY SURVEY AND CANNOT BE USED AS SUCH.
4. THIS DRAWING IS AN EXISTING CONDITION PLAN AND CAN ONLY BE USED AS SUCH.
5. THIS DRAWING DEPICTS THE EXISTING CONDITION AT THE TIME WHEN THE SURVEY WAS PERFORMED.
6. FIELD WORK WAS PERFORMED ON AUGUST 2023.
7. EQUIPMENT CONSISTED OF A TRIMBLE R-8S ANTENNA CONNECTED TO THE PUERTO RICO VRS NETWORK AND A NIKON NPL 352 MODEL TOTAL STATION.

LEGEND

- BOLLARD
- CYCLONE FENCE
- ORNAMENTAL FENCE
- GALVANIZED TENSIONIER
- ORNAMENTAL POLE
- EXISTING POLE
- EXISTING CONCRETE POLE
- LUMINARY CONCRETE POLE
- LUMINARY METAL POLE
- SIGN
- EXISTING TREE
- MAN HOLE
- EXISTING PALM
- HYDRANT
- EXISTING BUILDING
- STATIONS
- MAJOR CONTOUR (1.0 M)
- MINOR CONTOUR (0.5 M)

NORTH



EXISTING SITE PLAN

SCALE: 1:500

YO, ALBERTO ROFRIGUEZ, LICENCIA NUM. 18855PS, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y LAS CERTIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE DICHO PLANO Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO EN TODO AQUELLO QUE NO SEA INCOMPATIBLE CON LA LEY #89 DEL 6 DE JUNIO DEL 2000 Y LAS DISPOCISIONES APLICABLES DE LOS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURIDICCION. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO SIN CONOCIMIENTO O POR NEGLIGENCIA. YA SEA POR MI. MIS AGENTES, O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DICIPLINARIA POR LA OGPE Y OTRAS AUTORIDADES COMPETENTES, INCLUYENDO, PERO SIN LIMITARSE A LA TERMINACION DE LA PARTICIPACION EN LOS PROCEDIMIENTOS DE CERTIFICACION PROFESIONAL DE LA OGPE.

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

ALBERTO RODRIGUEZ BANCHS
LAND SURVEY - LOTS INSCRIPTION - TOPOGRAPHY

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

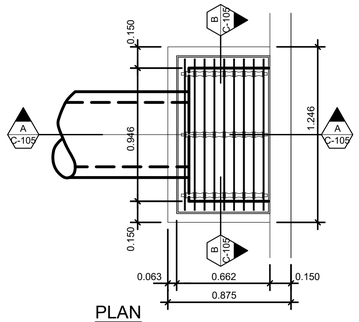
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

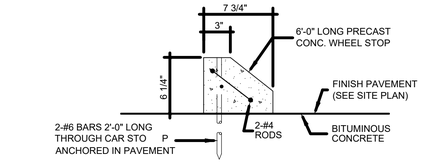
DRAWING NAME

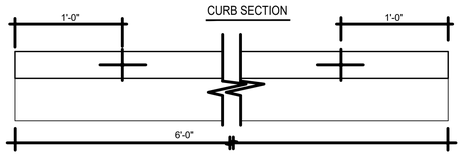
SURVEY AND TOPOGRAPHIC PLAN

SCALE: AS SHOWN	BIDDEN DATE: OCT. 2023
DRAWN BY: I.CABRERA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-101	SHEET NO. 3 of 68



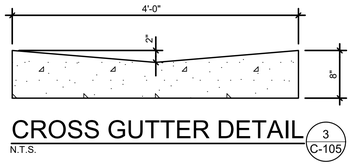
PLAN
SC.=1:20



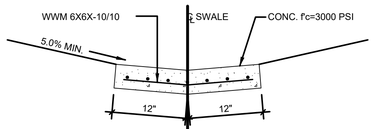


PLAN VIEW

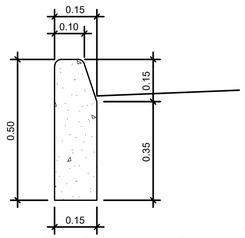
WHEEL STOP DETAIL 1 C-105
SCALE: 1 1/2"=1'-0"



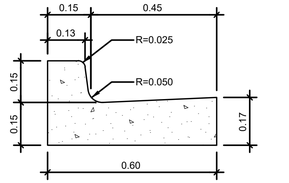
CROSS GUTTER DETAIL 3 C-105
N.T.S.



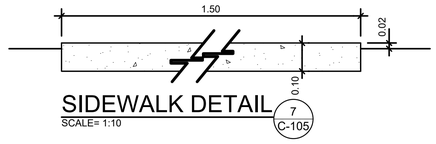
SWALE DETAIL 4 C-105
N.T.S.



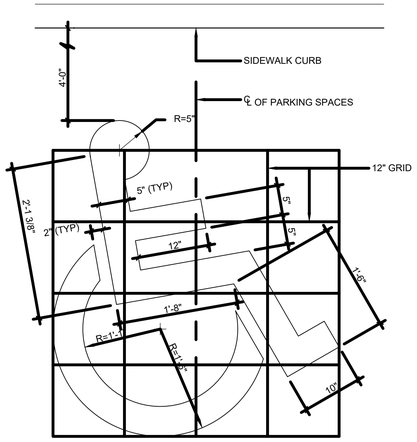
CURB DETAIL 5 C-105
SCALE= 1:10



CURB AND GUTTER 6 C-105
SCALE= 1:10

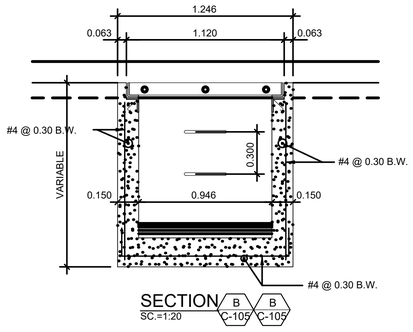


SIDEWALK DETAIL 7 C-105
SCALE= 1:10

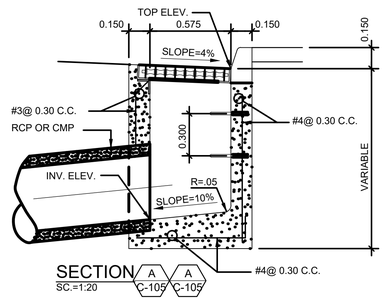


NOTES:
SYMBOL TO BE PAINTED WITH APPROVED TRAFFIC PAINT.

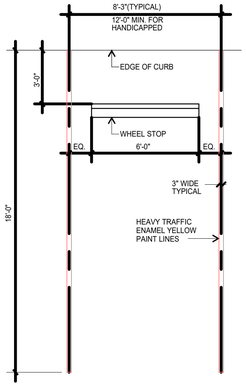
STANDARD "HANDICAPPED" SYMBOL FOR PARKING STALL 11 C-105
SCALE: 1"=1'-0"



SECTION B C-105 B C-105
SC.=1:20



SECTION A C-105 A C-105
SC.=1:20

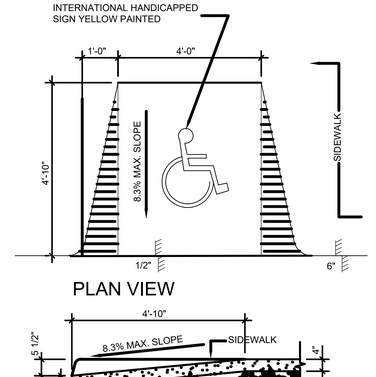


TYPICAL PARKING SPACE DETAIL 2 C-105
SCALE 1/4"=1'-0"

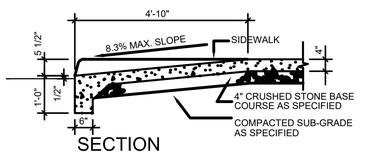
IMPORTANT NOTE:

1 - WHEELSTOP SHALL BE SUPPLIED AND INSTALLED IN ALL PARKING SPACES, WETHER SHOWN IN DRAWINGS OR NOT.

2 - USE EPOXY FOR INSTALL WHEELSTOP OVER CONCRETE SLAB AND A METAL ROD FOR INSTALL IT OVER ASPHALT. USE EPOXY "SIKA" OR APPROVED EQUAL.

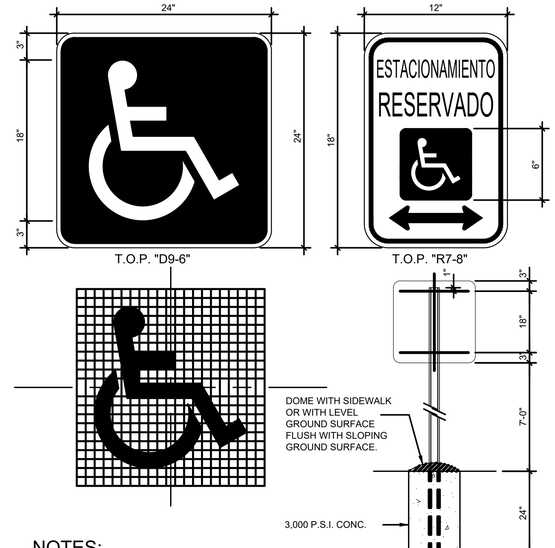


PLAN VIEW



SECTION

HANDICAPPED RAMP 9 C-105
SCALE:=1/2"=1'-0"



NOTES:
FOR SIGN DIMENSIONS REFER TO CATALOG FROM THE TRANSPORTATION LOCAL OFFICE

HANDICAPPED PARKING SIGN DETAIL 10 C-105
N.T.S.

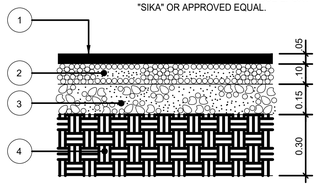
CURB INLET GENERAL NOTES

1- CONCRETE 3,000 P.S.I.

2- STEP NONE REQUIRED WHEN DEPTH IS 1.07 OR LESS. ABOVE FLOOR WHEN DEPTH IS MORE THAN 1.07. BUT LESS THAN 1.52. STEPS SHALL BE EVENLY SPACED @ 0.30 INTERVALS FROM 0.40 ABOVE FLOOR TO WITHIN 0.30 OF TOP OF THE BOX. PLACE STEPS IN WALL WITHOUT PIPE OPENING WHEN EVER POSIBLE.

3- PIPES CAN BE PLACED IN ANY WALL.

4- WHEN DEPTH IS MORE THAN 2.5 MTS. THE REINFORCEMENT OF WALL SHOULD BE #4 @ 0.20 MTS. ALTERNATES HORIZONTAL & VERTICALLY IN BOTH FACES.



1 HOT PLANT MIX BITUMINOUS ASPHALT SURFACE COURSE TYPE IV-B.

2 CRUSHED STONE 3/4"-1 1/2" S.P. 102 CLASS I MATERIAL GRADING "A".

3 CRUSHED STONE 1 1/2"-3" S.P. CLASS I MATERIAL (BASE COURSE)

4 COMPACTED SUBGRADE AT 90% OF MODIFIED PROCTOR DENSITY.

CRUSHED PAVEMENT DETAIL 8 C-105
N.T.S.

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:
PR-CRP-001035
BOULEVARD LUIS MUÑOZ MARÍN
CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GENERAL SITE DETAILS

SCALE: 1/4"=1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: I.CABRERA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **C-102**	SHEET NO. 4 of 68

IMPORTANT NOTES:

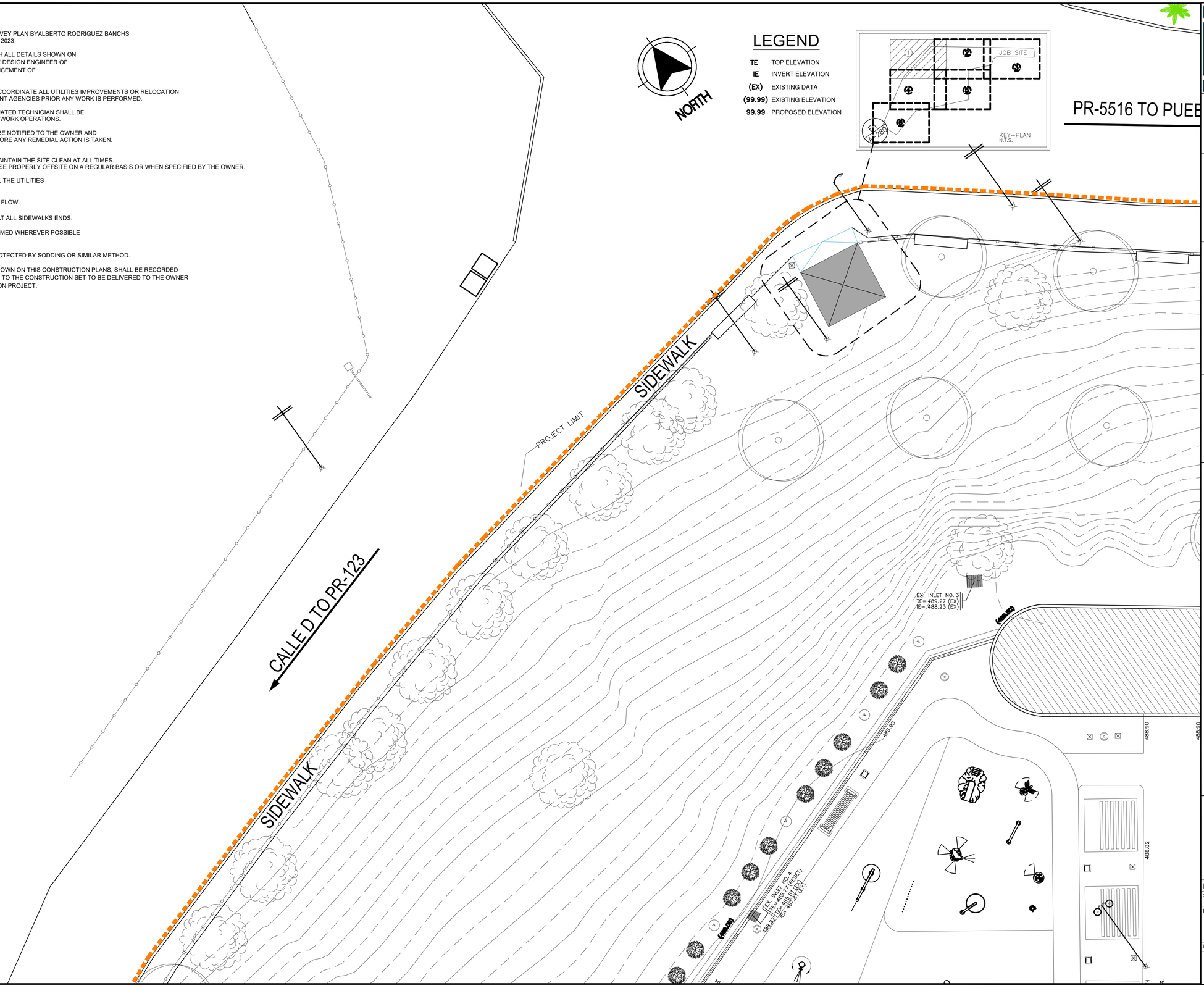
1. GRADING AND LAYOUT WAS BASED ON SURVEY PLAN BYALBERTO RODRIGUEZ BANCHS FIELD WORK WAS PERFORMED ON AUGUST 2023
2. CONTRACTOR SHALL BE FAMILIARIZED WITH ALL DETAILS SHOWN ON THIS DRAWINGS AND SHALL NOTIFY TO THE DESIGN ENGINEER OF ANY DISCREPANCY PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITIES IMPROVEMENTS OR RELOCATION WORKS WITH THE CONCERNED GOVERNMENT AGENCIES PRIOR ANY WORK IS PERFORMED.
4. A GEOTHECNNICAL ENGINEER OR A DESIGNATED TECHNICIAN SHALL BE PRESENT AT ALL TIMES DURING THE EARTHWORK OPERATIONS.
5. ANY UNFORESEEN SITE CONDITION SHALL BE NOTIFIED TO THE OWNER AND THE ENGINEER IN CHARGE IN WRITING, BEFORE ANY REMEDIAL ACTION IS TAKEN.
6. SITE AND BUILDING CONTRACTOR SHALL MAINTAIN THE SITE CLEAN AT ALL TIMES. ALL DEBRIS MUST BE REMOVED AND DISPOSE PROPERLY OFFSITE ON A REGULAR BASIS OR WHEN SPECIFIED BY THE OWNER..
7. SITE CONTRACTOR SHALL COORDINATE ALL THE UTILITIES CONNECTION BEFORE ANY WORK IS DONE.
8. ARROWS ON SWALES SHOW DIRECTION OF FLOW.
9. WHEEL CHAIR RAMPS SHALL BE LOCATED AT ALL SIDEWALKS ENDS.
10. FLATTENING OF SLOPES SHALL BE PERFORMED WHEREVER POSSIBLE AS DIRECTED BY FIELD ENGINEER.
11. ALL TALUS AND BARE AREAS, SHALL BE PROTECTED BY SODDING OR SIMILAR METHOD.
14. ANY VARIATION OF THE IMPROVEMENTS SHOWN ON THIS CONSTRUCTION PLANS, SHALL BE RECORDED BY THE CONTRACTOR AND INCORPORATED TO THE CONSTRUCTION SET TO BE DELIVERED TO THE OWNER AT THE COMPLETION OF THE CONSTRUCTION PROJECT.

NORTH

LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

PR-5516 TO PUEB



APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: 12/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-103	SHEET NO. 5 of 68

PR-5516 TO PUEBLO ADJUNTAS

EI A-280

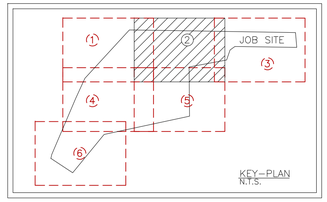
IMPORTANT NOTES:

1. GRADING AND LAYOUT WAS BASED ON SURVEY PLAN BYALBERTO RODRIGUEZ BANCHS FIELD WORK WAS PERFORMED ON AUGUST 2023
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LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

NORTH



ELECTRICAL SUBSTATION

EX. INLET NO. 1
TE= 489.57 (EX)
IE= 488.97 (EX)

EX. INLET NO. 2
TE= 489.26 (EX)
IE= 488.56 (EX)

MECHANICAL ROOM

488.90

488.82

STA. 2

(488.84)

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

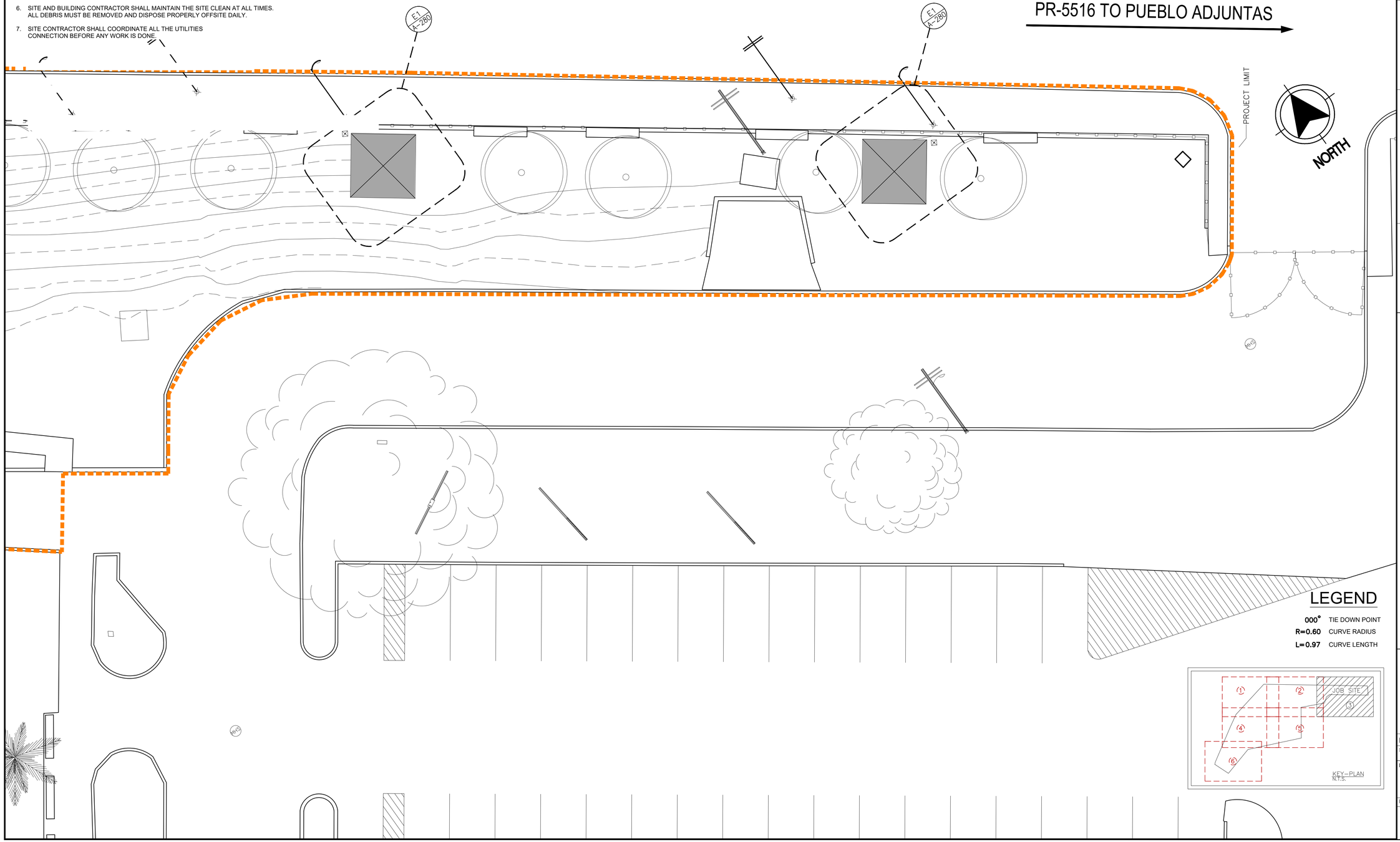
DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: 12/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-104	SHEET NO. 6 of 68

IMPORTANT NOTES:

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TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

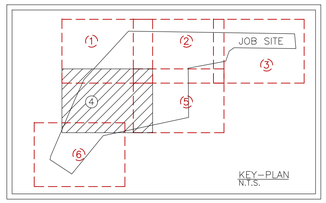
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-105	SHEET NO. 7 of 68

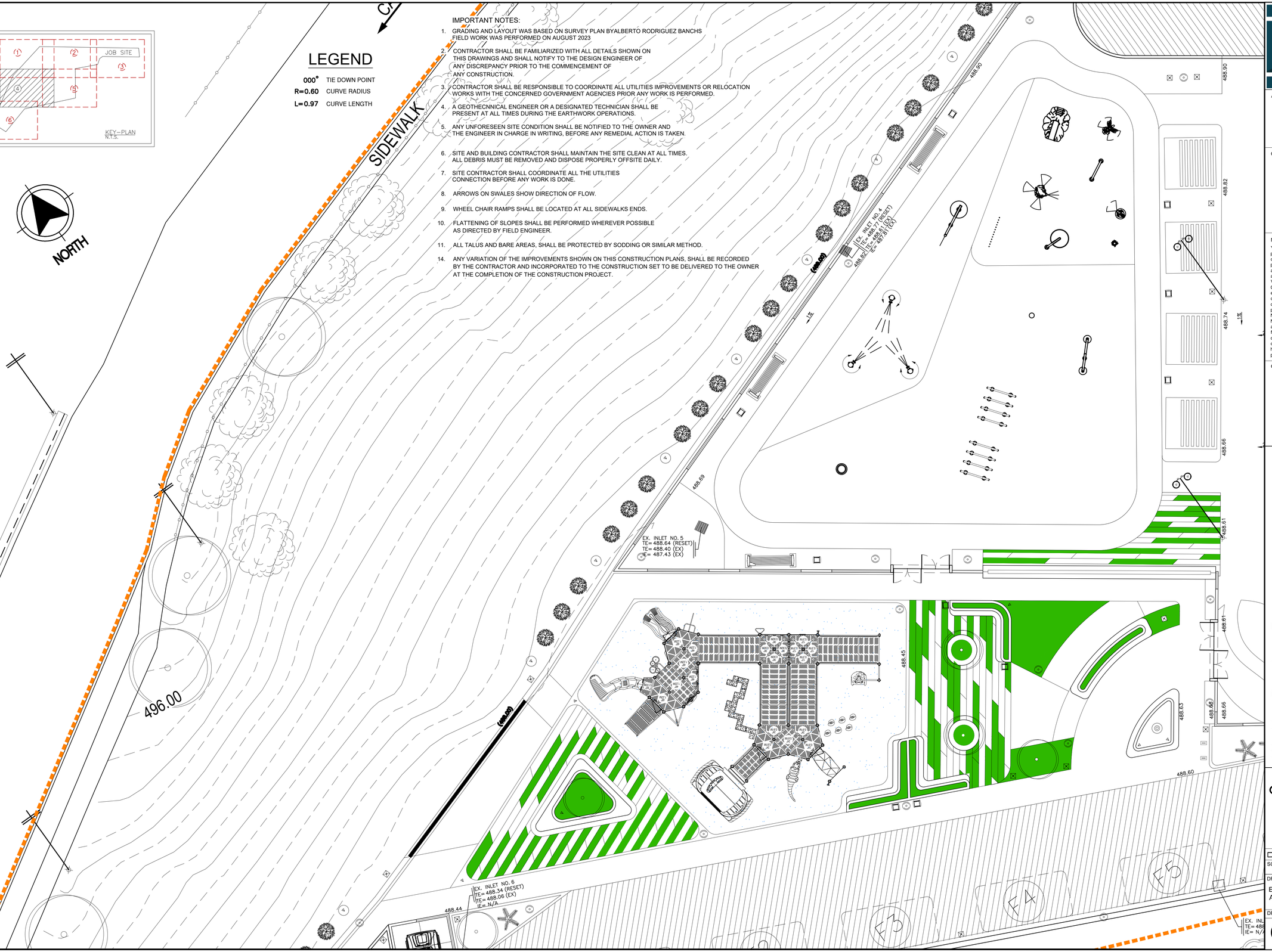


LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

IMPORTANT NOTES:

1. GRADING AND LAYOUT WAS BASED ON SURVEY PLAN BYALBERTO RODRIGUEZ BANCHS FIELD WORK WAS PERFORMED ON AUGUST 2023
2. CONTRACTOR SHALL BE FAMILIARIZED WITH ALL DETAILS SHOWN ON THIS DRAWINGS AND SHALL NOTIFY TO THE DESIGN ENGINEER OF ANY DISCREPANCY PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITIES IMPROVEMENTS OR RELOCATION WORKS WITH THE CONCERNED GOVERNMENT AGENCIES PRIOR ANY WORK IS PERFORMED.
4. A GEOTHECNNICAL ENGINEER OR A DESIGNATED TECHNICIAN SHALL BE PRESENT AT ALL TIMES DURING THE EARTHWORK OPERATIONS.
5. ANY UNFORESEEN SITE CONDITION SHALL BE NOTIFIED TO THE OWNER AND THE ENGINEER IN CHARGE IN WRITING, BEFORE ANY REMEDIAL ACTION IS TAKEN.
6. SITE AND BUILDING CONTRACTOR SHALL MAINTAIN THE SITE CLEAN AT ALL TIMES. ALL DEBRIS MUST BE REMOVED AND DISPOSE PROPERLY OFFSITE DAILY.
7. SITE CONTRACTOR SHALL COORDINATE ALL THE UTILITIES CONNECTION BEFORE ANY WORK IS DONE.
8. ARROWS ON SWALES SHOW DIRECTION OF FLOW.
9. WHEEL CHAIR RAMPS SHALL BE LOCATED AT ALL SIDEWALKS ENDS.
10. FLATTENING OF SLOPES SHALL BE PERFORMED WHEREVER POSSIBLE AS DIRECTED BY FIELD ENGINEER.
11. ALL TALUS AND BARE AREAS, SHALL BE PROTECTED BY SODDING OR SIMILAR METHOD.
14. ANY VARIATION OF THE IMPROVEMENTS SHOWN ON THIS CONSTRUCTION PLANS, SHALL BE RECORDED BY THE CONTRACTOR AND INCORPORATED TO THE CONSTRUCTION SET TO BE DELIVERED TO THE OWNER AT THE COMPLETION OF THE CONSTRUCTION PROJECT.



TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

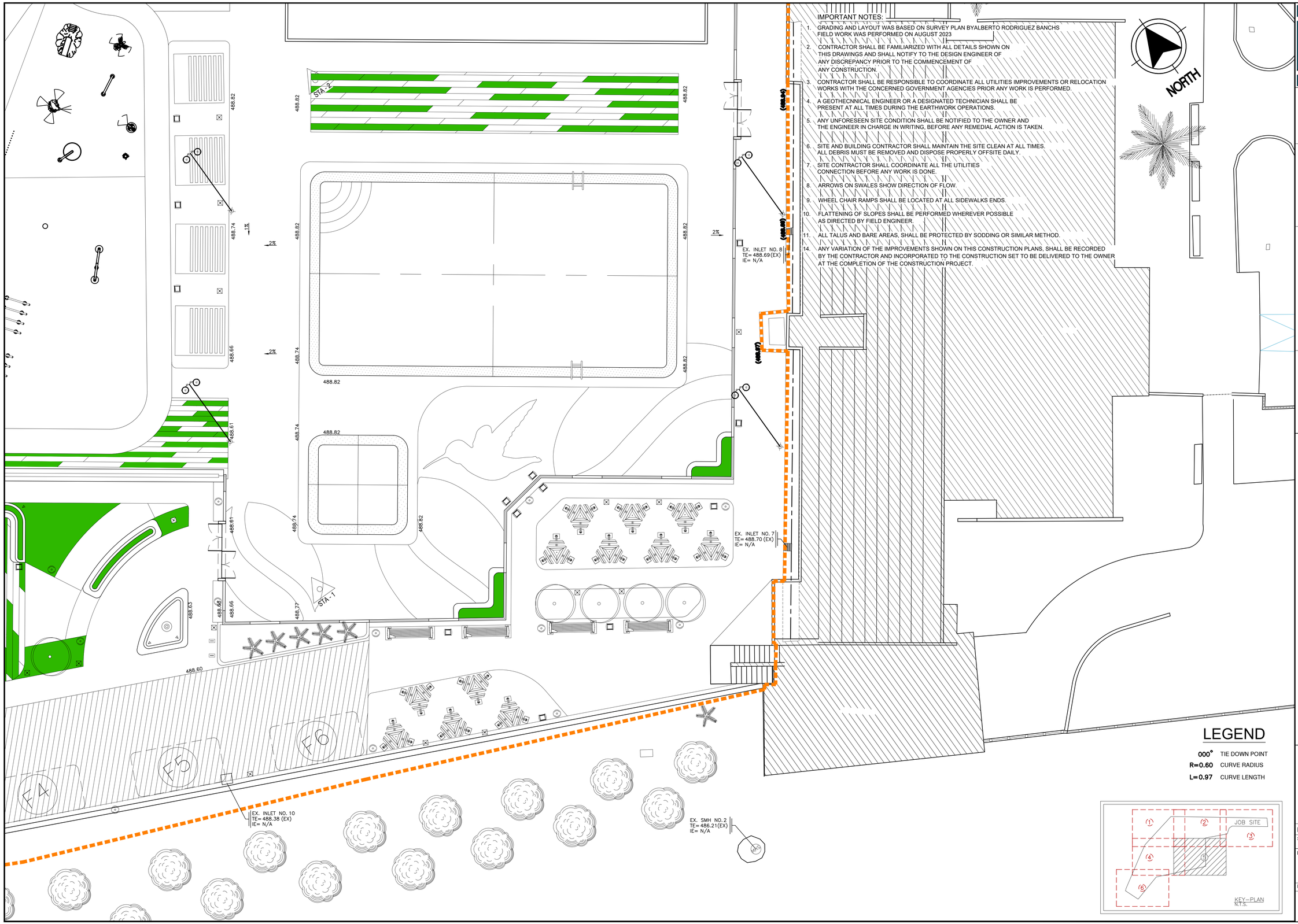
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-106	SHEET NO. 8 of 68



IMPORTANT NOTES:

1. GRADING AND LAYOUT WAS BASED ON SURVEY PLAN BYALBERTO RODRIGUEZ BANCHS FIELD WORK WAS PERFORMED ON AUGUST 2023
2. CONTRACTOR SHALL BE FAMILIARIZED WITH ALL DETAILS SHOWN ON THIS DRAWINGS AND SHALL NOTIFY TO THE DESIGN ENGINEER OF ANY DISCREPANCY PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
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LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

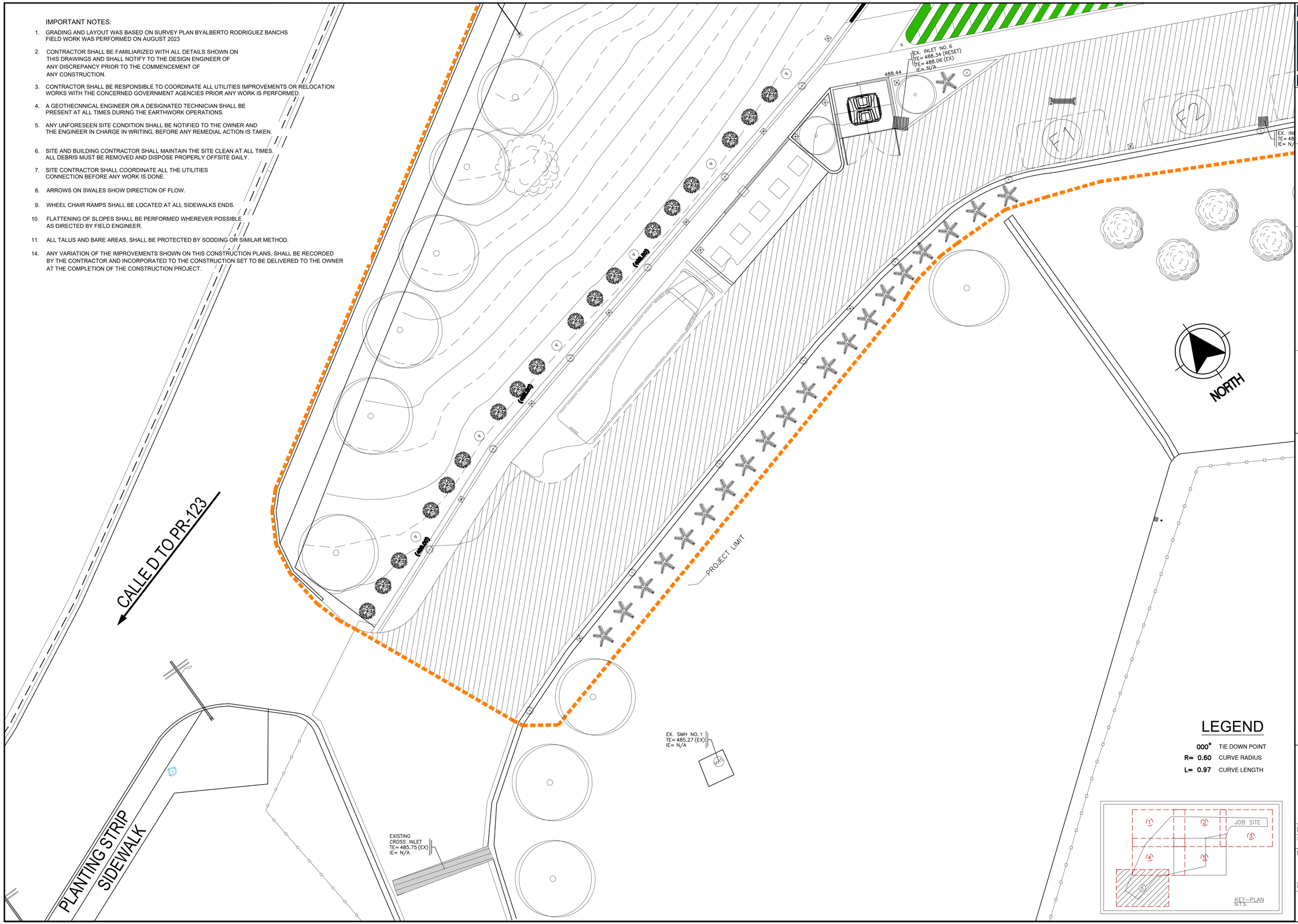
DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-107	SHEET NO. 9 of 68

IMPORTANT NOTES:

1. GRADING AND LAYOUT WAS BASED ON SURVEY PLAN BYALBERTO RODRIGUEZ BANCHS FIELD WORK WAS PERFORMED ON AUGUST 2023
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LEGEND

000°	TIE DOWN POINT
R= 0.60	CURVE RADIUS
L= 0.97	CURVE LENGTH

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

LEGEND

TE	TOP ELEVATION
IE	INVERT ELEVATION
(EX)	EXISTING DATA
(99.99)	EXISTING ELEVATION
99.99	PROPOSED ELEVATION

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-108	SHEET NO. 10 of 68

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
1	237446.1281	168815.4854	TO BE ESTABLISHED
2	237441.0272	168811.7880	TO BE ESTABLISHED
3	237440.8484	168812.0348	TO BE ESTABLISHED
4	237437.8869	168809.8881	TO BE ESTABLISHED
5	237438.0658	168809.6414	TO BE ESTABLISHED
6	237421.1638	168797.3897	TO BE ESTABLISHED
7	237428.1018	168787.8182	TO BE ESTABLISHED
8	237427.6361	168784.8985	TO BE ESTABLISHED
9	237422.2506	168780.9948	TO BE ESTABLISHED
10	237427.0119	168774.0882	TO BE ESTABLISHED
11	237432.1207	168766.6776	TO BE ESTABLISHED
12	237434.3032	168768.2596	TO BE ESTABLISHED
13	237434.4821	168768.0128	TO BE ESTABLISHED
14	237437.4435	168770.1594	TO BE ESTABLISHED
15	237437.2647	168770.4062	TO BE ESTABLISHED
16	237439.4623	168771.9992	TO BE ESTABLISHED
17	237448.7303	168759.1530	TO BE ESTABLISHED
18	237450.6979	168756.4386	TO BE ESTABLISHED
19	237460.4373	168742.9237	TO BE ESTABLISHED
20	237474.0869	168782.1760	TO BE ESTABLISHED
21	237472.8909	168785.7834	TO BE ESTABLISHED
22	237441.0054	168676.7586	TO BE ESTABLISHED
23	237442.5344	168679.4357	TO BE ESTABLISHED
24	237439.7119	168680.5864	TO BE ESTABLISHED
25	237443.7585	168690.5118	TO BE ESTABLISHED
26	237447.9020	168707.0402	TO BE ESTABLISHED
27	237450.1254	168715.9098	TO BE ESTABLISHED
28	237451.0978	168719.7886	TO BE ESTABLISHED
29	237449.5536	168723.1042	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
30	237446.4192	168729.8340	TO BE ESTABLISHED
31	237426.1136	168773.4315	TO BE ESTABLISHED
32	237426.4416	168773.6748	TO BE ESTABLISHED
33	237426.3438	168773.3001	TO BE ESTABLISHED
34	237430.0611	168765.2573	TO BE ESTABLISHED
35	237430.5166	168765.1384	TO BE ESTABLISHED
36	237432.4172	168766.5160	TO BE ESTABLISHED
37	237432.3873	168763.9325	TO BE ESTABLISHED
38	237432.4853	168764.3067	TO BE ESTABLISHED
39	237434.9161	168766.0686	TO BE ESTABLISHED
40	237435.3977	168765.8569	TO BE ESTABLISHED
41	237433.9490	168761.5356	TO BE ESTABLISHED
42	237433.4516	168761.6187	TO BE ESTABLISHED
43	237435.0083	168758.2347	TO BE ESTABLISHED
44	237450.7348	168724.0472	TO BE ESTABLISHED
45	237458.3880	168742.9674	TO BE ESTABLISHED
46	237441.8274	168765.9226	TO BE ESTABLISHED
47	237439.5638	168769.0603	TO BE ESTABLISHED
48	237439.1377	168769.1288	TO BE ESTABLISHED
49	237438.2574	168768.4906	TO BE ESTABLISHED
50	237437.9174	168761.6543	TO BE ESTABLISHED
51	237436.4452	168759.4872	TO BE ESTABLISHED
52	237440.4873	168759.9802	TO BE ESTABLISHED
53	237446.7305	168744.8693	TO BE ESTABLISHED
54	237451.0950	168748.0181	TO BE ESTABLISHED
55	237439.9204	168677.8681	TO BE ESTABLISHED
56	237444.9201	168690.1315	TO BE ESTABLISHED
57	237452.4743	168720.2657	TO BE ESTABLISHED
58	237457.6467	168736.2578	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
59	237462.2203	168752.3667	TO BE ESTABLISHED
60	237460.7804	168752.8675	TO BE ESTABLISHED
61	237458.8914	168753.5244	TO BE ESTABLISHED
62	237457.2720	168752.3506	TO BE ESTABLISHED
63	237456.0381	168751.4561	TO BE ESTABLISHED
64	237458.2034	168749.4511	TO BE ESTABLISHED
65	237460.7093	168749.8175	TO BE ESTABLISHED
66	237444.6426	168767.1772	TO BE ESTABLISHED
67	237445.9173	168768.0153	TO BE ESTABLISHED
68	237447.7700	168769.3583	TO BE ESTABLISHED
69	237446.4594	168771.2341	TO BE ESTABLISHED
70	237445.2714	168772.2376	TO BE ESTABLISHED
71	237462.9849	168784.6413	TO BE ESTABLISHED
72	237463.6210	168783.2393	TO BE ESTABLISHED
73	237464.8781	168781.4458	TO BE ESTABLISHED
74	237466.5509	168782.8595	TO BE ESTABLISHED
75	237467.7149	168783.8433	TO BE ESTABLISHED
76	237470.8010	168786.4514	TO BE ESTABLISHED
77	237470.3252	168782.4389	TO BE ESTABLISHED
78	237468.7876	168781.2638	TO BE ESTABLISHED
79	237470.8010	168786.4514	TO BE ESTABLISHED
80	237468.1259	168779.5589	TO BE ESTABLISHED
81	237469.8533	168778.9583	TO BE ESTABLISHED
82	237471.8373	168780.0222	TO BE ESTABLISHED
83	237463.0392	168785.0534	TO BE ESTABLISHED
84	237461.2146	168787.6125	TO BE ESTABLISHED
85	237460.7883	168787.6829	TO BE ESTABLISHED
86	237462.5209	168788.9304	TO BE ESTABLISHED
87	237458.1403	168785.3781	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
88	237459.8721	168782.8699	TO BE ESTABLISHED
89	237454.0189	168782.5112	TO BE ESTABLISHED
90	237455.7507	168780.0030	TO BE ESTABLISHED
91	237449.5594	168779.3132	TO BE ESTABLISHED
92	237451.3483	168776.8454	TO BE ESTABLISHED
93	237445.4843	168776.3810	TO BE ESTABLISHED
94	237447.2731	168773.9131	TO BE ESTABLISHED
95	237446.5826	168773.5447	TO BE ESTABLISHED
96	237444.8996	168775.8665	TO BE ESTABLISHED
97	237445.0300	168776.3375	TO BE ESTABLISHED
98	237450.8811	168786.6943	TO BE ESTABLISHED
99	237450.3445	168787.4347	TO BE ESTABLISHED
100	237451.0848	168787.9713	TO BE ESTABLISHED
101	237438.9206	168804.7528	TO BE ESTABLISHED
102	237438.1803	168804.2161	TO BE ESTABLISHED
103	237437.6436	168804.9565	TO BE ESTABLISHED
104	237429.0050	168798.6947	TO BE ESTABLISHED
105	237429.5417	168797.9543	TO BE ESTABLISHED
106	237428.8013	168797.4177	TO BE ESTABLISHED
107	237440.9655	168780.6363	TO BE ESTABLISHED
108	237441.7059	168781.1729	TO BE ESTABLISHED
109	237442.2425	168780.4326	TO BE ESTABLISHED
110	237437.8001	168777.2124	TO BE ESTABLISHED
111	237437.2634	168777.9527	TO BE ESTABLISHED
112	237438.0038	168778.4894	TO BE ESTABLISHED
113	237435.4994	168781.9444	TO BE ESTABLISHED
114	237434.7590	168781.4077	TO BE ESTABLISHED
115	237434.2223	168782.1481	TO BE ESTABLISHED
116	237430.7673	168779.6437	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
117	237431.3040	168778.9034	TO BE ESTABLISHED
118	237430.5636	168778.3667	TO BE ESTABLISHED
119	237433.0680	168774.9117	TO BE ESTABLISHED
120	237433.8084	168775.4484	TO BE ESTABLISHED
121	237434.3450	168774.7080	TO BE ESTABLISHED
122	237423.2851	168771.3335	TO BE ESTABLISHED
123	237423.3802	168771.7062	TO BE ESTABLISHED
124	237420.3140	168778.3361	TO BE ESTABLISHED
125	237417.3337	168780.4426	TO BE ESTABLISHED
126	237415.2647	168780.6354	TO BE ESTABLISHED
127	237420.8580	168783.0148	TO BE ESTABLISHED
128	237421.7177	168782.8672	TO BE ESTABLISHED
129	237422.2114	168783.2251	TO BE ESTABLISHED
130	237422.3555	168784.0647	TO BE ESTABLISHED
131	237417.2995	168791.3988	TO BE ESTABLISHED
132	237416.2001	168791.1736	TO BE ESTABLISHED
133	237416.0322	168790.3432	TO BE ESTABLISHED
134	237416.1278	168789.8764	TO BE ESTABLISHED
135	237417.1585	168793.7514	TO BE ESTABLISHED
136	237423.3266	168784.8042	TO BE ESTABLISHED
137	237424.1863	168784.6566	TO BE ESTABLISHED
138	237425.7450	168785.7864	TO BE ESTABLISHED
139	237425.9892	168786.1840	TO BE ESTABLISHED
140	237426.2725	168787.9602	TO BE ESTABLISHED
141	237426.1641	168788.4140	TO BE ESTABLISHED
142	237420.5344	168796.1806	TO BE ESTABLISHED
143	237419.6830	168796.3164	TO BE ESTABLISHED
144	237417.3026	168794.5910	TO BE ESTABLISHED
145	237447.0111	168716.6905	TO BE ESTABLISHED
146	237446.9020	168717.8344	TO BE ESTABLISHED
147	237446.7142	168721.7818	TO BE ESTABLISHED
148	237446.2808	168722.0635	TO BE ESTABLISHED

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C1	5.35	3.05	100°35'37"
C2	5.59	3.81	83°54'55"
C3	2.89	3.71	44°30'34"
C4	2.33	3.71	35°56'00"
C5	3.03	4.04	43°02'11"
C6	3.27	1.83	102°24'47"
C7	3.82	3.66	59°51'18"

LEGEND

000° TIE DOWN POINT
R=0.60 CURVE RADIUS
L=0.97 CURVE LENGTH

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GRADING PLAN

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-109	SHEET NO. 11 of 68

LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

NORTH

JOB SITE

KEY—PLAN
N.T.S.

PR-5516 TO PUEB

PROJECT LIMIT

SIDEWALK

CALLE D TO PR-123

SIDEWALK

EX. INLET NO. 3
TE= 489.27
IE= 488.23

EX. INLET NO. 4
TE= 486.61
IE= 485.61

20 21 76 C6 77 82 C5 75 C3 78 81 74 C1 C2 86 80 79 72 83 71 84 85 L1 88 87 90 89

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC
LAYOUT PLAN 1

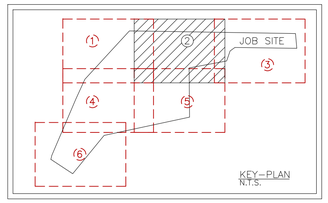
SCALE: 1:100	BIDDEN DATE: 12/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-110	SHEET NO. 12 of 68

PR-5516 TO PUEBLO ADJUNTAS

LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

NORTH



E-1
A-280

ELECTRICAL SUBSTATION

EX. INLET NO. 1
TE= 489.57
IE= 488.97

EX. INLET NO. 2
TE= 489.26
IE= 488.56

EX. INLET NO. 3
TE= 489.27
IE= 488.23

MECHANICAL ROOM

STA. 2

R= 0.90
L= 1.44

R= 0.90
L= 1.44

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC LAYOUT PLAN 2

SCALE: 1:100	BIDDEN DATE: 12/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **C-111**	SHEET NO. 13 of 68

PR-5516 TO PUEBLO ADJUNTAS

PROJECT LIMIT

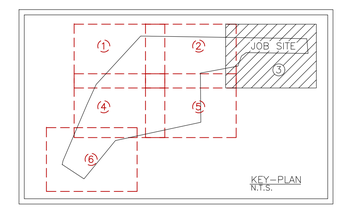
NORTH

E1
A-280

E1
A-280

LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH



TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

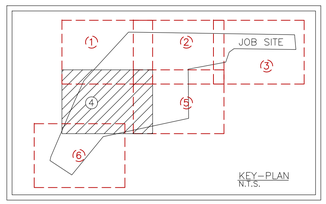
BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC
LAYOUT PLAN 3

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. C-112	SHEET NO. 14 of 68



LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

NORTH

SIDEWALK

EX. INLET NO. 4
TE= 488.61
IE= 487.61

EX. INLET NO. 5
TE= 488.30 (R)
TE= 488.40
IE= 487.43

496.00

R= 0.30
L= 0.53

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

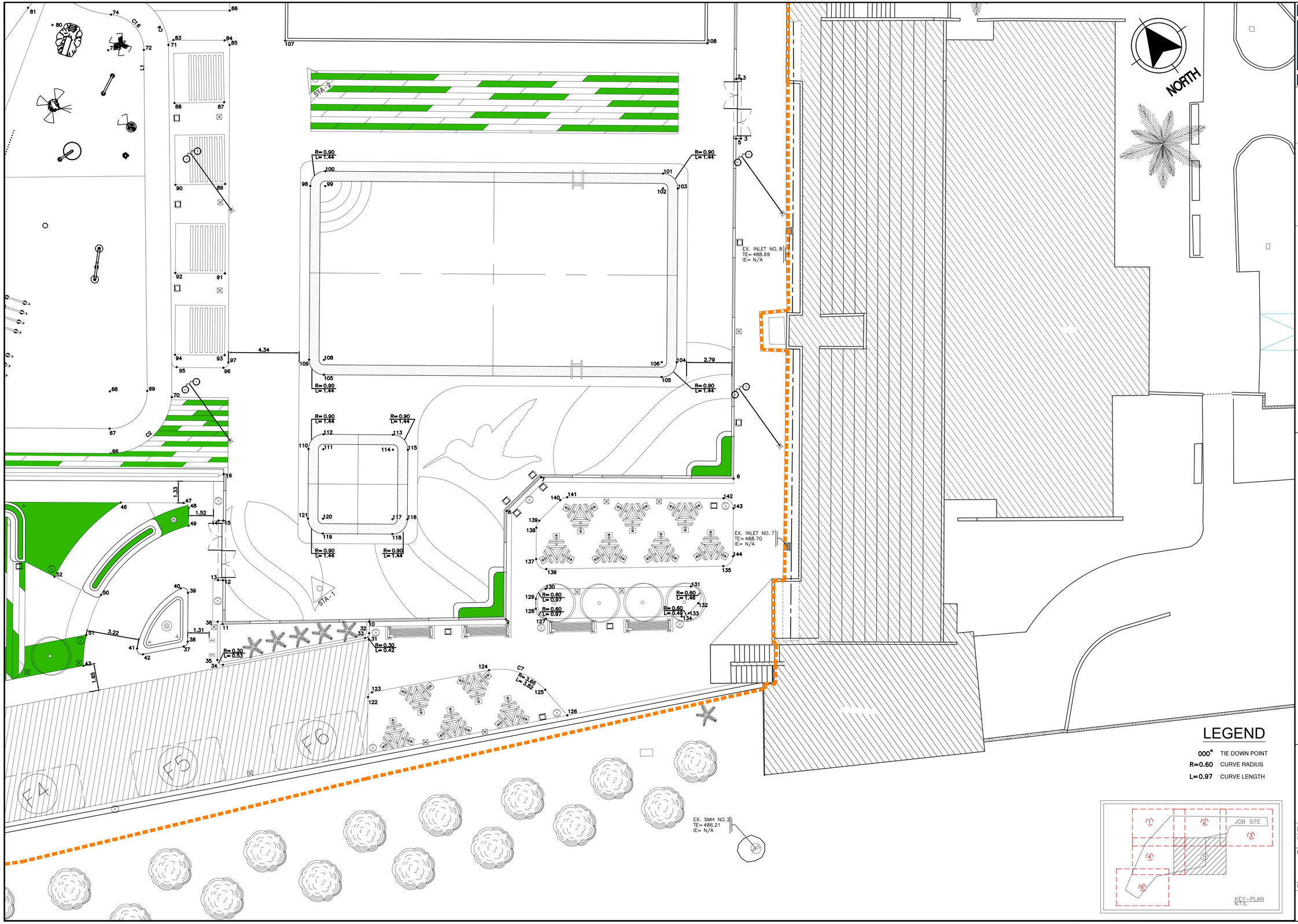
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC LAYOUT PLAN 4

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **C-113**	SHEET NO. 15 of 68



LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC LAYOUT PLAN 5

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **C-114**	SHEET NO. 16 of 68

R=
L=

CALLE D TO PR-123

PLANTING STRIP
SIDEWALK

PROJECT LIMIT

EX. INLET NO. 6
TE= 488.06
IE= N/A

EX. IN
TE= 48
IE= N/

EX. SMH NO. 1
TE= 485.27
IE= N/A

EXISTING
CROSS INLET
TE= 485.75
IE= N/A

2.82
1.47
1.22
C1

57 29 28 27 26 25 24 22 56 55 147 148 145 146 44 30

LEGEND

000°	TIE DOWN POINT
R= 0.60	CURVE RADIUS
L= 0.97	CURVE LENGTH

NORTH

JOB SITE

KEY—PLAN
N.T.S.

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC LAYOUT PLAN 6

SCALE: 1:100	BIDDEN DATE: DEC/23
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **C-115**	SHEET NO. 17 of 68

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
1	237446.1281	168815.4854	TO BE ESTABLISHED
2	237441.0272	168811.7880	TO BE ESTABLISHED
3	237440.8484	168812.0348	TO BE ESTABLISHED
4	237437.8869	168809.8881	TO BE ESTABLISHED
5	237438.0658	168809.6414	TO BE ESTABLISHED
6	237421.1638	168797.3897	TO BE ESTABLISHED
7	237428.1018	168787.8182	TO BE ESTABLISHED
8	237427.6361	168784.8985	TO BE ESTABLISHED
9	237422.2506	168780.9948	TO BE ESTABLISHED
10	237427.0119	168774.0882	TO BE ESTABLISHED
11	237432.1207	168766.6776	TO BE ESTABLISHED
12	237434.3032	168768.2596	TO BE ESTABLISHED
13	237434.4821	168768.0128	TO BE ESTABLISHED
14	237437.4435	168770.1594	TO BE ESTABLISHED
15	237437.2647	168770.4062	TO BE ESTABLISHED
16	237439.4623	168771.9992	TO BE ESTABLISHED
17	237448.7303	168759.1530	TO BE ESTABLISHED
18	237450.6979	168756.4386	TO BE ESTABLISHED
19	237460.4373	168742.9237	TO BE ESTABLISHED
20	237474.0869	168782.1760	TO BE ESTABLISHED
21	237472.8909	168785.7834	TO BE ESTABLISHED
22	237441.0054	168676.7586	TO BE ESTABLISHED
23	237442.5344	168679.4357	TO BE ESTABLISHED
24	237439.7119	168680.5864	TO BE ESTABLISHED
25	237443.7585	168690.5118	TO BE ESTABLISHED
26	237447.9020	168707.0402	TO BE ESTABLISHED
27	237450.1254	168715.9098	TO BE ESTABLISHED
28	237451.0978	168719.7886	TO BE ESTABLISHED
29	237449.5536	168723.1042	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
30	237446.4192	168729.8340	TO BE ESTABLISHED
31	237426.1136	168773.4315	TO BE ESTABLISHED
32	237426.4416	168773.6748	TO BE ESTABLISHED
33	237426.3438	168773.3001	TO BE ESTABLISHED
34	237430.0611	168765.2573	TO BE ESTABLISHED
35	237430.5166	168765.1384	TO BE ESTABLISHED
36	237432.4172	168766.5160	TO BE ESTABLISHED
37	237432.3873	168763.9325	TO BE ESTABLISHED
38	237432.4853	168764.3067	TO BE ESTABLISHED
39	237434.9161	168766.0686	TO BE ESTABLISHED
40	237435.3977	168765.8569	TO BE ESTABLISHED
41	237433.9490	168761.5356	TO BE ESTABLISHED
42	237433.4516	168761.6187	TO BE ESTABLISHED
43	237435.0083	168758.2347	TO BE ESTABLISHED
44	237450.7348	168724.0472	TO BE ESTABLISHED
45	237458.3880	168742.9674	TO BE ESTABLISHED
46	237441.8274	168765.9226	TO BE ESTABLISHED
47	237439.5638	168769.0603	TO BE ESTABLISHED
48	237439.1377	168769.1288	TO BE ESTABLISHED
49	237438.2574	168768.4906	TO BE ESTABLISHED
50	237437.9174	168761.6543	TO BE ESTABLISHED
51	237436.4452	168759.4872	TO BE ESTABLISHED
52	237440.4873	168759.9802	TO BE ESTABLISHED
53	237446.7305	168744.8693	TO BE ESTABLISHED
54	237451.0950	168748.0181	TO BE ESTABLISHED
55	237439.9204	168677.8681	TO BE ESTABLISHED
56	237444.9201	168690.1315	TO BE ESTABLISHED
57	237452.4743	168720.2657	TO BE ESTABLISHED
58	237457.6467	168736.2578	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
59	237462.2203	168752.3667	TO BE ESTABLISHED
60	237460.7804	168752.8675	TO BE ESTABLISHED
61	237458.8914	168753.5244	TO BE ESTABLISHED
62	237457.2720	168752.3506	TO BE ESTABLISHED
63	237456.0381	168751.4561	TO BE ESTABLISHED
64	237458.2034	168749.4511	TO BE ESTABLISHED
65	237460.7093	168749.8175	TO BE ESTABLISHED
66	237444.6426	168767.1772	TO BE ESTABLISHED
67	237445.9173	168768.0153	TO BE ESTABLISHED
68	237447.7700	168769.3583	TO BE ESTABLISHED
69	237446.4594	168771.2341	TO BE ESTABLISHED
70	237445.2714	168772.2376	TO BE ESTABLISHED
71	237462.9849	168784.6413	TO BE ESTABLISHED
72	237463.6210	168783.2393	TO BE ESTABLISHED
73	237464.8781	168781.4458	TO BE ESTABLISHED
74	237466.5509	168782.8595	TO BE ESTABLISHED
75	237467.7149	168783.8433	TO BE ESTABLISHED
76	237470.8010	168786.4514	TO BE ESTABLISHED
77	237470.3252	168782.4389	TO BE ESTABLISHED
78	237468.7876	168781.2638	TO BE ESTABLISHED
79	237470.8010	168786.4514	TO BE ESTABLISHED
80	237468.1259	168779.5589	TO BE ESTABLISHED
81	237469.8533	168778.9583	TO BE ESTABLISHED
82	237471.8373	168780.0222	TO BE ESTABLISHED
83	237463.0392	168785.0534	TO BE ESTABLISHED
84	237461.2146	168787.6125	TO BE ESTABLISHED
85	237460.7883	168787.6829	TO BE ESTABLISHED
86	237462.5209	168788.9304	TO BE ESTABLISHED
87	237458.1403	168785.3781	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
88	237459.8721	168782.8699	TO BE ESTABLISHED
89	237454.0189	168782.5112	TO BE ESTABLISHED
90	237455.7507	168780.0030	TO BE ESTABLISHED
91	237449.5594	168779.3132	TO BE ESTABLISHED
92	237451.3483	168776.8454	TO BE ESTABLISHED
93	237445.4843	168776.3810	TO BE ESTABLISHED
94	237447.2731	168773.9131	TO BE ESTABLISHED
95	237446.5826	168773.5447	TO BE ESTABLISHED
96	237444.8996	168775.8665	TO BE ESTABLISHED
97	237445.0300	168776.3375	TO BE ESTABLISHED
98	237450.8811	168786.6943	TO BE ESTABLISHED
99	237450.3445	168787.4347	TO BE ESTABLISHED
100	237451.0848	168787.9713	TO BE ESTABLISHED
101	237438.9206	168804.7528	TO BE ESTABLISHED
102	237438.1803	168804.2161	TO BE ESTABLISHED
103	237437.6436	168804.9565	TO BE ESTABLISHED
104	237429.0050	168798.6947	TO BE ESTABLISHED
105	237429.5417	168797.9543	TO BE ESTABLISHED
106	237428.8013	168797.4177	TO BE ESTABLISHED
107	237440.9655	168780.6363	TO BE ESTABLISHED
108	237441.7059	168781.1729	TO BE ESTABLISHED
109	237442.2425	168780.4326	TO BE ESTABLISHED
110	237437.8001	168777.2124	TO BE ESTABLISHED
111	237437.2634	168777.9527	TO BE ESTABLISHED
112	237438.0038	168778.4894	TO BE ESTABLISHED
113	237435.4994	168781.9444	TO BE ESTABLISHED
114	237434.7590	168781.4077	TO BE ESTABLISHED
115	237434.2223	168782.1481	TO BE ESTABLISHED
116	237430.7673	168779.6437	TO BE ESTABLISHED

TIE DOWN POINTS

No.	NORTHING	EASTING	DESCRIPTION
117	237431.3040	168778.9034	TO BE ESTABLISHED
118	237430.5636	168778.3667	TO BE ESTABLISHED
119	237433.0680	168774.9117	TO BE ESTABLISHED
120	237433.8084	168775.4484	TO BE ESTABLISHED
121	237434.3450	168774.7080	TO BE ESTABLISHED
122	237423.2851	168771.3335	TO BE ESTABLISHED
123	237423.3802	168771.7062	TO BE ESTABLISHED
124	237420.3140	168778.3361	TO BE ESTABLISHED
125	237417.3337	168780.4426	TO BE ESTABLISHED
126	237415.2647	168780.6354	TO BE ESTABLISHED
127	237420.8580	168783.0148	TO BE ESTABLISHED
128	237421.7177	168782.8672	TO BE ESTABLISHED
129	237422.2114	168783.2251	TO BE ESTABLISHED
130	237422.3555	168784.0647	TO BE ESTABLISHED
131	237417.2995	168791.3988	TO BE ESTABLISHED
132	237416.2001	168791.1736	TO BE ESTABLISHED
133	237416.0322	168790.3432	TO BE ESTABLISHED
134	237416.1278	168789.8764	TO BE ESTABLISHED
135	237417.1585	168793.7514	TO BE ESTABLISHED
136	237423.3266	168784.8042	TO BE ESTABLISHED
137	237424.1863	168784.6566	TO BE ESTABLISHED
138	237425.7450	168785.7864	TO BE ESTABLISHED
139	237425.9892	168786.1840	TO BE ESTABLISHED
140	237426.2725	168787.9602	TO BE ESTABLISHED
141	237426.1641	168788.4140	TO BE ESTABLISHED
142	237420.5344	168796.1806	TO BE ESTABLISHED
143	237419.6830	168796.3164	TO BE ESTABLISHED
144	237417.3026	168794.5910	TO BE ESTABLISHED
145	237447.0111	168716.6905	TO BE ESTABLISHED
146	237446.9020	168717.8344	TO BE ESTABLISHED
147	237446.7142	168721.7818	TO BE ESTABLISHED
148	237446.2808	168722.0635	TO BE ESTABLISHED

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C1	5.35	3.05	100°35'37"
C2	5.59	3.81	83°54'55"
C3	2.89	3.71	44°30'34"
C4	2.33	3.71	35°56'00"
C5	3.03	4.04	43°02'11"
C6	3.27	1.83	102°24'47"
C7	3.82	3.66	59°51'18"

LEGEND

000°	TIE DOWN POINT
R=0.60	CURVE RADIUS
L=0.97	CURVE LENGTH

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

GEOMETRIC
LAYOUT PLAN
TIE DOWN TABLES
CURVE DATA TABLE

SCALE:	BIDDEN DATE:
1:100	DEC/23
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
C-116	18 of 68



EXISTING CONDITIONS SITE PLAN

SCALE: 1/32"=1'-0"

0' 10' 20' 30' 40' 50' 60' 70' 80' 90'

LEGEND

- BOLLARD
- CYCLONE FENCE
- ORNAMENTAL FENCE
- GALVANIZED TENSIONIER
- ORNAMENTAL POLE
- EXISTING POLE
- EXISTING CONCRETE POLE
- LUMINARY CONCRETE POLE
- LUMINARY METAL POLE
- SIGN
- EXISTING TREE
- MAN HOLE
- EXISTING PALM
- HYDRANT
- EXISTING BUILDING
- STATIONS
- MAJOR CONTOUR (1.0 M)
- MINOR CONTOUR (0.5 M)

TGM

APPROVED BY

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Lic. No. 15,863

CONSULTANTS

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PR-CRP-001035

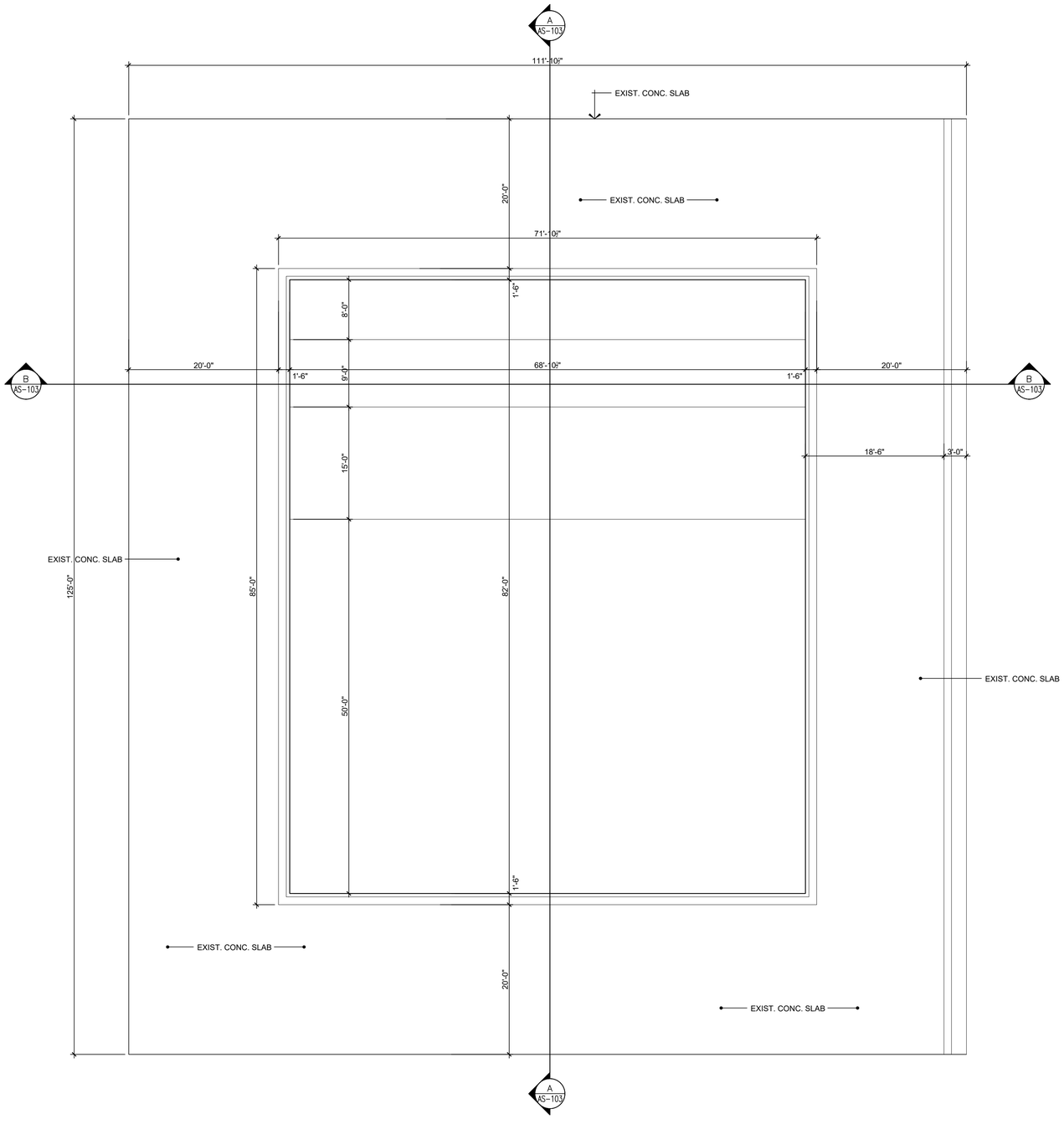
BOULEVARD LUIS MUÑOZ MARÍN

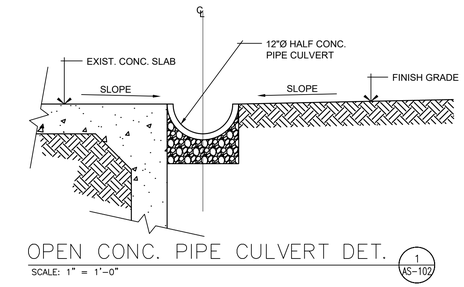
Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

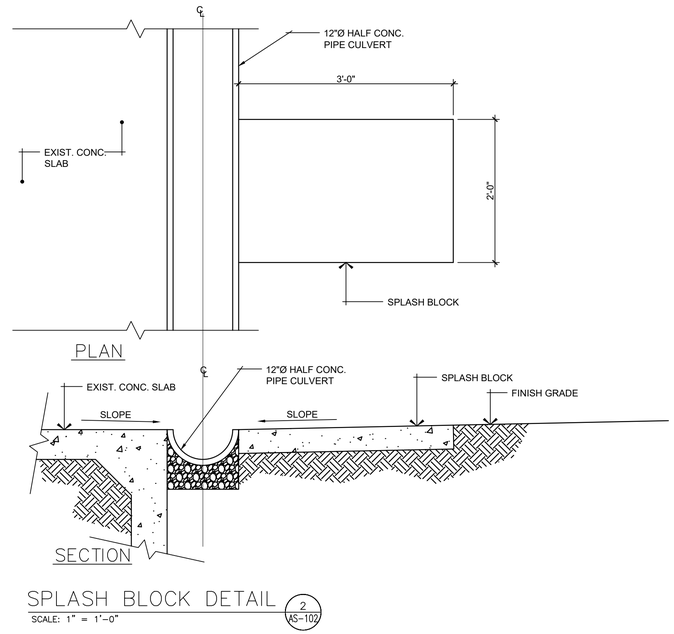
EXISITNG CONDITIONS SITE PLAN

SCALE:	BIDDEN DATE:
1/32"=1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
AS-101	19 of 68





OPEN CONC. PIPE CULVERT DET.
SCALE: 1" = 1'-0"
1
AS-102



SPLASH BLOCK DETAIL
SCALE: 1" = 1'-0"
2
AS-102

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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PR-CRP-001035

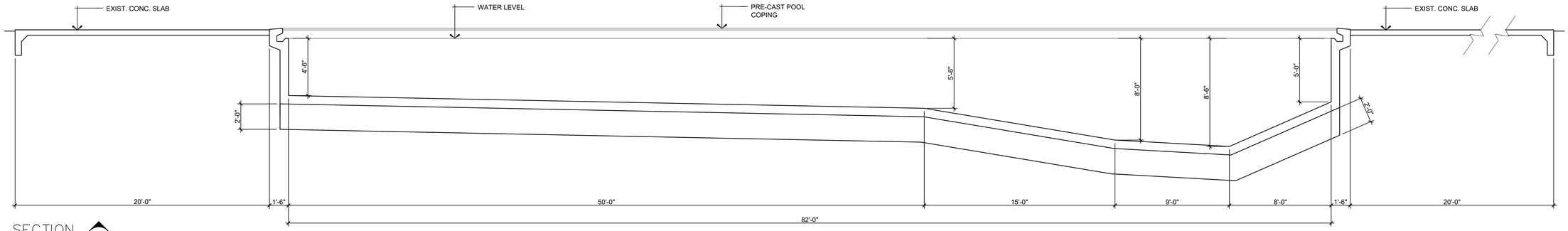
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

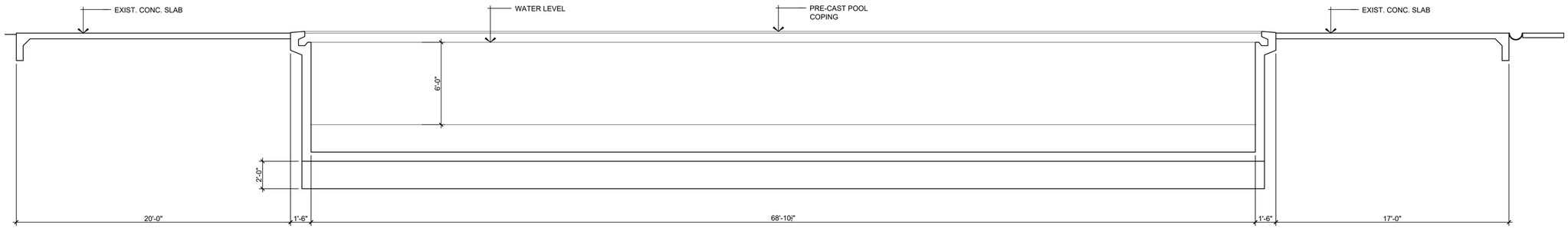
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EXISITNG CONDITIONS DETAILS

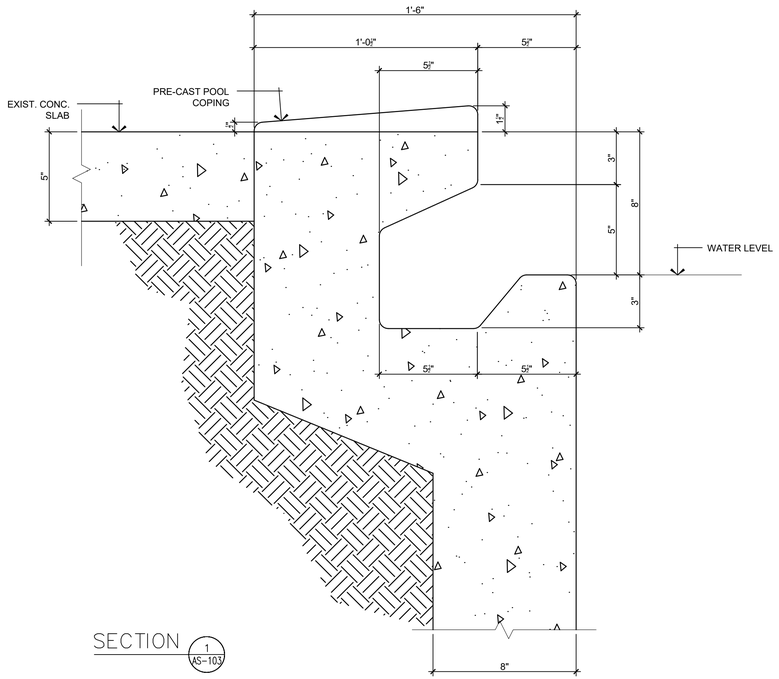
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **AS-102**	SHEET NO. 20 of 68



SECTION A AS-103



SECTION B AS-103



SECTION 1 AS-103

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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Working Drawings For:

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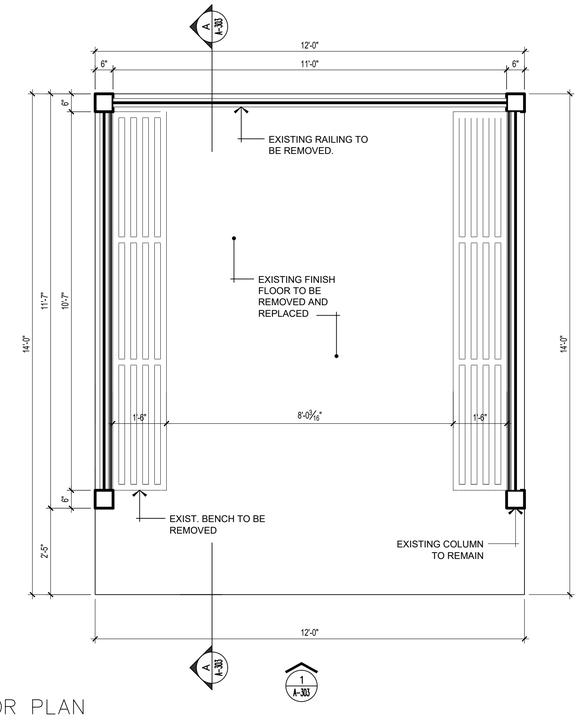
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

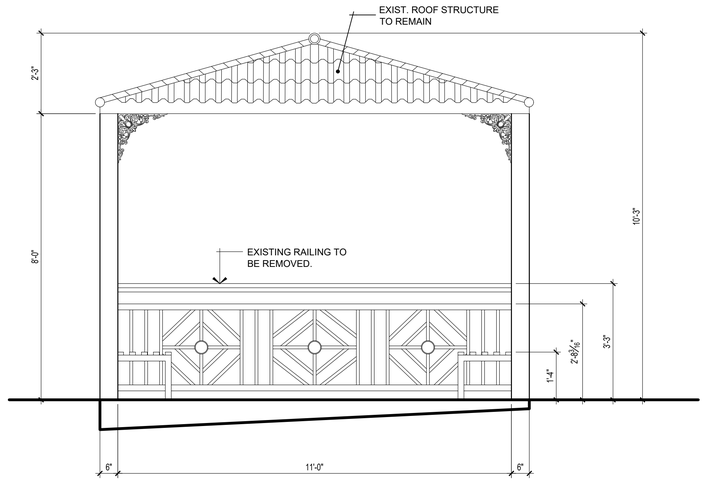
DRAWING NAME

EXISITNG CONDITIONS DETAILS

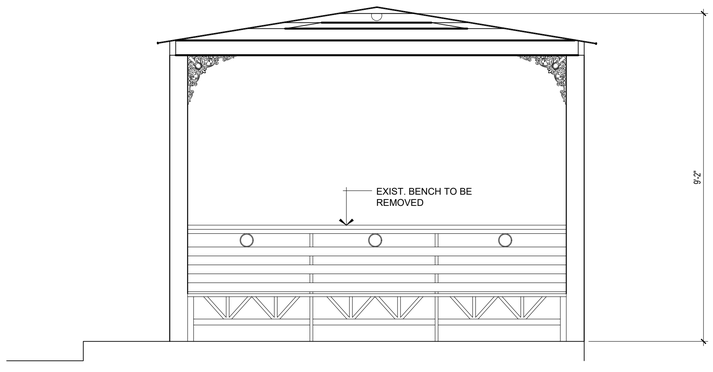
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **AS-103**	SHEET NO. 21 of 68



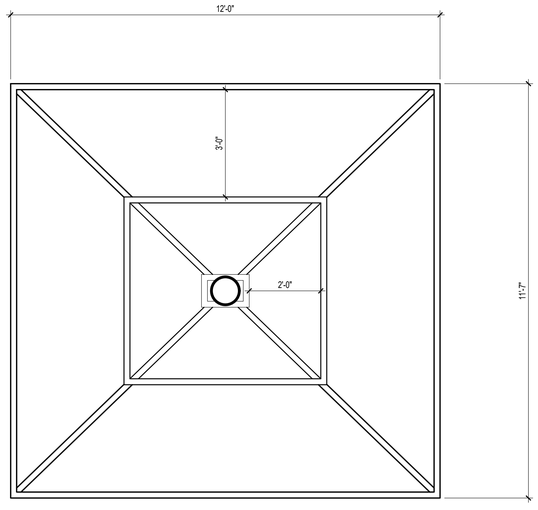
FLOOR PLAN



ELEVATION 1



SECTION A



TOP VIEW

E1
A-280
ENLARGED PLAN GAZEBOS

SCALE: ½"=1'-0"

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

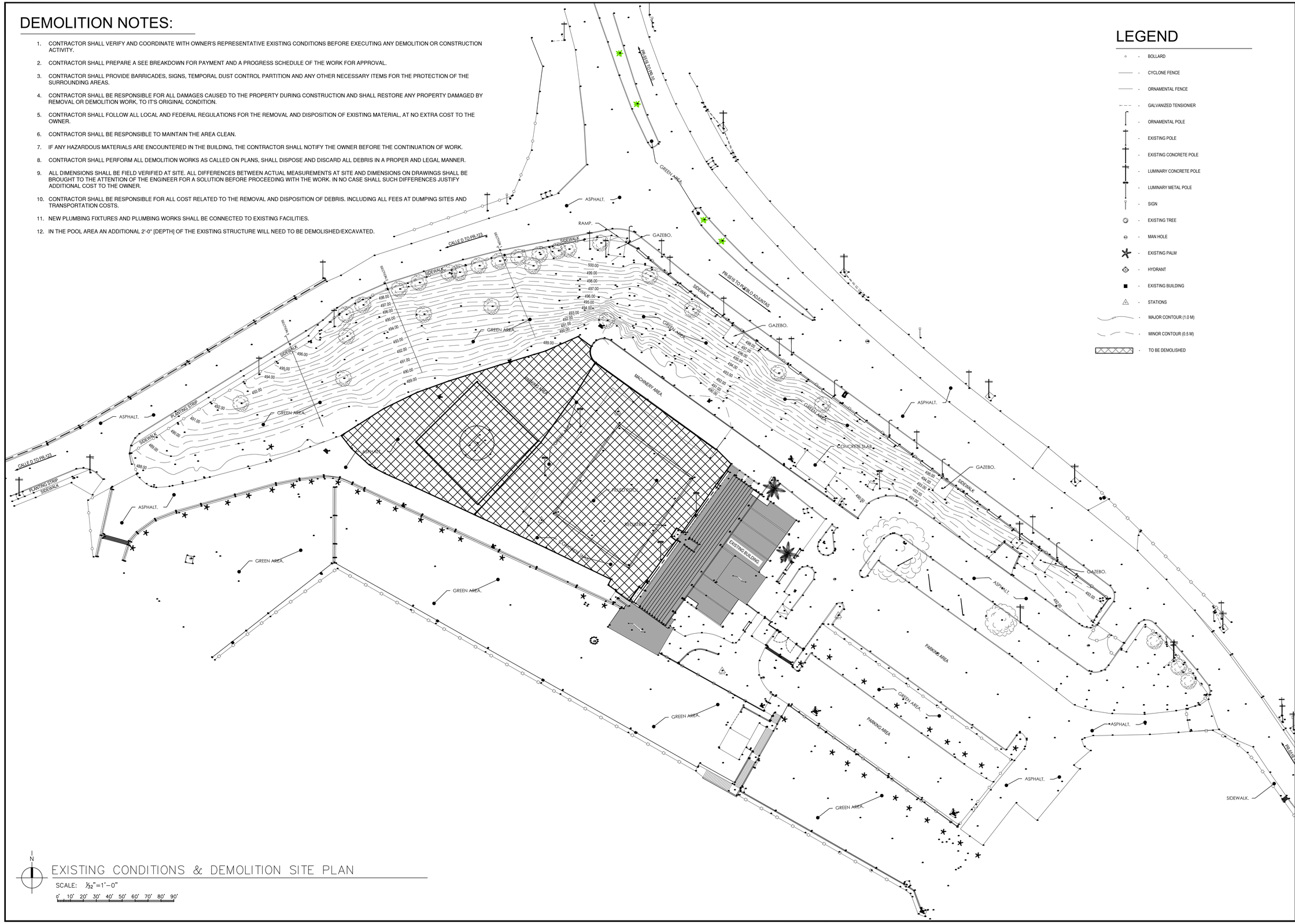
DRAWING NAME

EXISITNG CONDITIONS DETAILS GAZEBOS

SCALE:	BIDDEN DATE:
1/32"=1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
AS-104	22 of 68

DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER'S REPRESENTATIVE EXISTING CONDITIONS BEFORE EXECUTING ANY DEMOLITION OR CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL PREPARE A SEE BREAKDOWN FOR PAYMENT AND A PROGRESS SCHEDULE OF THE WORK FOR APPROVAL.
3. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, TEMPORAL DUST CONTROL PARTITION AND ANY OTHER NECESSARY ITEMS FOR THE PROTECTION OF THE SURROUNDING AREAS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED TO THE PROPERTY DURING CONSTRUCTION AND SHALL RESTORE ANY PROPERTY DAMAGED BY REMOVAL OR DEMOLITION WORK, TO IT'S ORIGINAL CONDITION.
5. CONTRACTOR SHALL FOLLOW ALL LOCAL AND FEDERAL REGULATIONS FOR THE REMOVAL AND DISPOSITION OF EXISTING MATERIAL, AT NO EXTRA COST TO THE OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE AREA CLEAN.
7. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED IN THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE THE CONTINUATION OF WORK.
8. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORKS AS CALLED ON PLANS, SHALL DISPOSE AND DISCARD ALL DEBRIS IN A PROPER AND LEGAL MANNER.
9. ALL DIMENSIONS SHALL BE FIELD VERIFIED AT SITE. ALL DIFFERENCES BETWEEN ACTUAL MEASUREMENTS AT SITE AND DIMENSIONS ON DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR A SOLUTION BEFORE PROCEEDING WITH THE WORK. IN NO CASE SHALL SUCH DIFFERENCES JUSTIFY ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST RELATED TO THE REMOVAL AND DISPOSITION OF DEBRIS. INCLUDING ALL FEES AT DUMPING SITES AND TRANSPORTATION COSTS.
11. NEW PLUMBING FIXTURES AND PLUMBING WORKS SHALL BE CONNECTED TO EXISTING FACILITIES.
12. IN THE POOL AREA AN ADDITIONAL 2'-0" [DEPTH] OF THE EXISTING STRUCTURE WILL NEED TO BE DEMOLISHED/EXCAVATED.



LEGEND

- BOLLARD
- CYCLONE FENCE
- ORNAMENTAL FENCE
- GALVANIZED TENSIONIER
- ORNAMENTAL POLE
- EXISTING POLE
- EXISTING CONCRETE POLE
- LUMINARY CONCRETE POLE
- LUMINARY METAL POLE
- SIGN
- EXISTING TREE
- MAN HOLE
- EXISTING PALM
- HYDRANT
- EXISTING BUILDING
- STATIONS
- MAJOR CONTOUR (1.0 M)
- MINOR CONTOUR (0.5 M)
- TO BE DEMOLISHED

N

EXISTING CONDITIONS & DEMOLITION SITE PLAN

SCALE: 1/32"=1'-0"

0' 10' 20' 30' 40' 50' 60' 70' 80' 90'

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

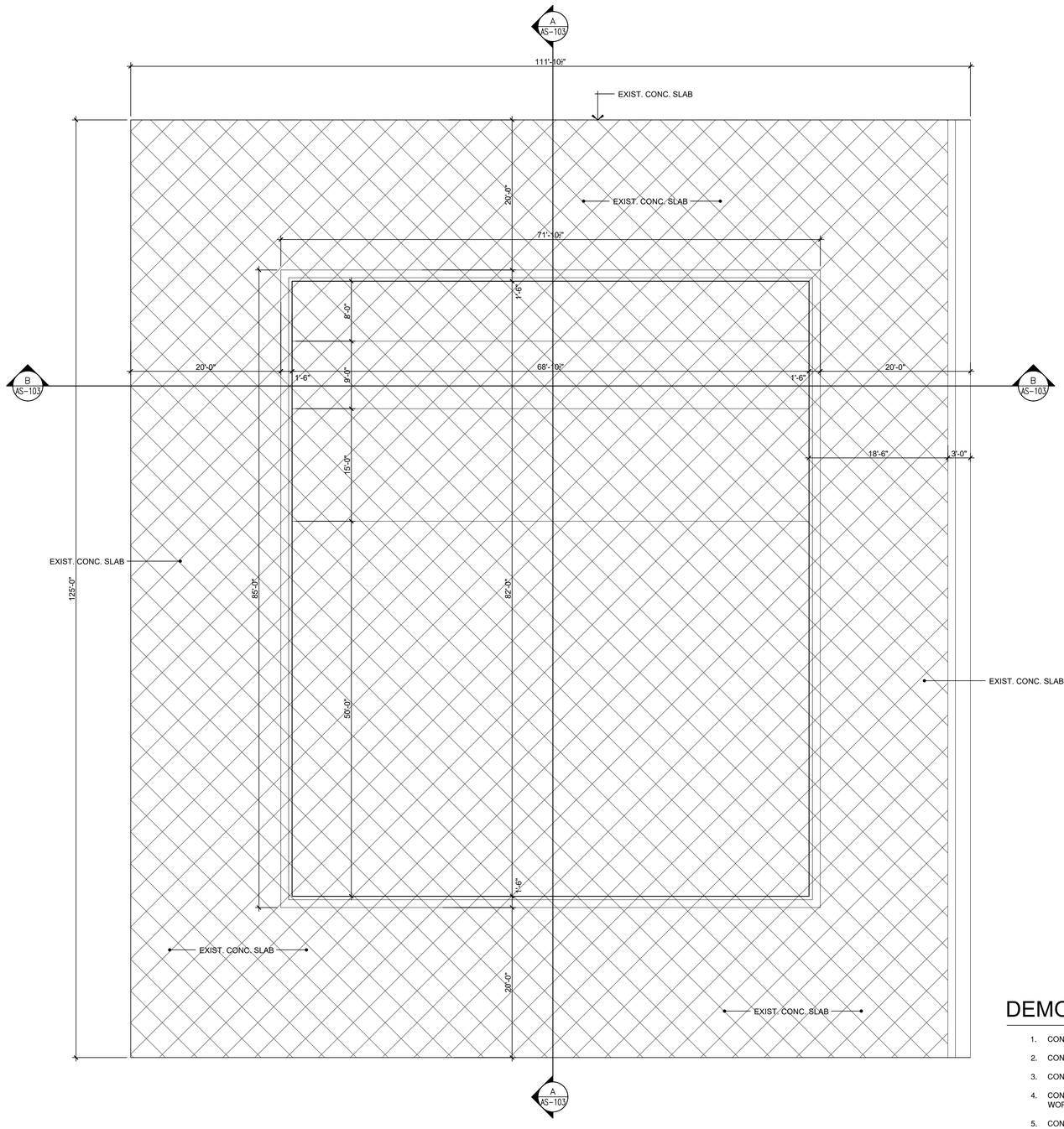
BOULEVARD LUIS MUÑOZ MARÍN

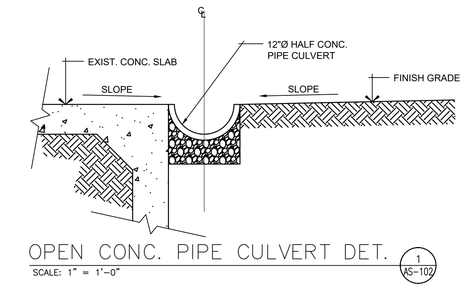
Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

EXISITNG CONDITIONS + DEMOLITION SITE PLAN

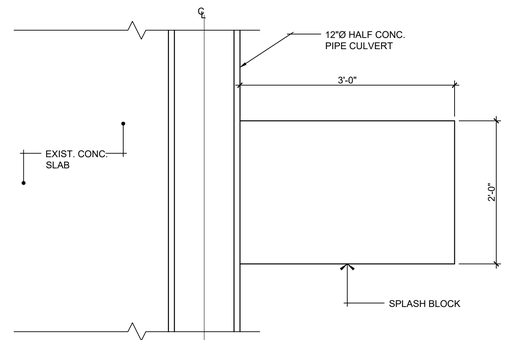
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1/32"=1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
AD-101	23 of 68



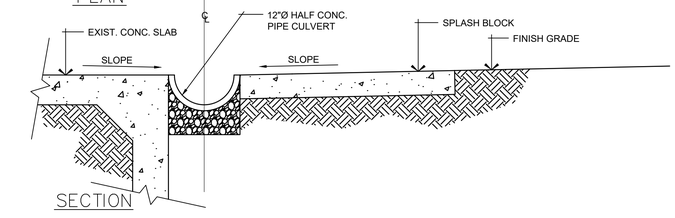


OPEN CONC. PIPE CULVERT DET. 1 AS-102

SCALE: 1" = 1'-0"



PLAN



SECTION

SPLASH BLOCK DETAIL 2 AS-102

SCALE: 1" = 1'-0"

LEGEND

- BOLLARD
- CYCLONE FENCE
- ORNAMENTAL FENCE
- GALVANIZED TENSIONIER
- ORNAMENTAL POLE
- EXISTING POLE
- EXISTING CONCRETE POLE
- LUMINARY CONCRETE POLE
- LUMINARY METAL POLE
- SIGN
- EXISTING TREE
- MAN HOLE
- EXISTING PALM
- HYDRANT
- EXISTING BUILDING
- STATIONS
- MAJOR CONTOUR (1.0 M)
- MINOR CONTOUR (0.5 M)
- TO BE DEMOLISHED

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CONSULTANTS

NOTE

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CERTIFICATION

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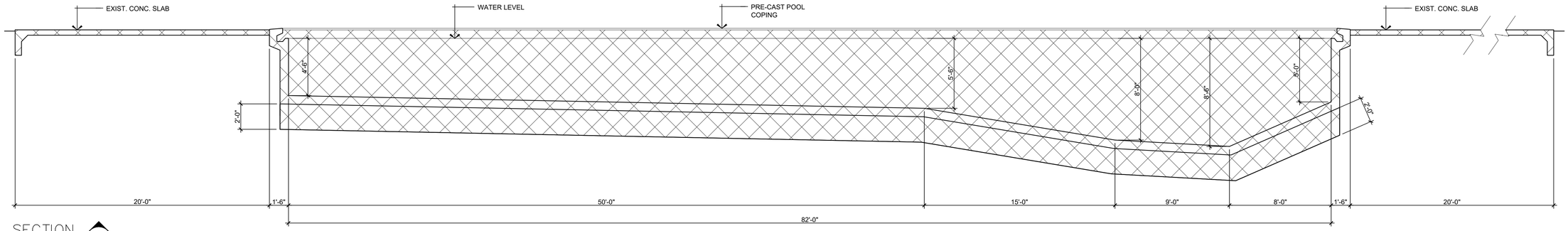
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

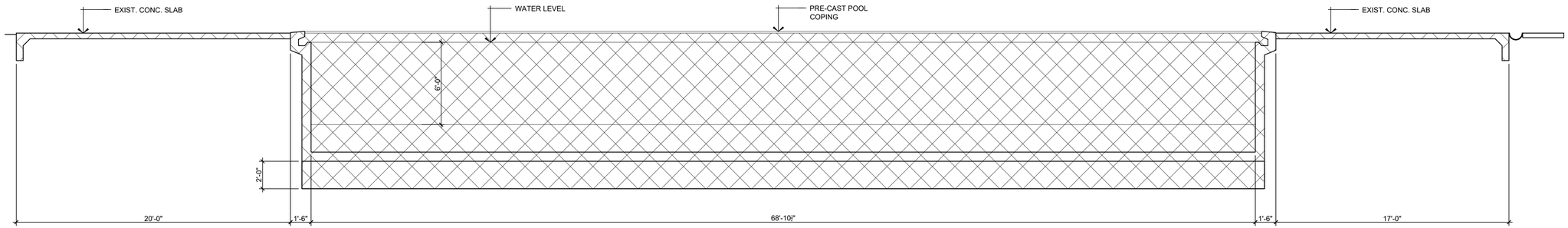
DRAWING NAME

EXISITNG CONDITIONS + DEMOLITION DETAILS

SCALE: 1/32"=1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. AD-102	SHEET NO. 24 of 68



SECTION A AS-103



SECTION B AS-103

LEGEND

- BOLLARD
- CYCLONE FENCE
- ORNAMENTAL FENCE
- GALVANIZED TENSIONIER
- ORNAMENTAL POLE
- EXISTING POLE
- EXISTING CONCRETE POLE
- LUMINARY CONCRETE POLE
- LUMINARY METAL POLE
- SIGN
- EXISTING TREE
- MAN HOLE
- EXISTING PALM
- HYDRANT
- EXISTING BUILDING
- STATIONS
- MAJOR CONTOUR (1.0 M)
- MINOR CONTOUR (0.5 M)
- TO BE DEMOLISHED

DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY AND COORDINATE WITH OWNER'S REPRESENTATIVE EXISTING CONDITIONS BEFORE EXECUTING ANY DEMOLITION OR CONSTRUCTION ACTIVITY.
2. CONTRACTOR SHALL PREPARE A SEE BREAKDOWN FOR PAYMENT AND A PROGRESS SCHEDULE OF THE WORK FOR APPROVAL.
3. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, TEMPORAL DUST CONTROL PARTITION AND ANY OTHER NECESSARY ITEMS FOR THE PROTECTION OF THE SURROUNDING AREAS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED TO THE PROPERTY DURING CONSTRUCTION AND SHALL RESTORE ANY PROPERTY DAMAGED BY REMOVAL OR DEMOLITION WORK, TO IT'S ORIGINAL CONDITION.
5. CONTRACTOR SHALL FOLLOW ALL LOCAL AND FEDERAL REGULATIONS FOR THE REMOVAL AND DISPOSITION OF EXISTING MATERIAL, AT NO EXTRA COST TO THE OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE AREA CLEAN.
7. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED IN THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE OWNER BEFORE THE CONTINUATION OF WORK.
8. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORKS AS CALLED ON PLANS, SHALL DISPOSE AND DISCARD ALL DEBRIS IN A PROPER AND LEGAL MANNER.
9. ALL DIMENSIONS SHALL BE FIELD VERIFIED AT SITE. ALL DIFFERENCES BETWEEN ACTUAL MEASUREMENTS AT SITE AND DIMENSIONS ON DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR A SOLUTION BEFORE PROCEEDING WITH THE WORK. IN NO CASE SHALL SUCH DIFFERENCES JUSTIFY ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST RELATED TO THE REMOVAL AND DISPOSITION OF DEBRIS. INCLUDING ALL FEES AT DUMPING SITES AND TRANSPORTATION COSTS.
11. NEW PLUMBING FIXTURES AND PLUMBING WORKS SHALL BE CONNECTED TO EXISTING FACILITIES.
12. IN THE POOL AREA AN ADDITIONAL 2'-0" [DEPTH] OF THE EXISTING STRUCTURE WILL NEED TO BE DEMOLISHED/EXCAVATED.

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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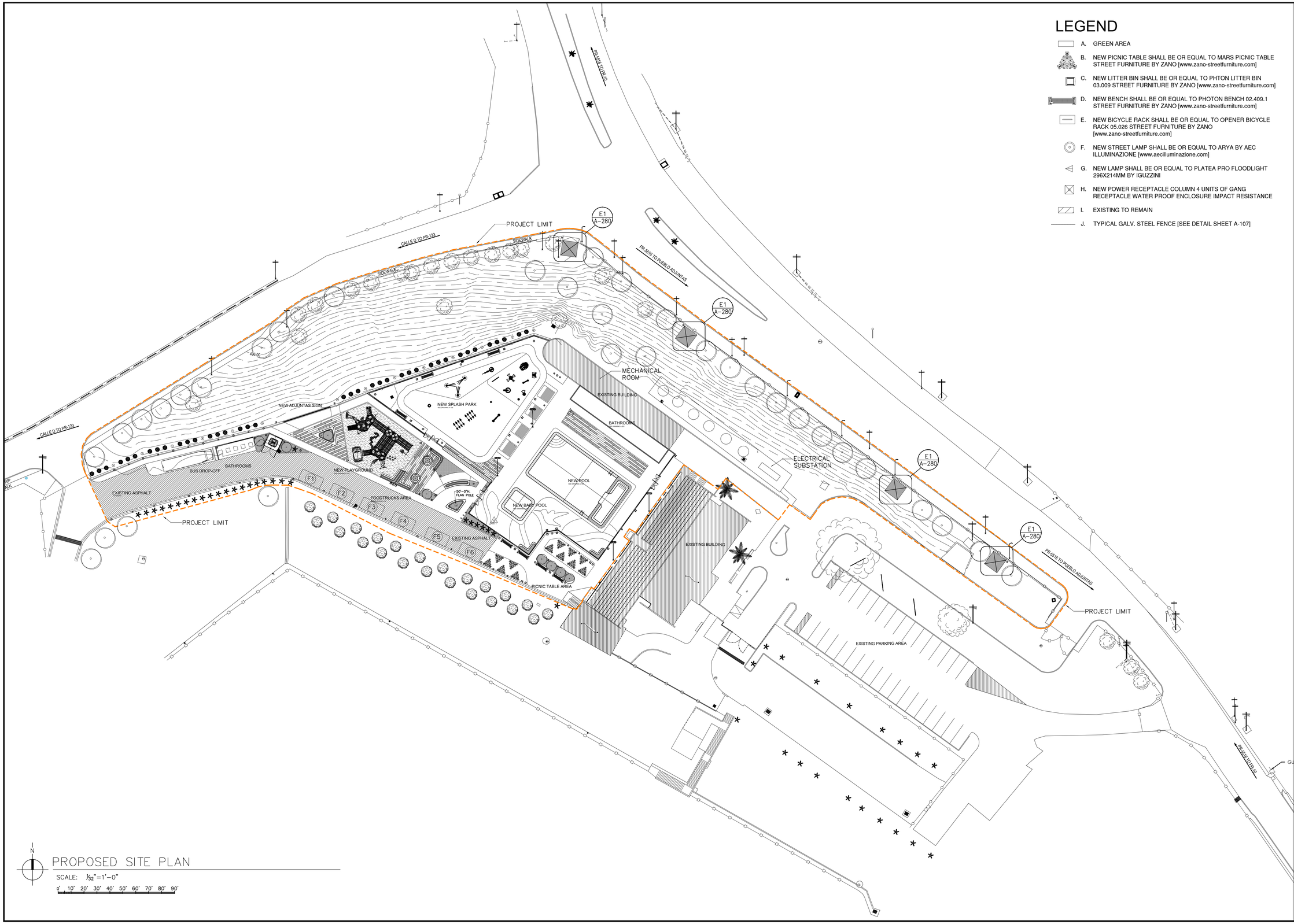
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

EXISITNG CONDITIONS + DEMOLITION DETAILS

SCALE:	BIDDEN DATE:
1/32"=1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
AD-103	25 of 68



LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
- G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI
- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

N

PROPOSED SITE PLAN

SCALE: 1/32"=1'-0"

0' 10' 20' 30' 40' 50' 60' 70' 80' 90'

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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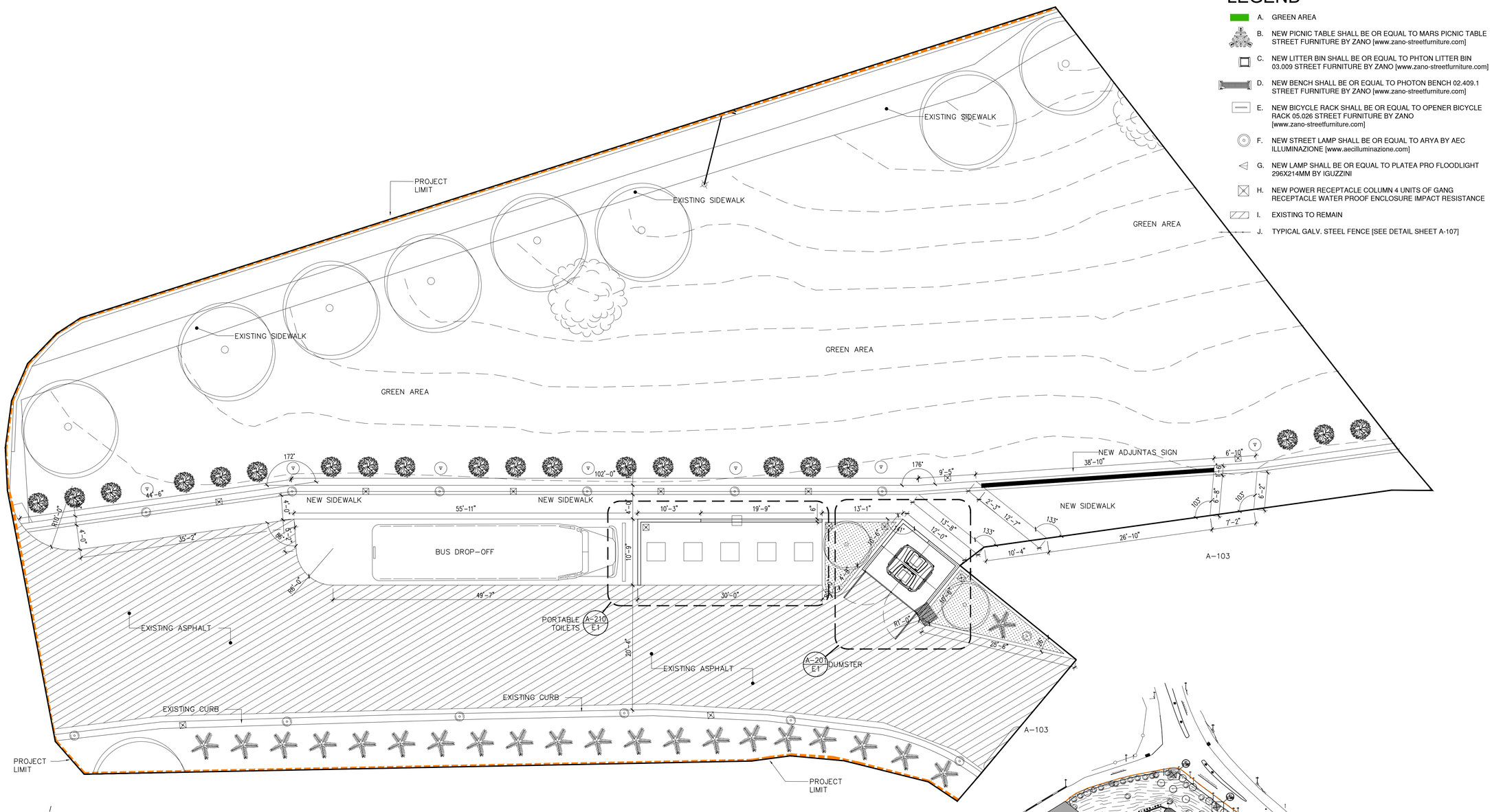
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSAL SITE PLAN

SCALE:	BIDDEN DATE:
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DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
A-101	26 of 68



LEGEND

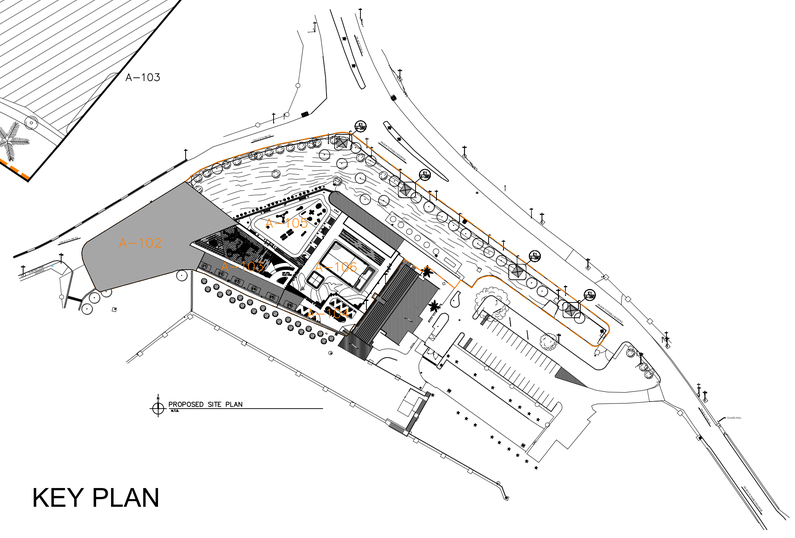
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- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

N

PROPOSED KEY PLAN 1

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

0' 5' 10' 20' 30' 40'



KEY PLAN

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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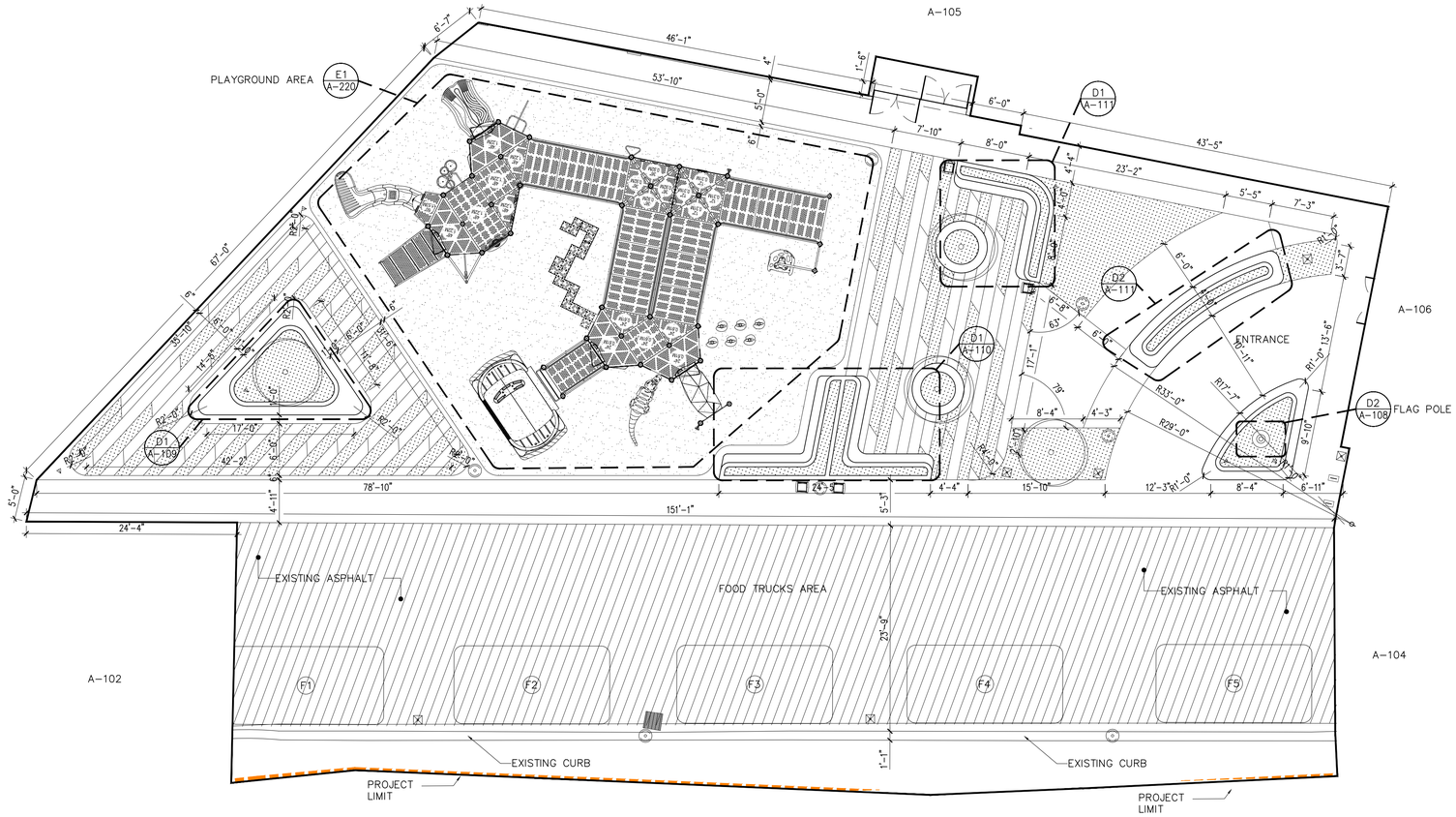
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED KEY PLAN 1

SCALE: 1/32"=1'-0"	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-102**	SHEET NO. 27 of 68





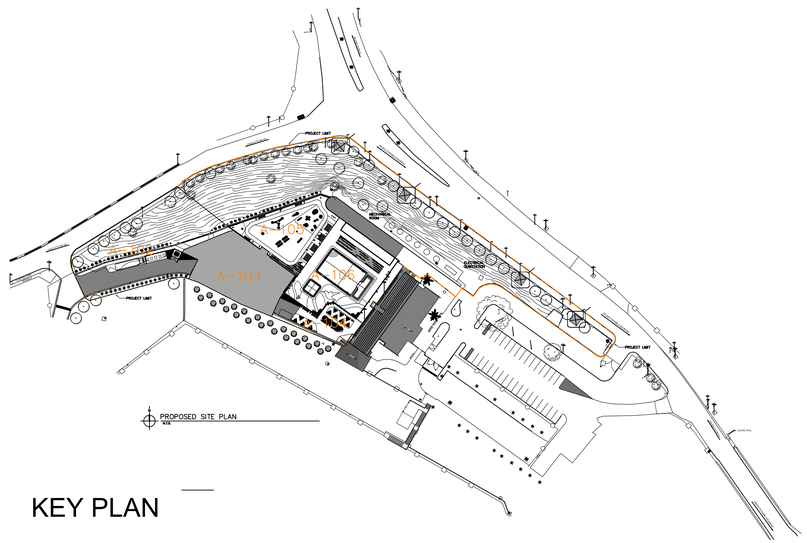
PROPOSED KEY PLAN 2

SCALE: ⅛"=1'–0"

0' 5' 10' 20' 30' 40'

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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KEY PLAN

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APPROVED BY

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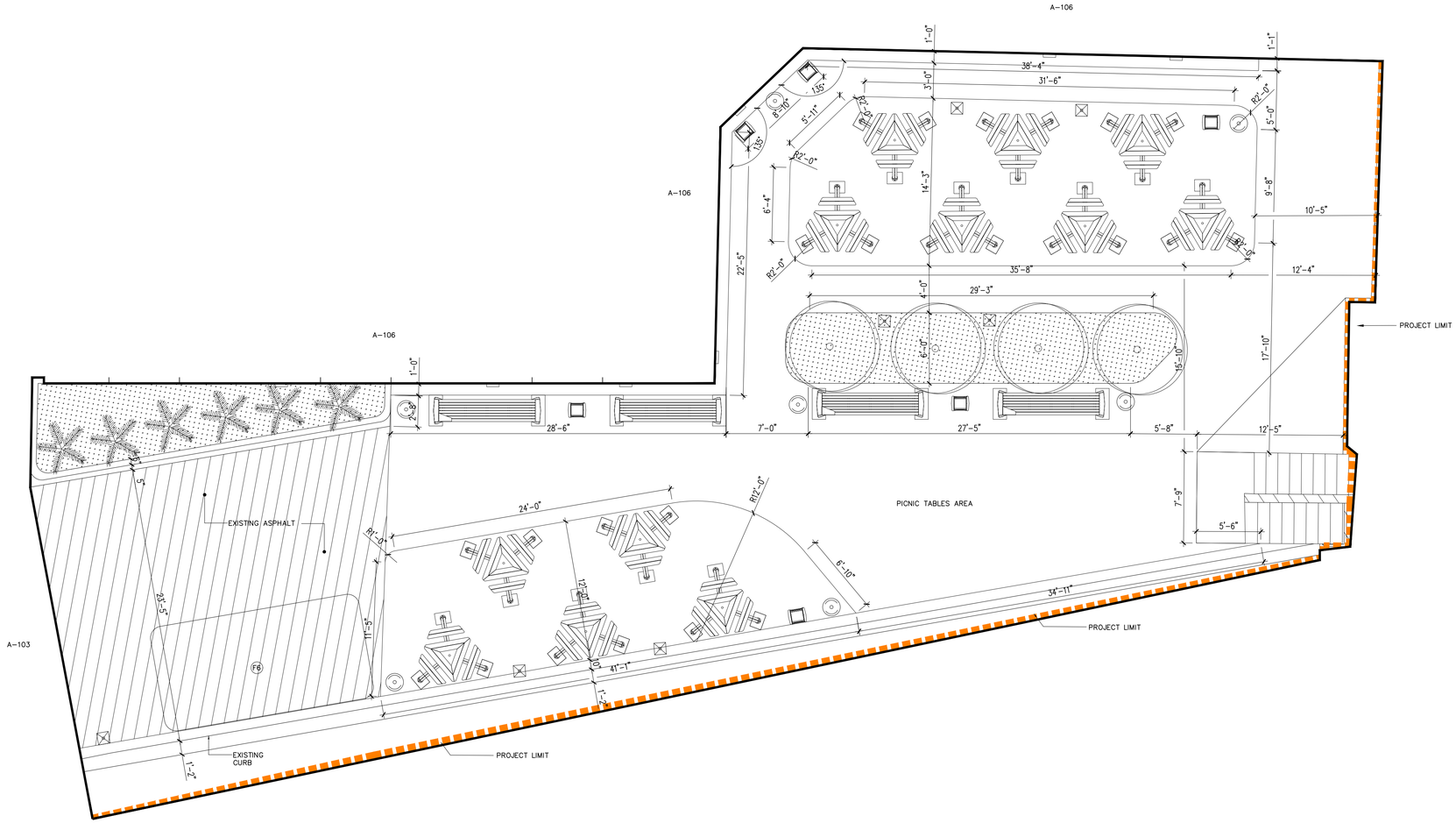
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED KEY PLAN 2

SCALE:	BIDDEN DATE:
1/8"=1'-0"	DEC. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
A-103	28 of 68



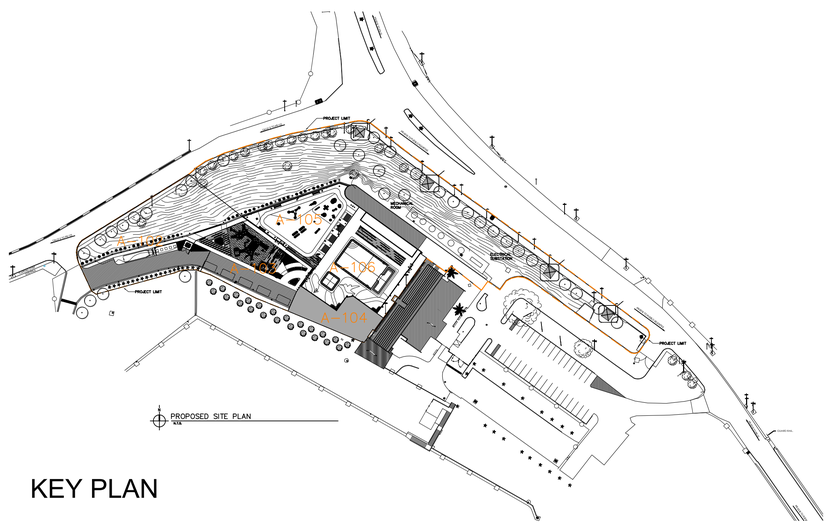
PROPOSED KEY PLAN 3

SCALE: ¼"=1'–0"

0' 10' 20'

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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KEY PLAN

TGM

APPROVED BY

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Lic. No. 15,863

CONSULTANTS

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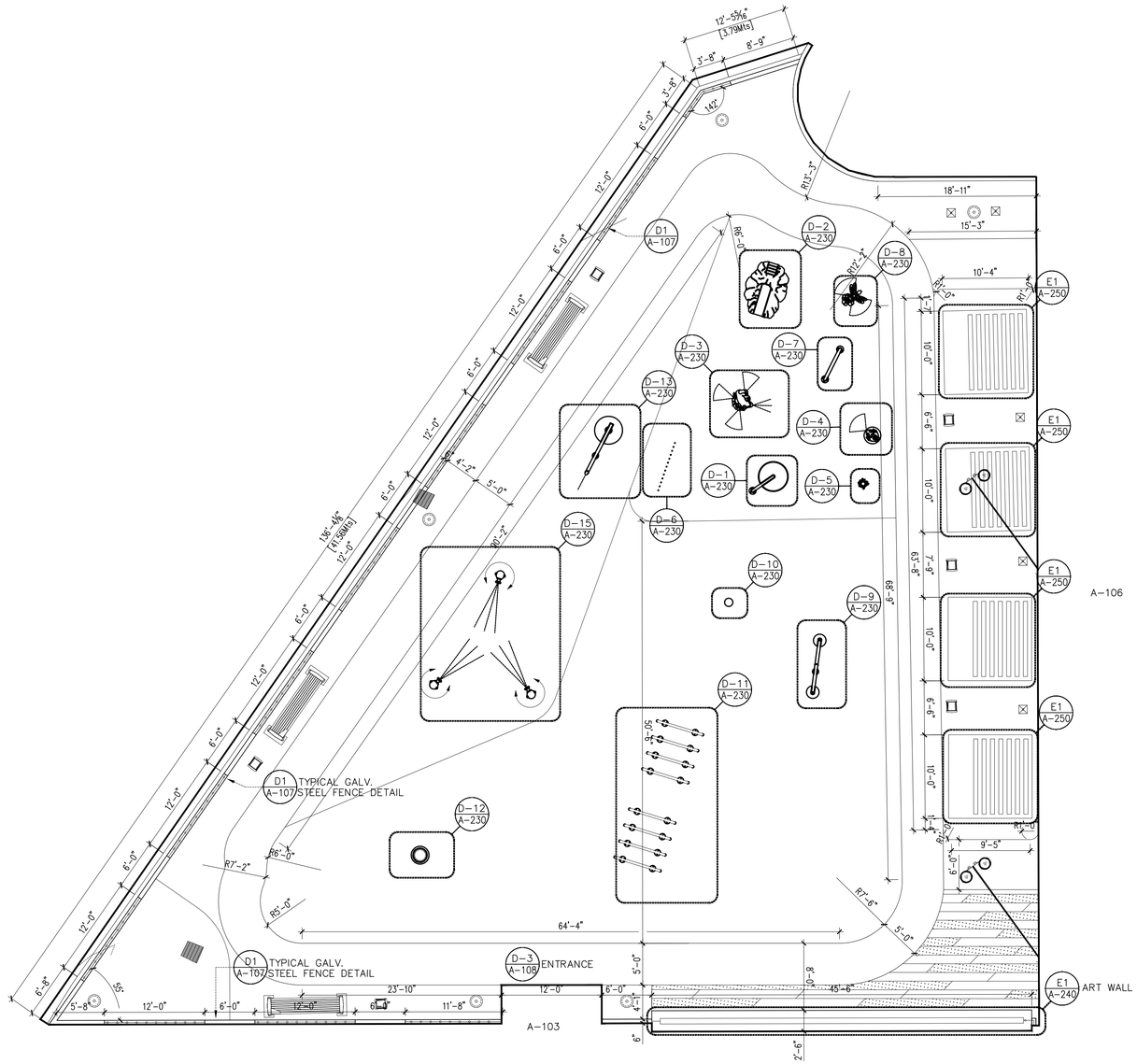
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED KEY PLAN 3

SCALE:	BIDDEN DATE:
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A-104	29 of 68



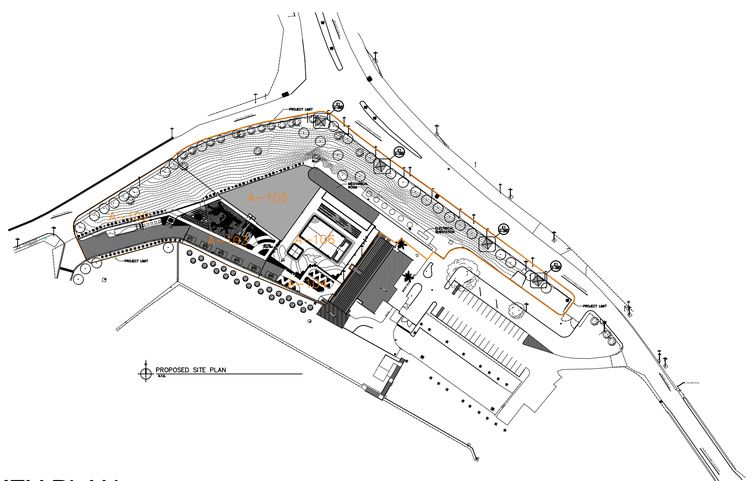
PROPOSED KEY PLAN 4

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

0' 5' 10' 20' 30' 40'

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]



KEY PLAN

TCM

APPROVED BY

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Lic. No. 15,863

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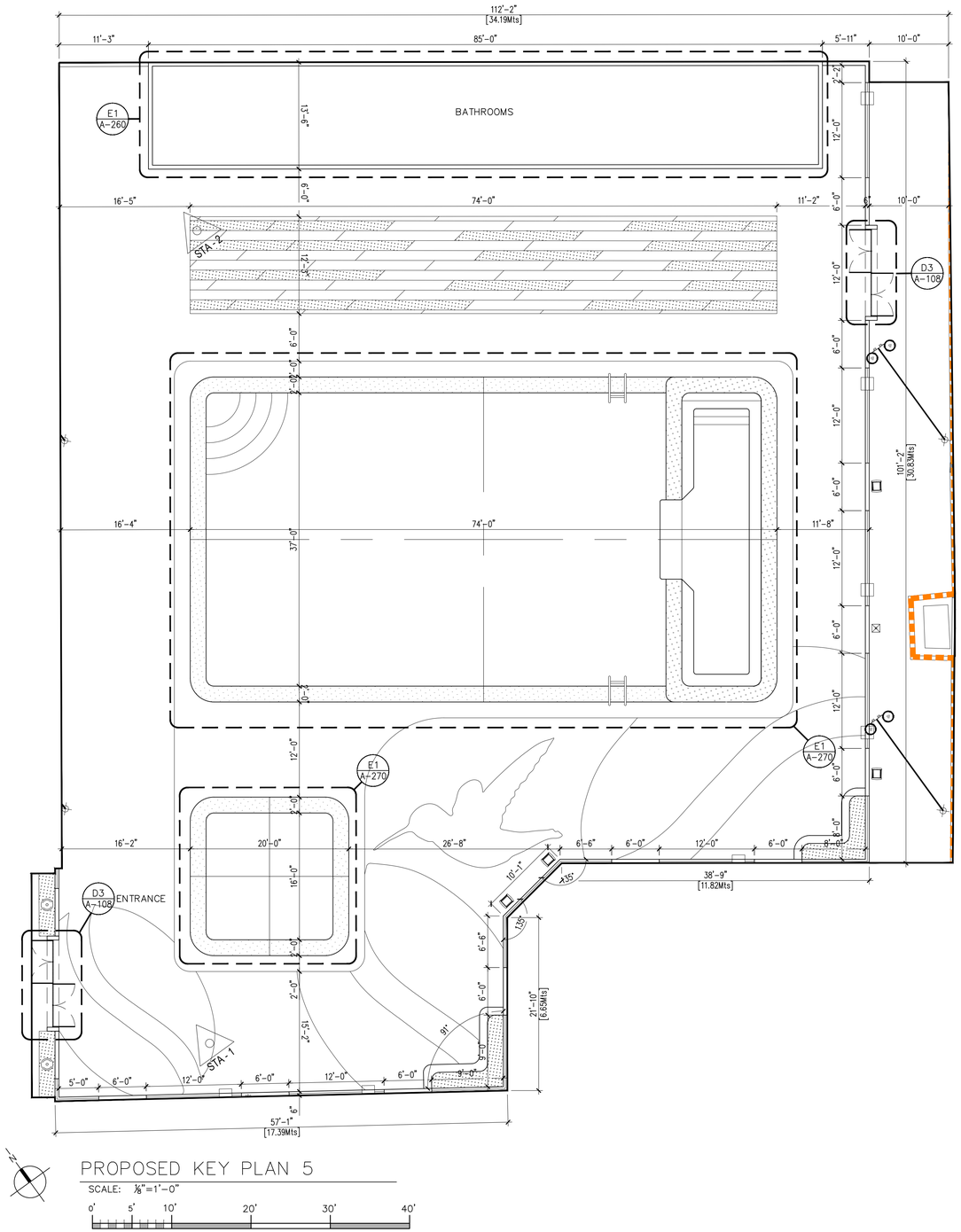
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED KEY PLAN 4

SCALE: 1/32"=1'-0"	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-105**	SHEET NO. 30 of 68



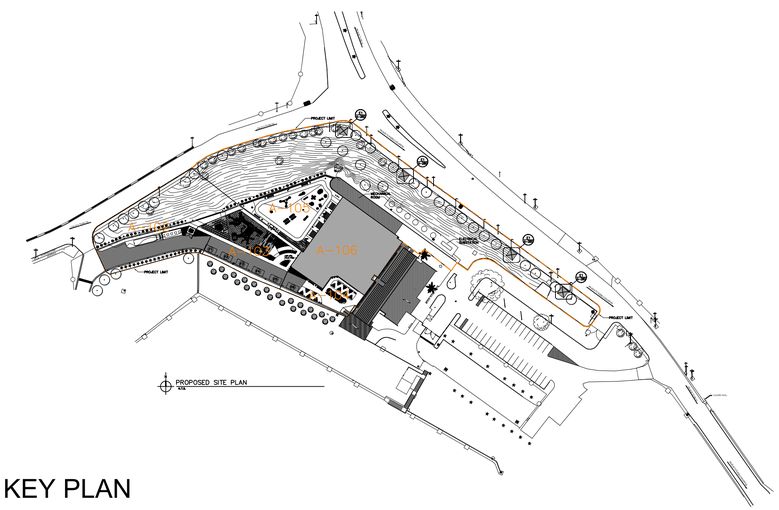
PROPOSED KEY PLAN 5

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

0' 5' 10' 20' 30' 40'

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- D. NEW BENCH SHALL BE OR EQUAL TO PHOTON BENCH 02.409.1 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- E. NEW BICYCLE RACK SHALL BE OR EQUAL TO OPENER BICYCLE RACK 05.026 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
- G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI
- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]



KEY PLAN

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

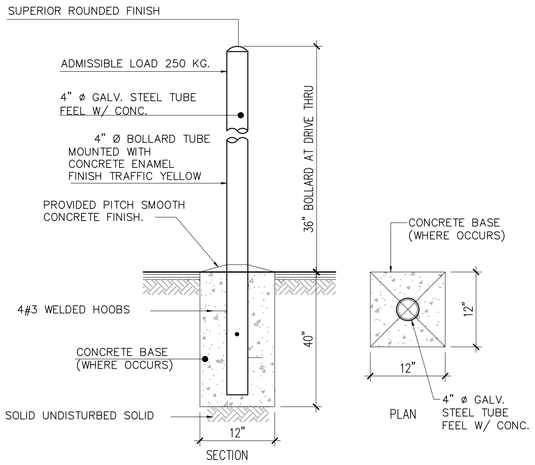
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

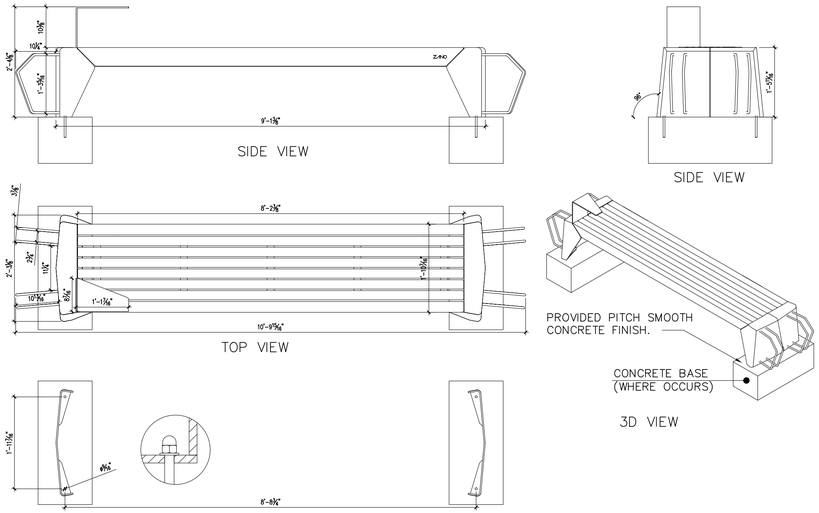
DRAWING NAME

PROPOSED KEY PLAN 5

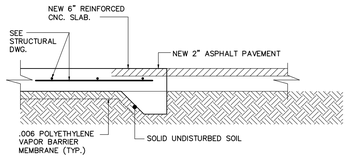
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-106**	SHEET NO. 31 of 68



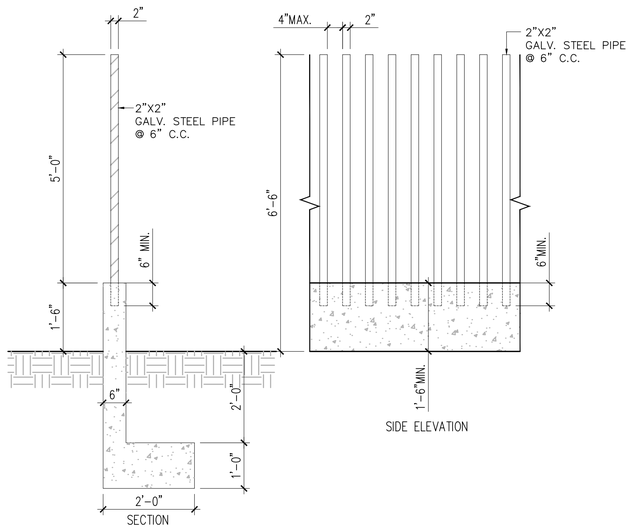
D3 A107 TYPICAL BOLLARD DETAIL
NOT TO SCALE



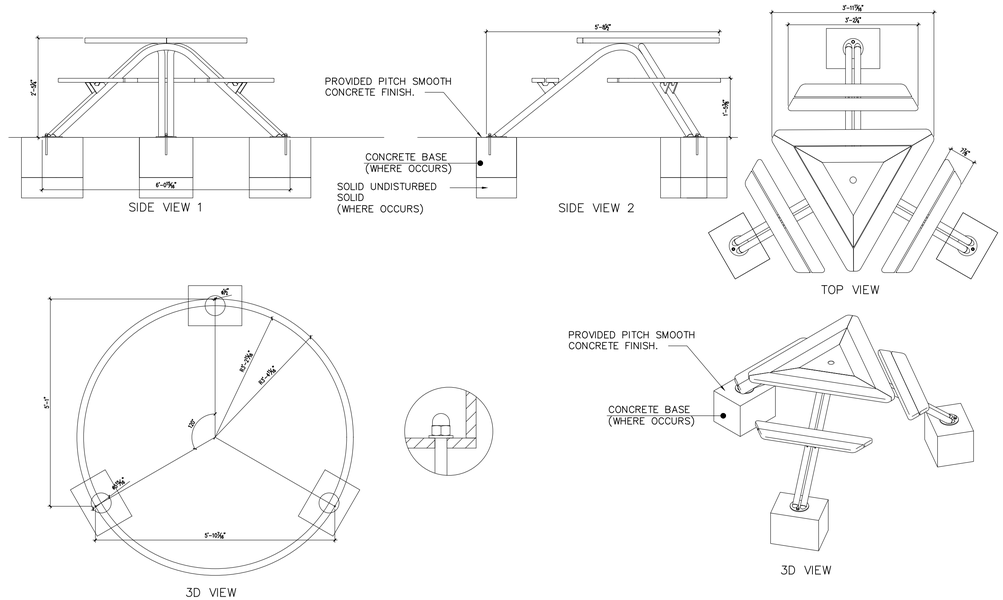
D4 A107 TYPICAL BENCH DETAIL
NOT TO SCALE



D2 A107 TYPICAL SIDEWALK DETAIL
NOT TO SCALE



D1 A107 TYPICAL GALV. STEEL FENCE DETAIL
NOT TO SCALE



D6 A107 TYPICAL PICNIC TABLE DETAIL
NOT TO SCALE

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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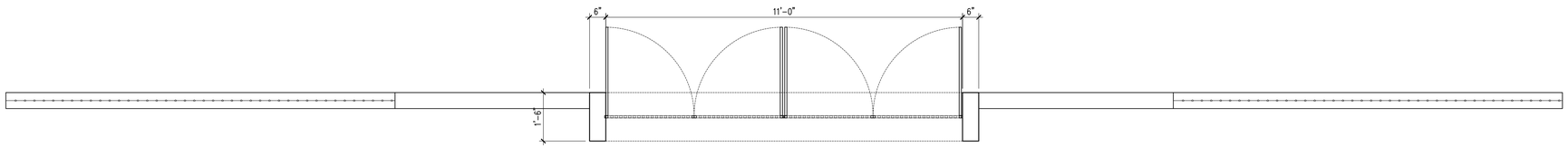
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

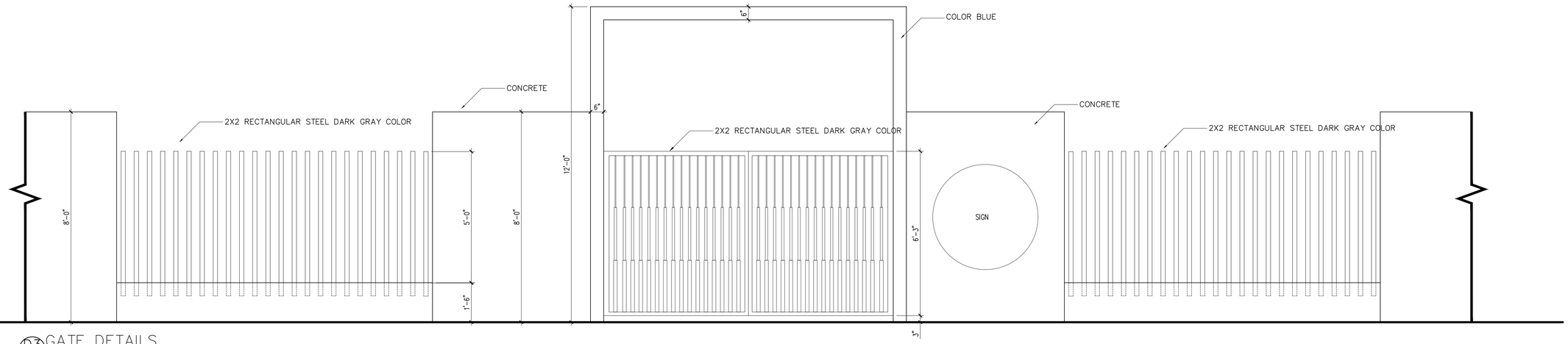
DRAWING NAME

PROPOSED SITE DETAILS

SCALE:	BIDDEN DATE:
NTS	DEC. 2023
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
A-107	32 of 68

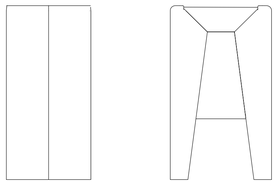


FLOOR PLAN

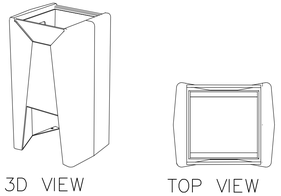


D3 A108 GATE DETAILS
SCALE: 1/2"=1'-0"

ELEVATION



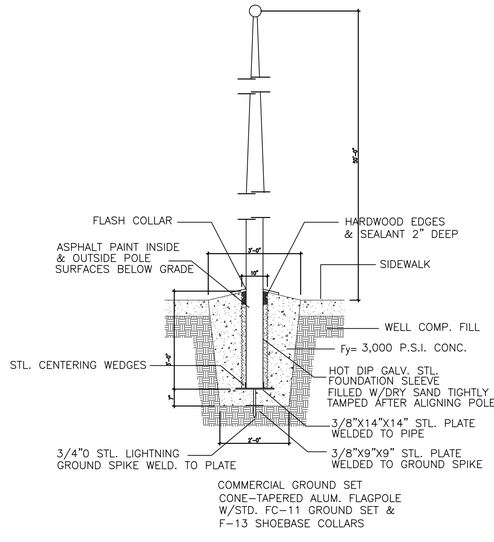
SIDE VIEW



3D VIEW

TOP VIEW

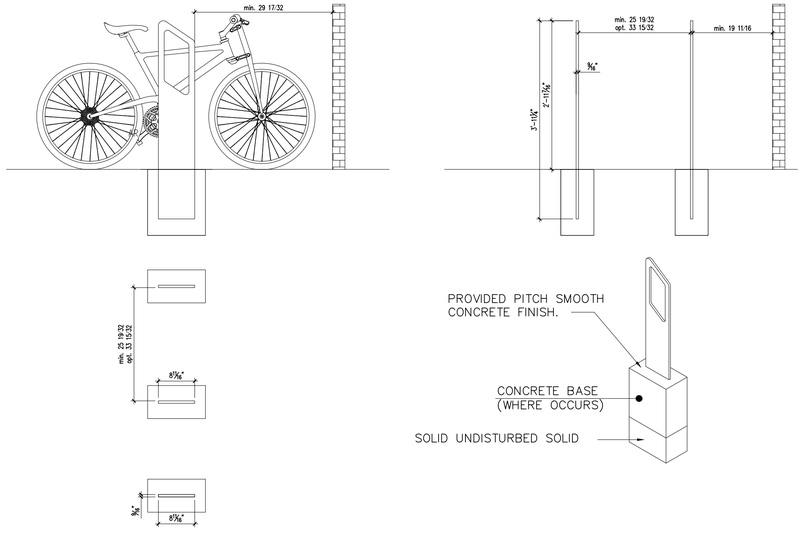
D1 A108 TYPICAL LITTER BIN DETAIL
NOT TO SCALE



D2 A108 FLAG POLE DETAIL
N.T.S.

FLAG POLE NOTES:

1. 50 FT. HEIGHT FLAG PILE TO BE INSTALLED & SUPPLIED.
2. GENERAL CONTRACTOR SHALL COORDINATE SUPPLIES BOLTS PANNIERS.
3. GENERAL CONTRACTOR MUST PROVIDE THE CONC. FOOTING, REINFORCE, ANCHORS AS PER FLAG POLE DETAILS IN THIS DRAWINGS.
4. BY TROPICAL FLAG.



D9 A108 TYPICAL BICYCLE RACK DETAIL
NOT TO SCALE

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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PR-CRP-001035

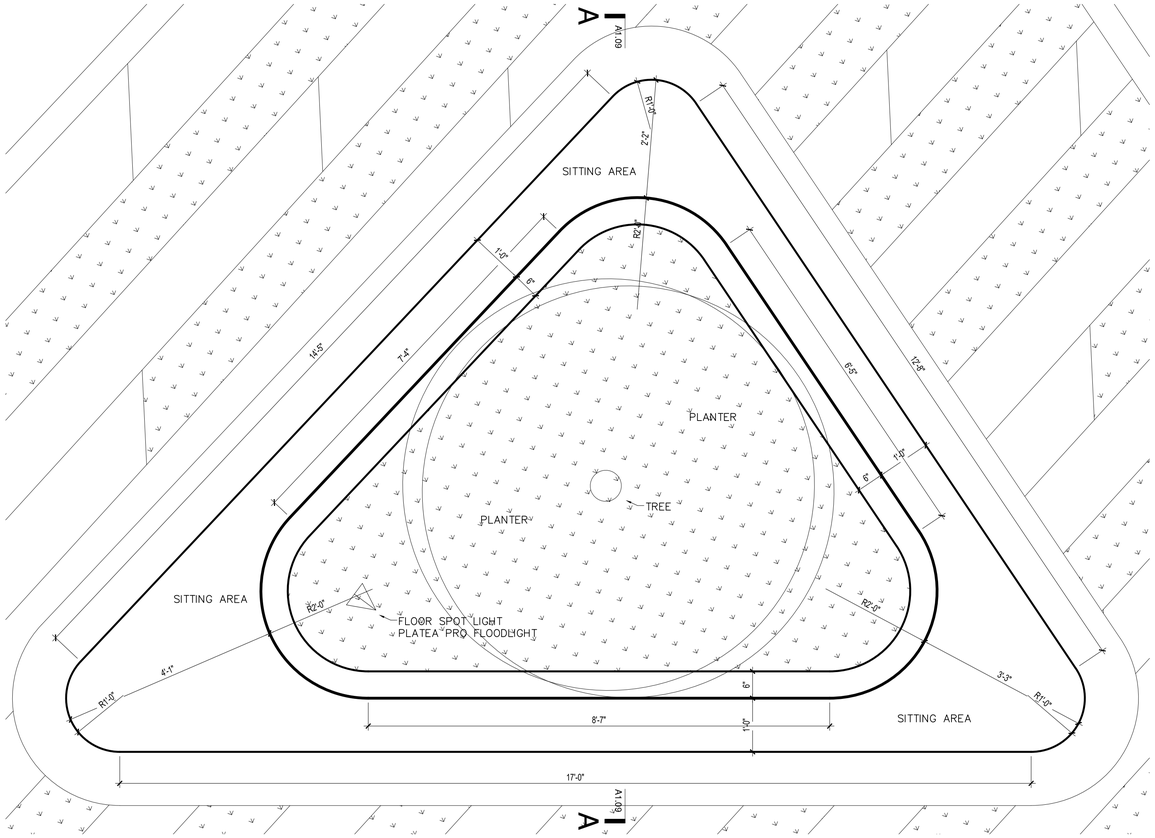
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED SITE DETAILS

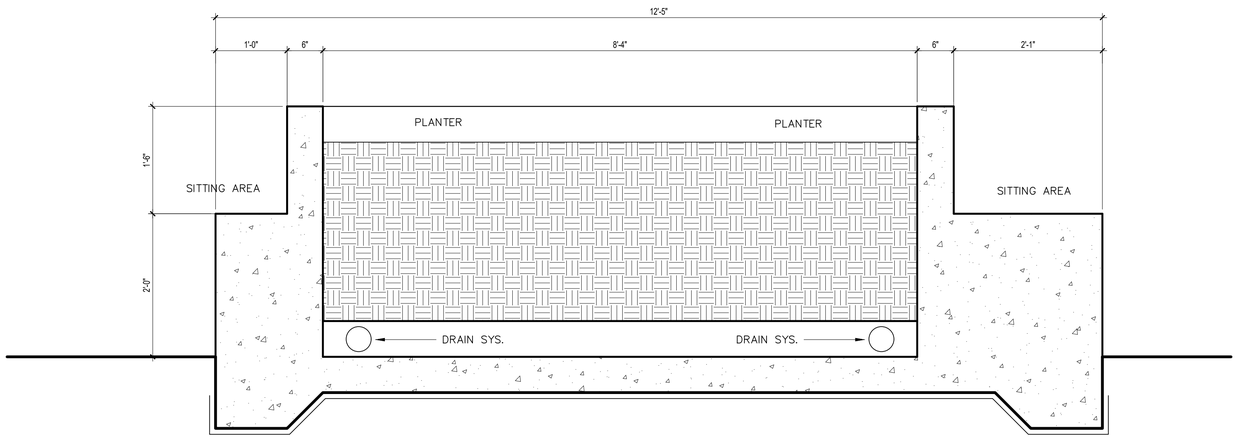
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-108**	SHEET NO. 33 of 68



D1 A-109 CAST-IN PLACE FURNITURE DETAIL

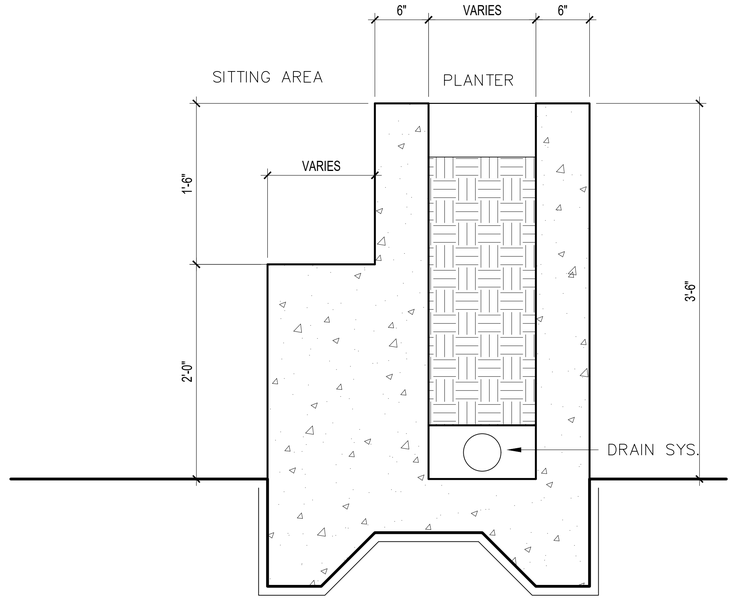
SCALE: ¾"=1'-0"

0' 5' 7'



SECTION A

SCALE: 1 1/2"=1'-0"



SECTION B [TYP. // where occurs]

SCALE: 1 1/2"=1'-0"

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- D. NEW BENCH SHALL BE OR EQUAL TO PHOTON BENCH 02.409.1 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
- G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI
- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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PR-CRP-001035

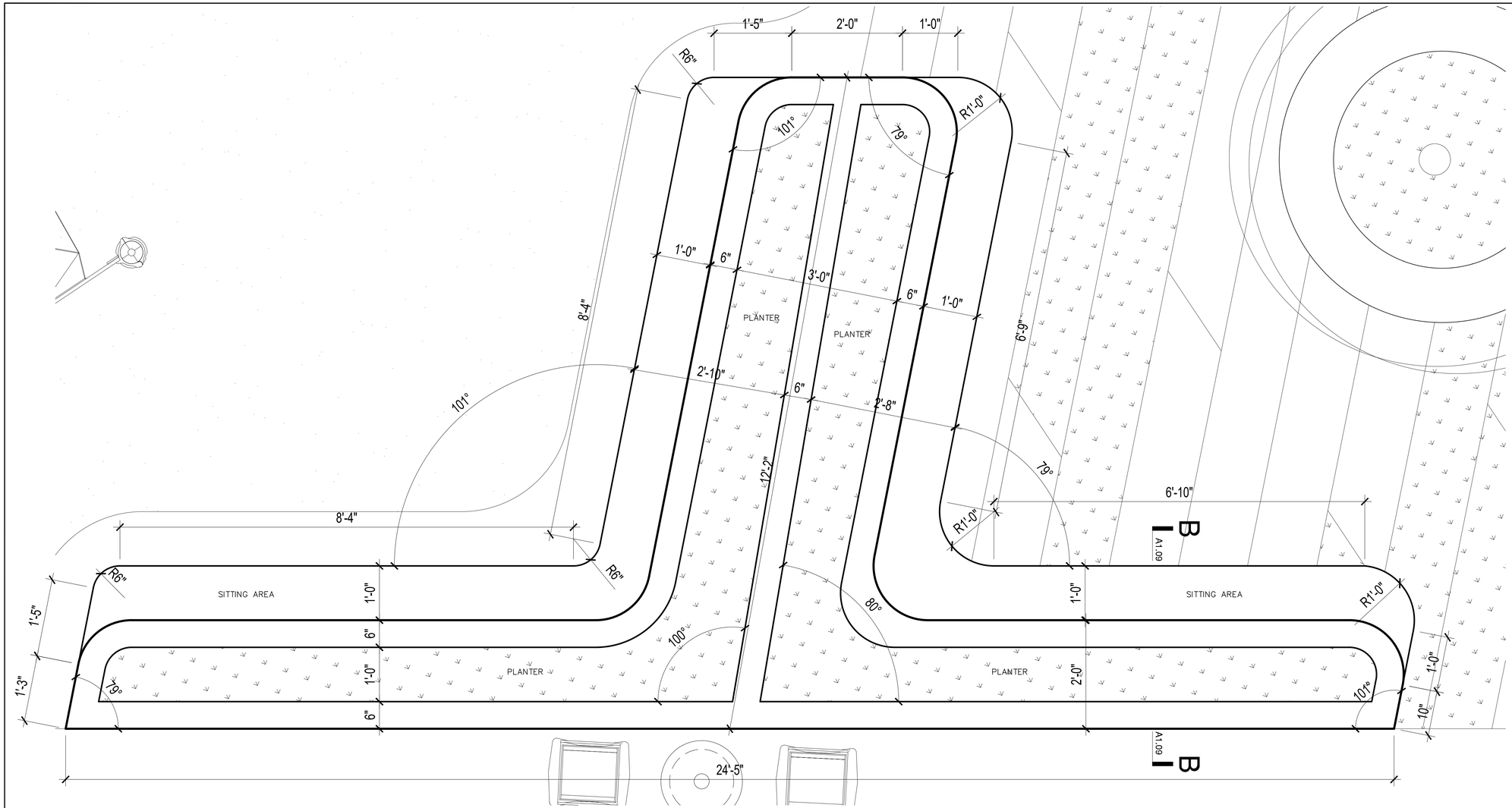
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED SITE DETAILS CAST-IN PLACE FURNITURE

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-109**	SHEET NO. 34 of 68



D2
A–110

CAST–IN PLACE FURNITURE DETAIL

SCALE: 1"=1'–0"

0' 5'

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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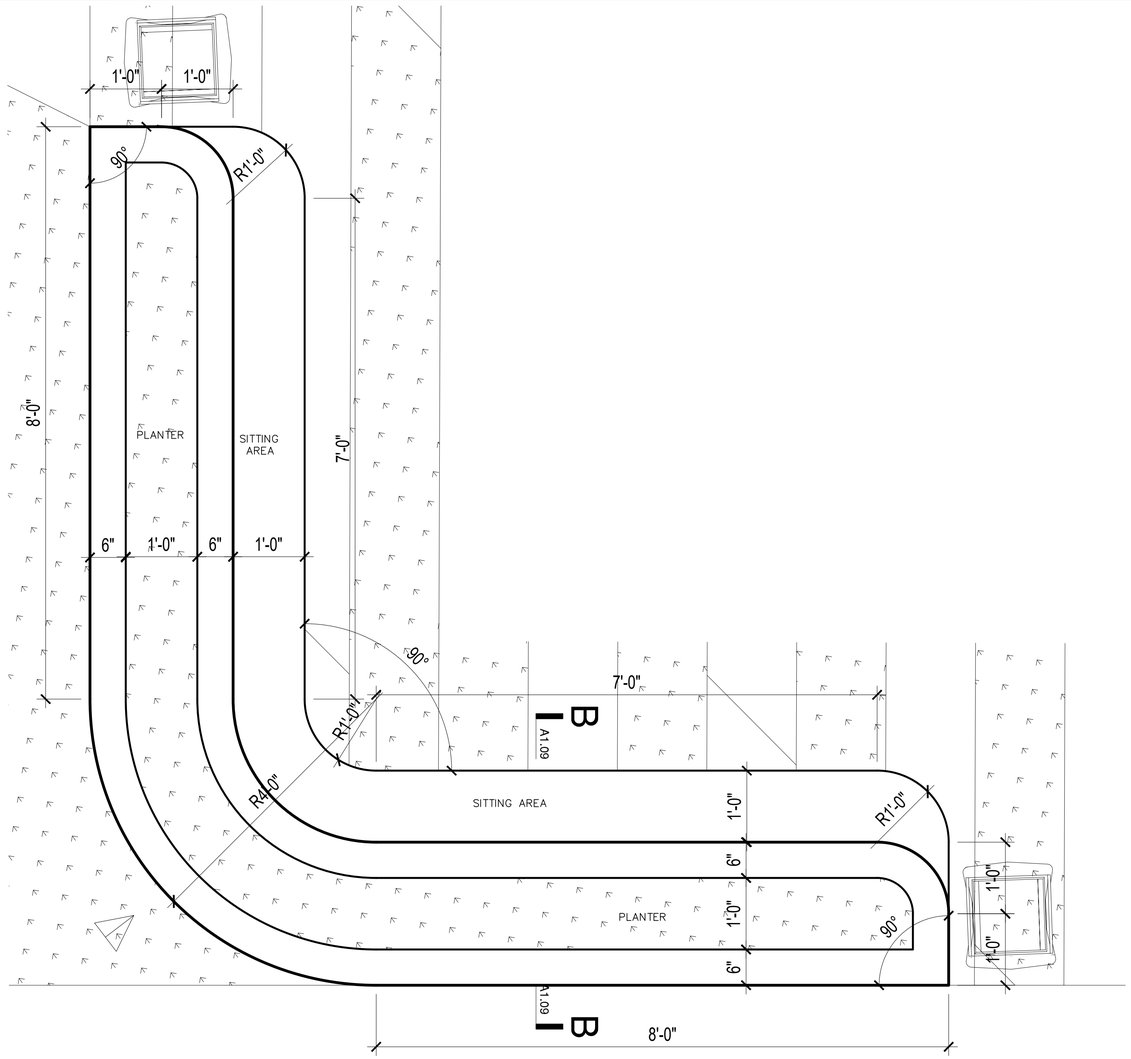
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED SITE DETAILS CAST-IN PLACE FURNITURE

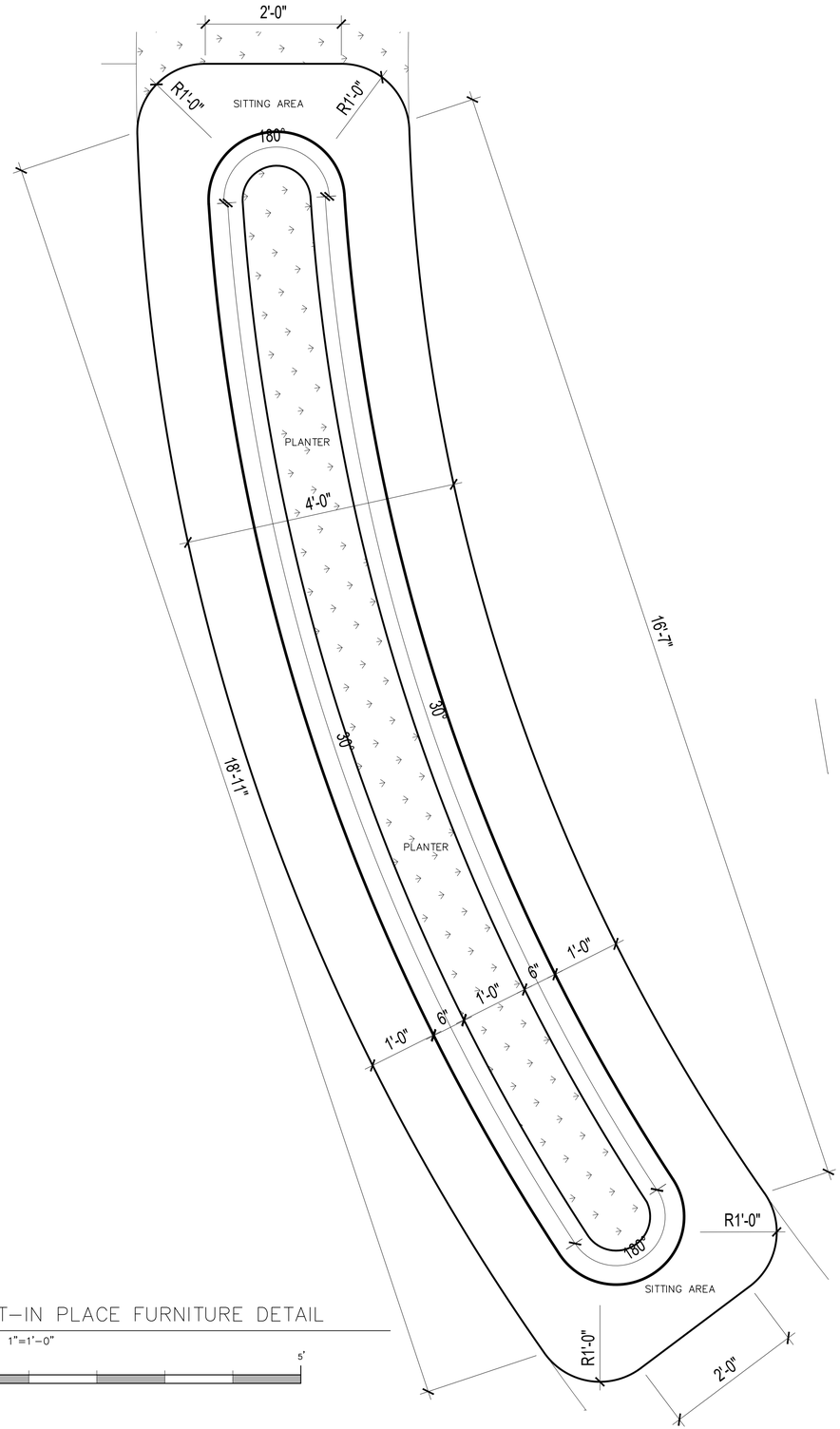
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-110**	SHEET NO. 35 of 68



D3 / A-111 CAST-IN PLACE FURNITURE DETAIL

SCALE: 1"=1'-0"

0' 5'



D4 / A-111 CAST-IN PLACE FURNITURE DETAIL

SCALE: 1"=1'-0"

0' 5'

LEGEND

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- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
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- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

TCM

APPROVED BY

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CONSULTANTS

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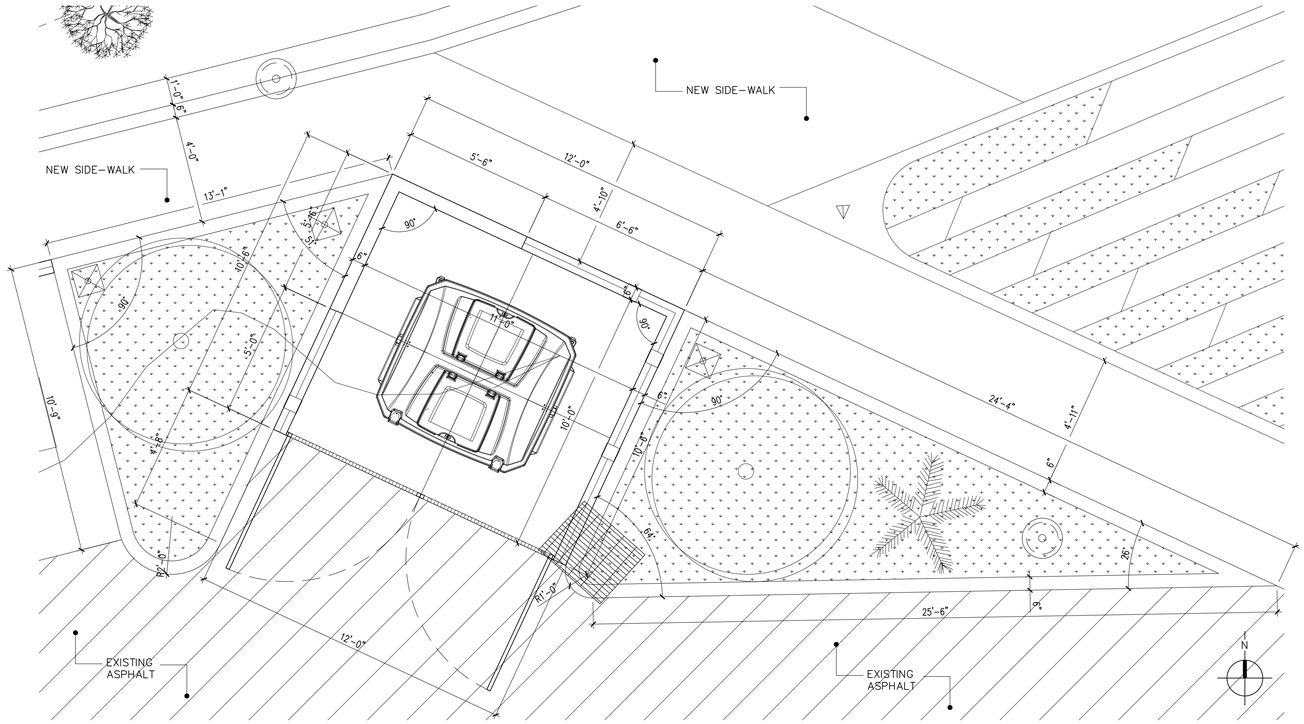
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED SITE DETAILS CAST-IN PLACE FURNITURE

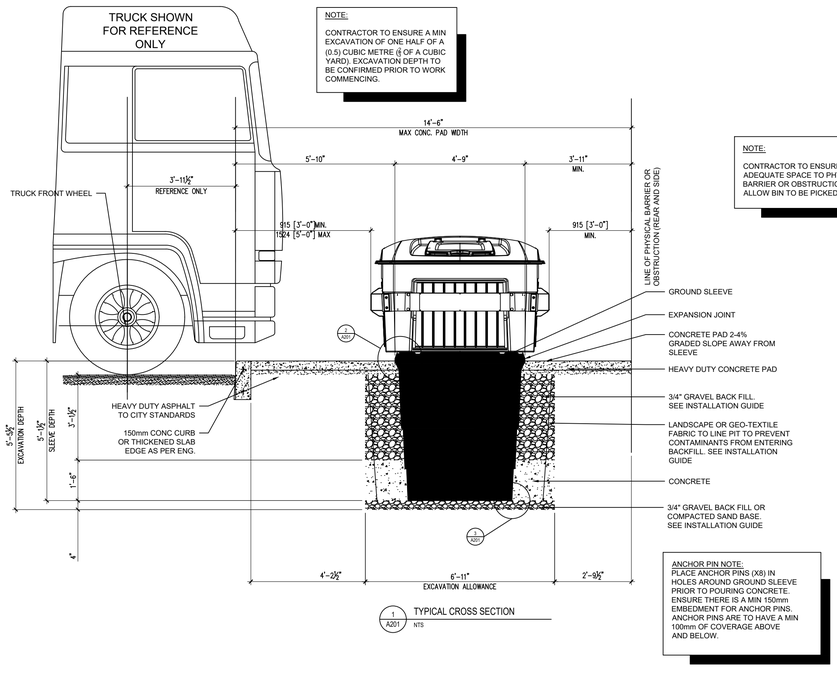
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-111**	SHEET NO. 36 of 68



E1 / A-201 ENLARGED PLAN DUMPSTER

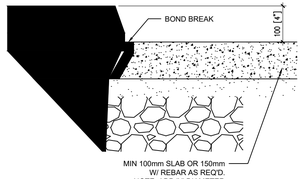
SCALE: 3/8"=1'-0"

0' 10' 15'

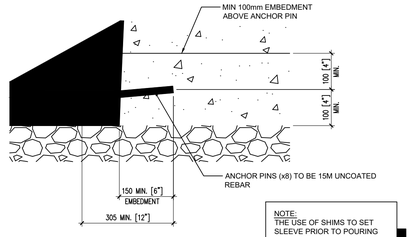


1 A201 TYPICAL CROSS SECTION NTS

NOTE:
CONTRACTOR TO ENSURE ADEQUATE SPACE TO PHYSICAL BARRIER OR OBSTRUCTION TO ALLOW BIN TO BE PICKED UP.

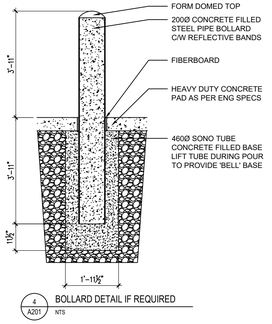


2 A201 SLEEVE DETAIL A NTS



3 A201 SLEEVE DETAIL B NTS

NOTE:
THE USE OF SHIMS TO SET SLEEVE PRIOR TO POURING CONCRETE IS ALLOWED.



4 A201 BOLLARD DETAIL IF REQUIRED NTS

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- D. NEW BENCH SHALL BE OR EQUAL TO PHOTON BENCH 02.409.1 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- E. NEW BICYCLE RACK SHALL BE OR EQUAL TO OPENER BICYCLE RACK 05.026 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
- G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI
- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

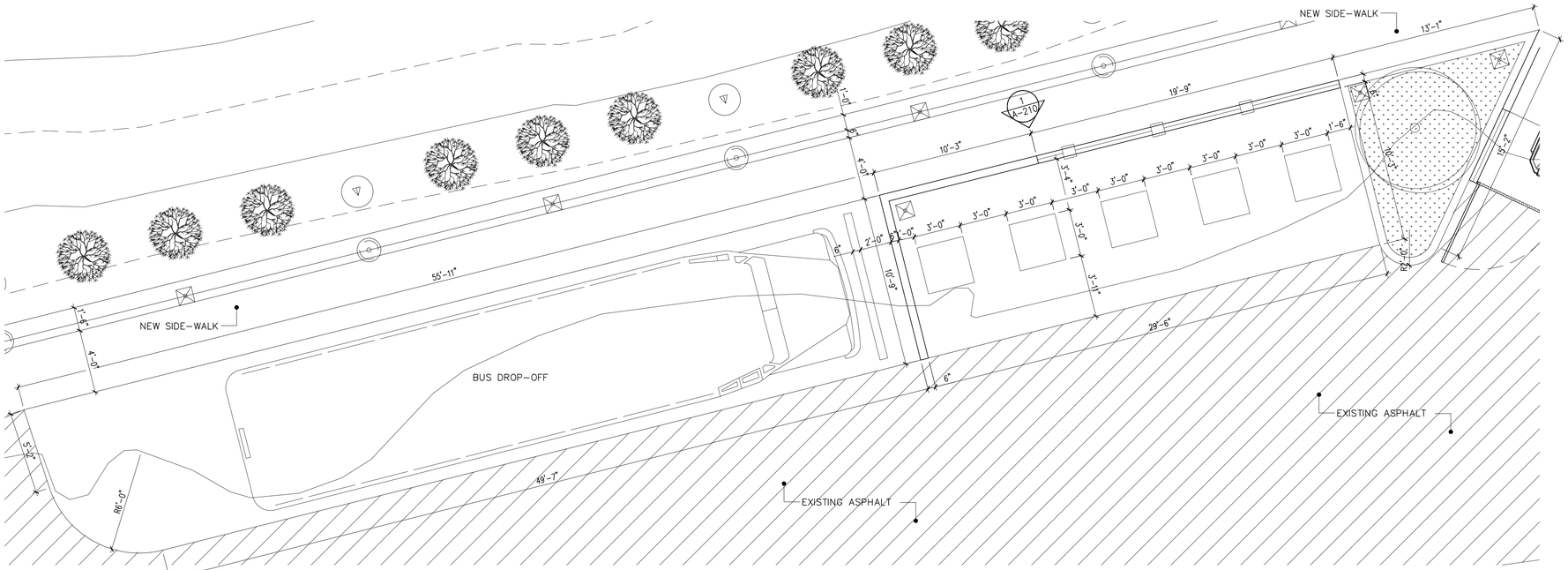
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED ENLARGED PLAN DUMPTERS

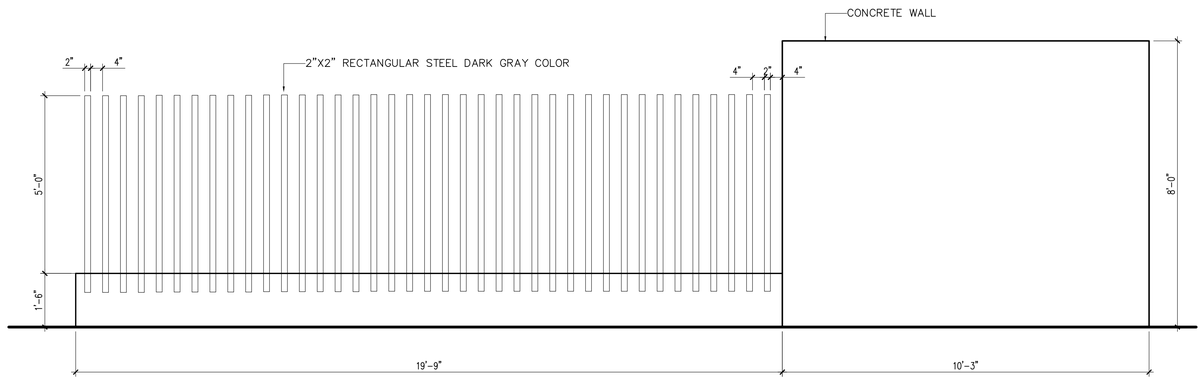
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-201**	SHEET NO. 37 of 68



ENLARGED PLAN PORTABLE BATHROOMS

E1 / A-210 SCALE: 1/4"=1'-0"

0' 10' 20'



ELEVATION

1 / A-210 SCALE: 1/2" = 1'-0"

LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- D. NEW BENCH SHALL BE OR EQUAL TO PHOTON BENCH 02.409.1 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- E. NEW BICYCLE RACK SHALL BE OR EQUAL TO OPENER BICYCLE RACK 05.026 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
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- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

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PR-CRP-001035

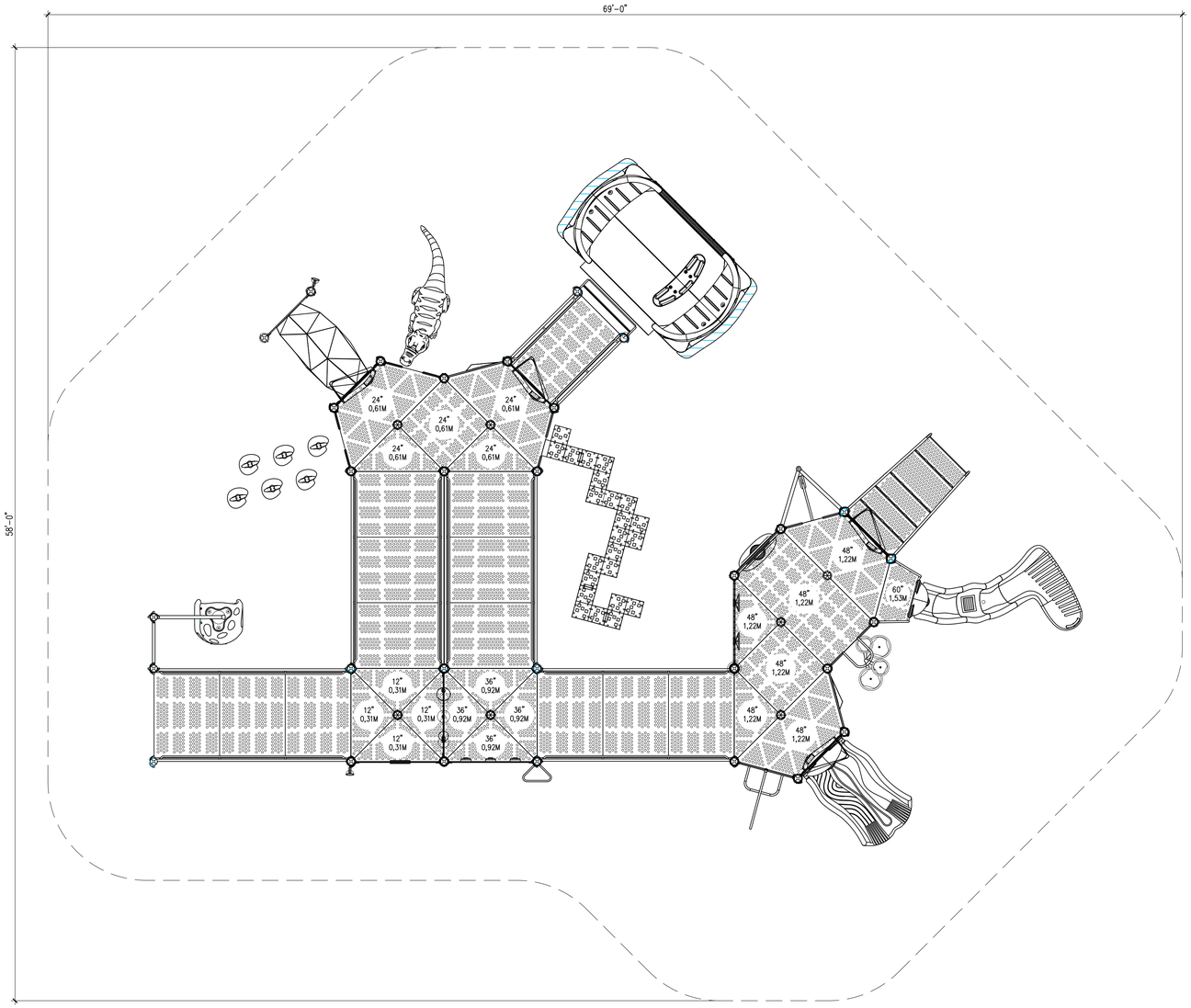
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED ENLARGED PLAN PORTABLE BATHROOMS

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-210**	SHEET NO. 38 of 68



E1 / A-220 ENLARGED PLAN [PLAYWORLD SYSTEMS]

SCALE: ¼"=1'–0"

0' 10' 20'

Imagination Station

500-2206

Equipment Manufacturer: PLAYWORLD

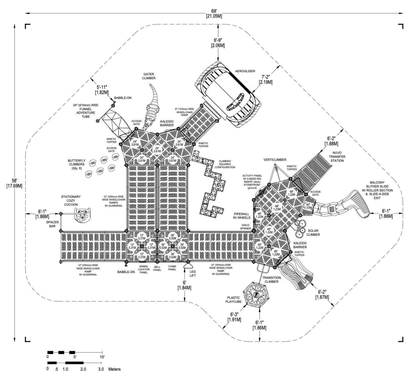


Imagination Station

500-2206

Equipment Manufacturer: PLAYWORLD





PLAYWORLD SYSTEMS, INC.
1000 Buffalo Road
Lewisburg, PA
17837-9795 USA

EQUIPMENT SIZE:
56'11" x 45'2" x16'0"
17,36M x 13,77M x 4,88M

USE ZONE:
69'0" x 58'0"
21,09M x 17,68M

AREA: **2,871 SqFt.** 266,72 SqM.
PERIMETER: **203'9"** 62,1M

FALL HEIGHT:
5 Ft.
1,53M

USER CAPACITY: **183**
AGE GROUP: **5-12**

ASA SCHEDULE	Total Elevated Play Activities:	15	
	Total Ground Level Play Activities:	5	
	Accessible Elevated Activities	Accessible Ground-Level Activities	Accessible Ground-Level Play Tubes
Required	8	5	3
Provided	14	5	5

✓ ASTM F1487-21
✓ CPSC #325

PROJECT NO: **500-2206**
DRAWN BY: **M. MERTZ**
DATE: **07-FEB-22**
Paper Size: **B**

IMAGINATION STATION
CATALOG PRE-CESSION

*PLAYGROUND SUPERVISION REQUIRED

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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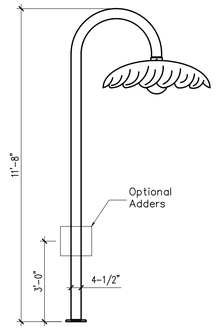
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

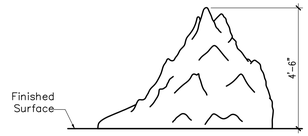
DRAWING NAME

PROPOSED ENLARGED PLAN PLAYGROUND

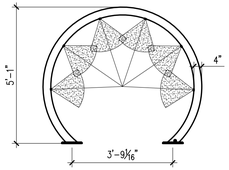
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-220**	SHEET NO. 39 of 68



D-1 / A-230 Flower Shower™
SCALE: 3/8" = 1'-0"



D-2 / A-230 Mini Mountain Aqua Slide
SCALE: 3/8" = 1'-0"



D-9 / A-230 Water Rings™
SCALE: 3/8" = 1'-0"



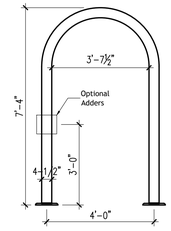
D-3 / A-230 Lazy Lizard Aqua Sprayer
SCALE: 3/8" = 1'-0"



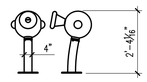
D-4 / A-230 Felipe Frog Aqua Spout
SCALE: 3/8" = 1'-0"



D-8 / A-230 Delilah Dragonfly Aqua Spout
SCALE: 3/8" = 1'-0"



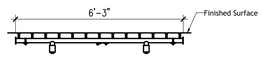
D-11 / A-230 Water Way™
SCALE: 3/8" = 1'-0"



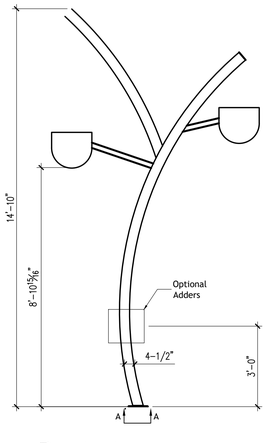
D-15 / A-230 C020 Single Bit™
SCALE: 3/8" = 1'-0"



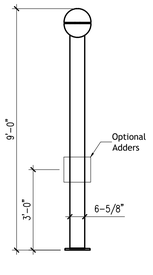
D-5 / A-230 Sunflower Aqua Spout
SCALE: 3/8" = 1'-0"



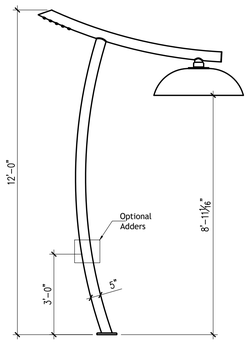
D-6 / A-230 Water Fence
SCALE: 3/8" = 1'-0"



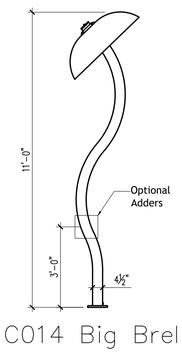
D-10 / A-230 Dew Buckets™
SCALE: 3/8" = 1'-0"



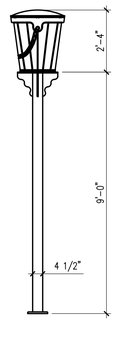
Crystal Dome™



C015 Zen Shower™



C014 Big Brella™



D-12 / A-230 Tidal Bucket™
SCALE: 3/8" = 1'-0"

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

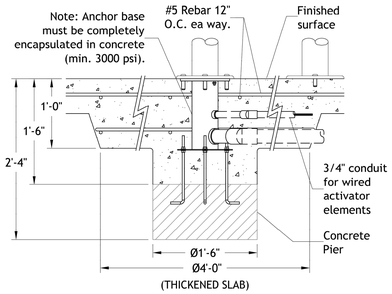
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

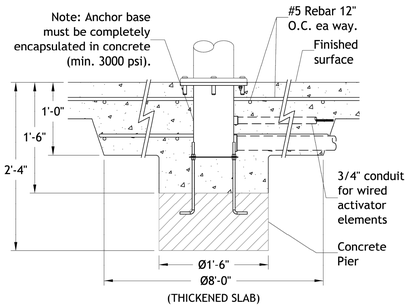
PROPOSED ENLARGED PLAN SPLASH ZONE

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-230**	SHEET NO. 40 of 68



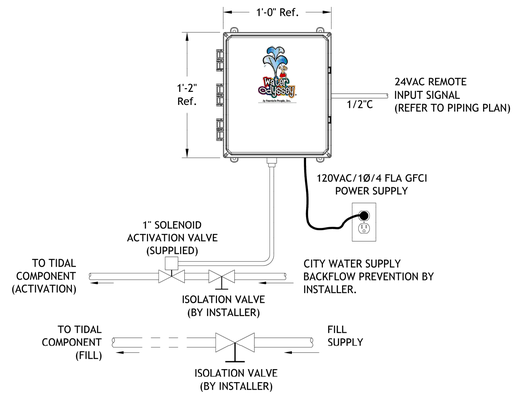
FLOWER SHOWER 1 ANCHOR BASE

SCALE: NOT TO SCALE



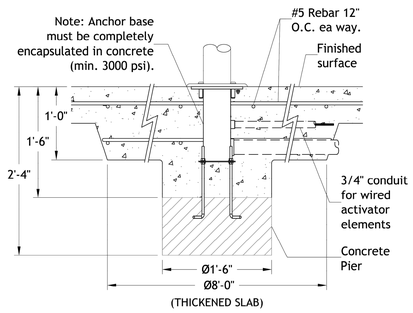
DEW BUCKETS 4 ANCHOR BASE

SCALE: NOT TO SCALE



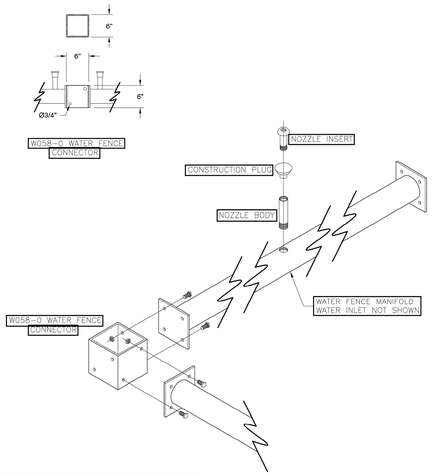
TIDAL BUCKET 7 ELECTRIC AND FOUNDATION

SCALE: NOT TO SCALE



C014 BIG BRELLA 9 ANCHOR BASE

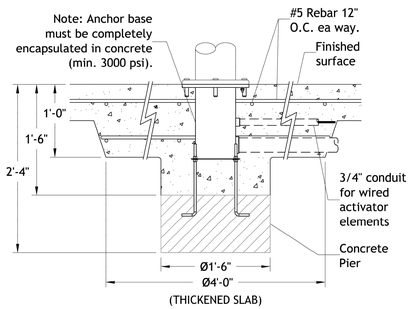
SCALE: NOT TO SCALE



NOTES:
1. THIS ASSEMBLY DETAIL IS GENERIC IN NATURE. ACTUAL MANIFOLDS DIFFER IN LENGTH AND NUMBER OF NOZZLES.

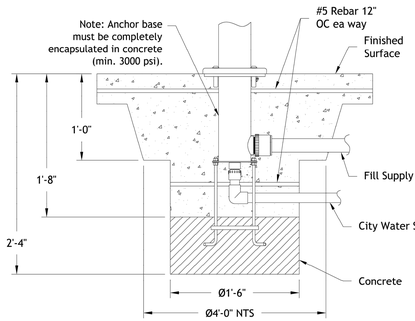
WATER FENCE 2 ASSEMBLY DETAIL

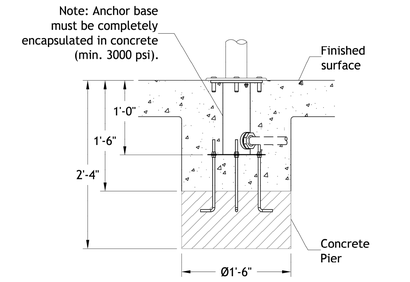
SCALE: NOT TO SCALE



CRISTAL DOME 5 ANCHOR BASE

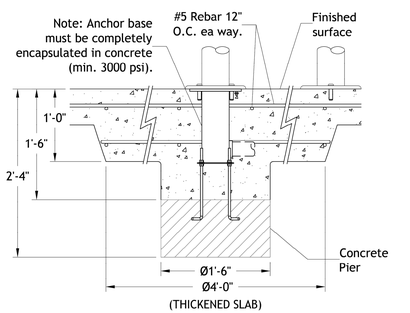
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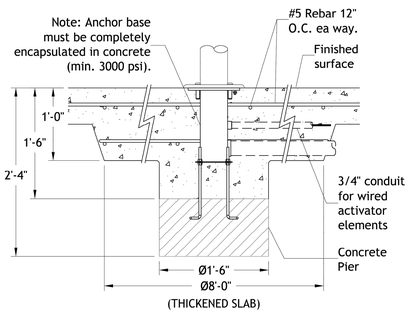
C020 SINGLE BIT 10 ANCHOR BASE

SCALE: NOT TO SCALE



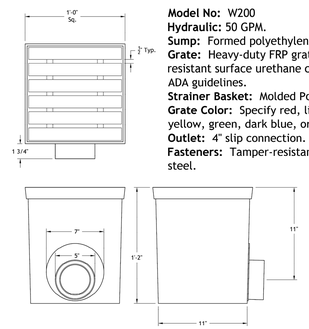
WATER WAY 3 ANCHOR BASE

SCALE: NOT TO SCALE



C015 ZEN SHOWER 8 ANCHOR BASE

SCALE: NOT TO SCALE



Model No: W200
Hydraulic: 50 GPM.
Sump: Formed polyethylene.
Grate: Heavy-duty FRP grate with skid resistant surface urethane coating. Meets ADA guidelines.
Strainer Basket: Molded Polyurethane
Grate Color: Specify red, light blue, yellow, green, dark blue, orange, or purple.
Outlet: 4" slip connection.
Fasteners: Tamper-resistant 18/8 stainless steel.

PLAIN DRAIN

SCALE: NOT TO SCALE

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

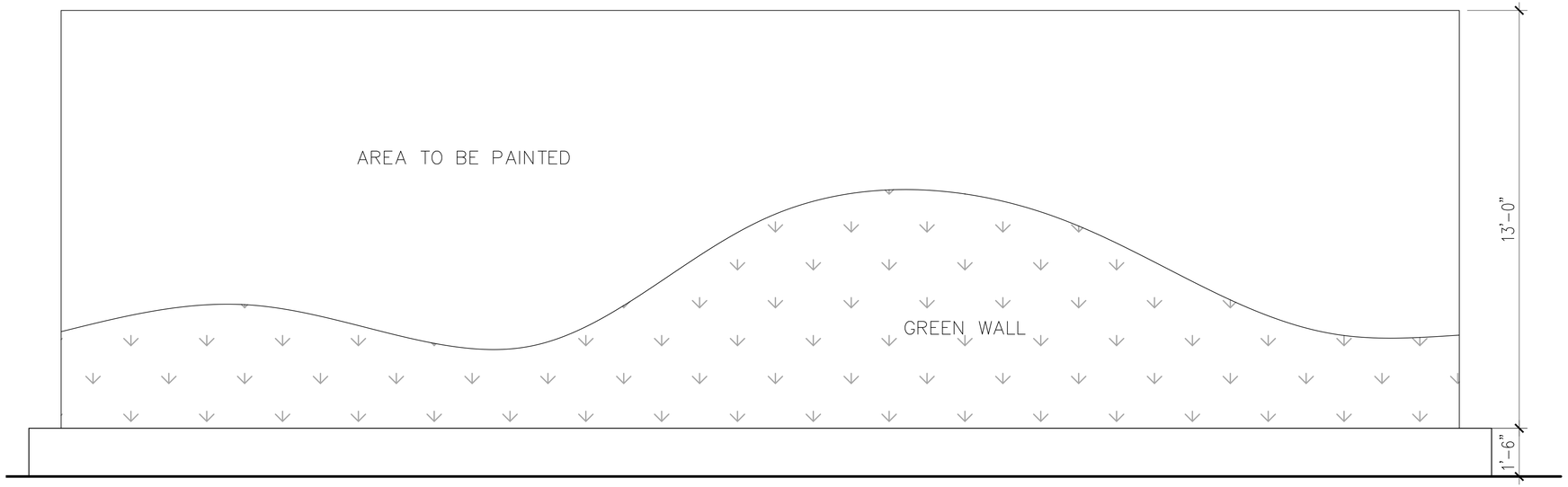
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

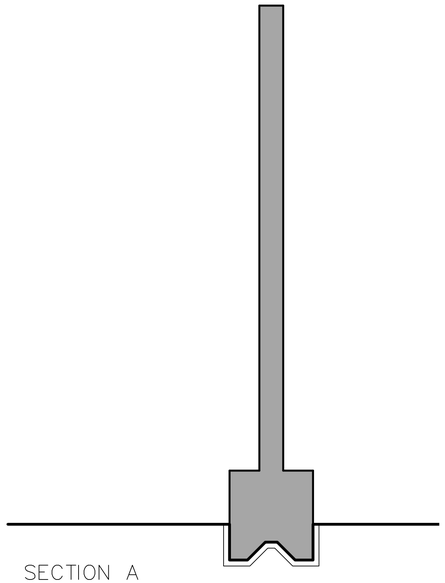
DRAWING NAME

PROPOSED ENLARGED PLAN
SPLASH ZONE

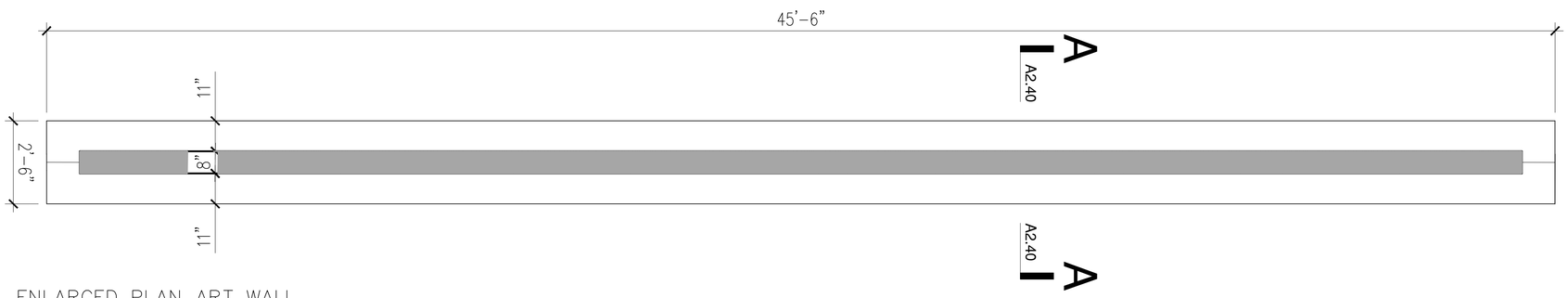
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. A-231	SHEET NO. 41 of 68



ELEVATION



SECTION A



E1
A-240

ENLARGED PLAN ART WALL

SCALE: ½"=1'-0"

0' 10'

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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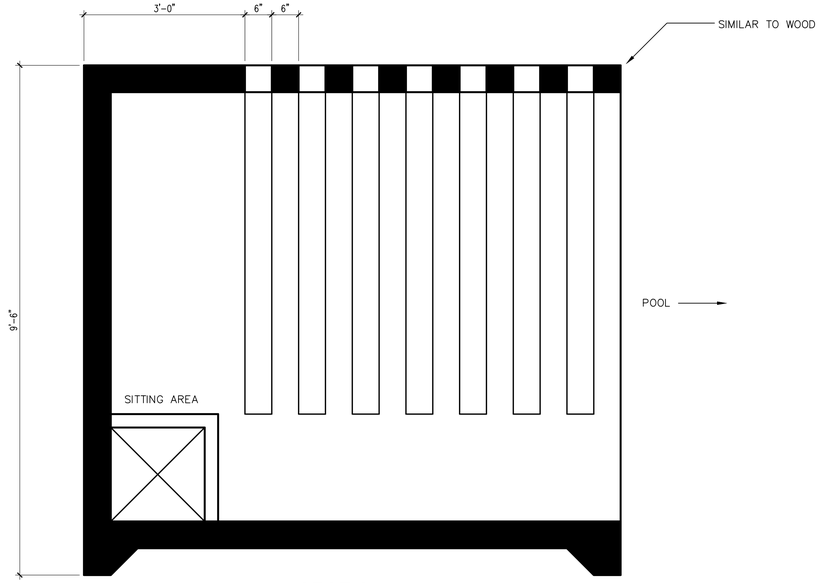
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

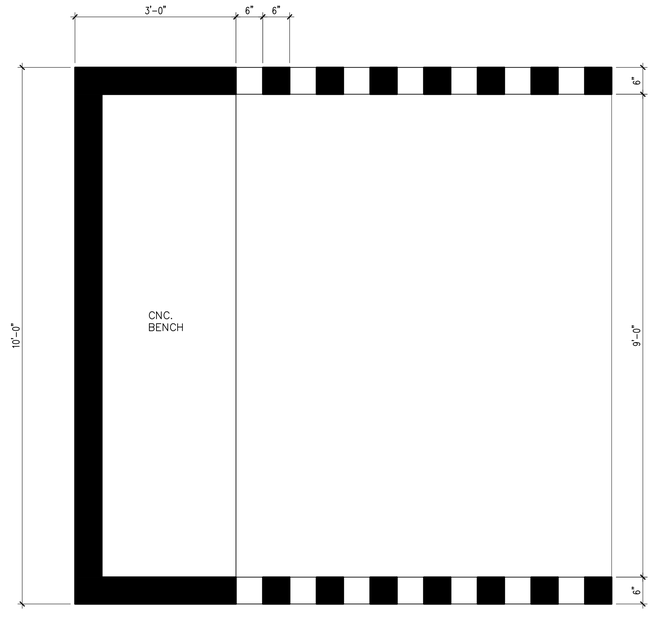
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PROPOSED ENLARGED PLAN ART WALL

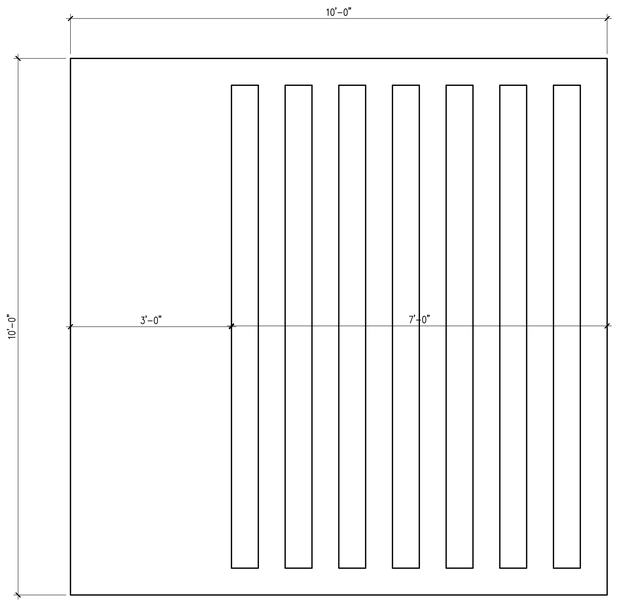
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-240**	SHEET NO. 42 of 68



SECTION



FLOOR PLAN



TOP VIEW

E1
A-250

ENLARGED PLAN POOL GAZEBOS

SCALE: ¾"=1'-0"

0' 5' 7'

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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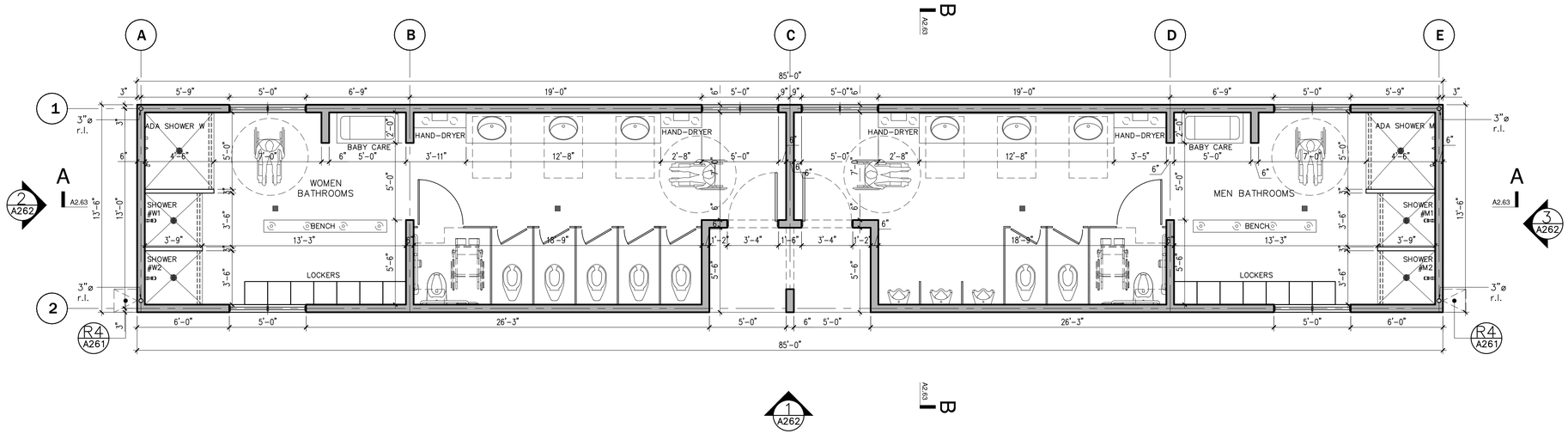
BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED ENLARGED PLAN
POOL GAZEBOS

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-250**	SHEET NO. 43 of 68



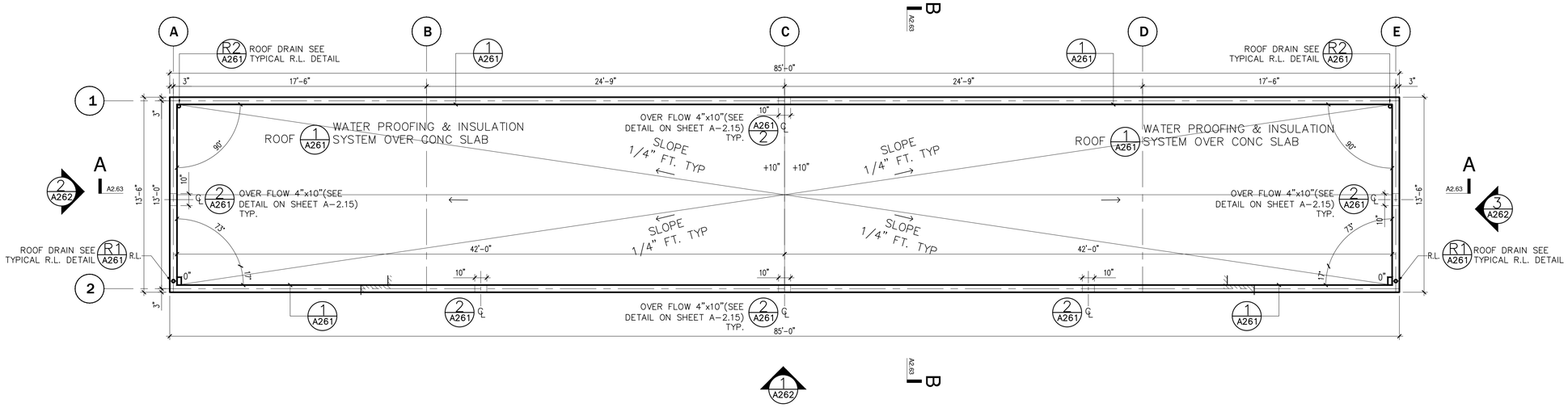
E1 A-260

ENLARGED FLOOR PLAN BATHROOMS

SCALE: ¼"=1'-0"

0' 10' 20'

NOTE: ALL REINFORCED CONCRETE WALLS AND/OR C.M.U. SHALL BE SMOOTH CEMENT PLASTER [S.C.P.] AND PAINT FINISHED TYPICAL UNLESS OTHERWISE NOTED APPLIES TO INTERIOR AND EXTERIOR.



ENLARGED ROOF PLAN BATHROOMS

SCALE: ¼"=1'-0"

0' 10' 20'

NOTE: ALL REINFORCED CONCRETE WALLS AND/OR C.M.U. SHALL BE SMOOTH CEMENT PLASTER [S.C.P.] AND PAINT FINISHED TYPICAL UNLESS OTHERWISE NOTED APPLIES TO INTERIOR AND EXTERIOR.

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

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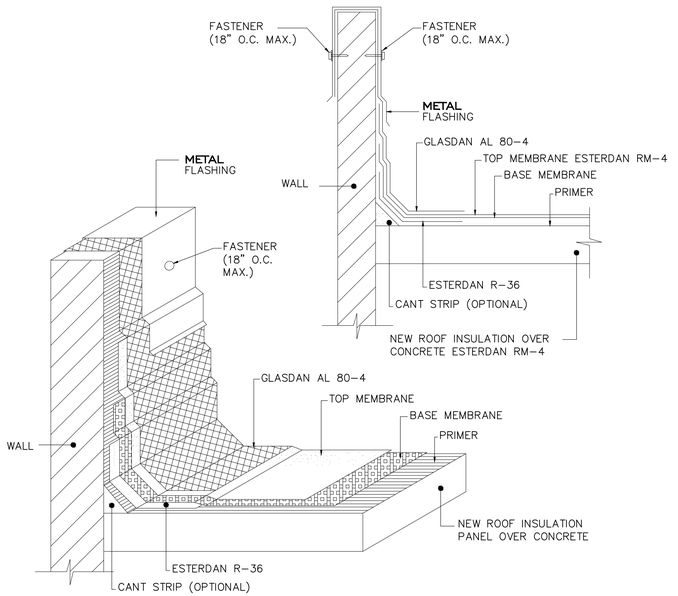
BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED ENLARGED FLOOR PLAN + ROOF PLAN BATHROOMS

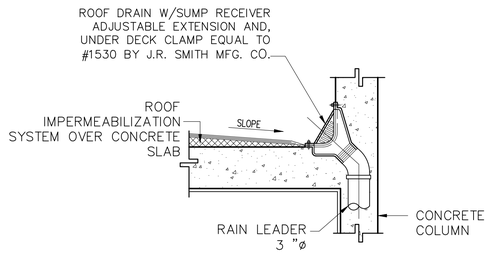
SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-260**	SHEET NO. 44 of 68



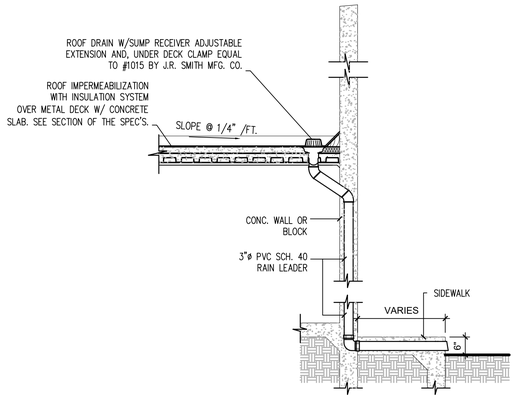
METAL FLASHING TYPICAL DETAIL

IMPORTANT NOTES:

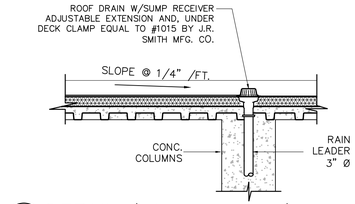
1. ROOF IMPERMEABILIZATION WITH INSULATION SYSTEM OVER CONCRETE SLAB 2 ½" FOAM INSULATION, 2 PLY ASSEMBLY WITH "BASEDAN II" FIBERGLASS MAT, "ESTERDAN R-36" BASE & "ESTERDAN RM-4" GLASDAM AL80-4 BY DANOSA ROOFING PRODUCTS. 1-866-5DANOSA. WWW.DANOSAPR.COM SEE INSTALLATION DRAWING DETAILS



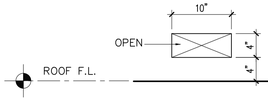
R1 A261 TYPICAL RAIN LEADER DETAIL (where occurs)
SCALE: 1"=1'-0"
NEW WALL CONDITION PIPING INSIDE CONC WALL



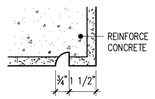
R2 A261 TYPICAL RAIN LEADER DETAIL (WHERE OCCURS)
SCALE: 1/2"=1'-0"



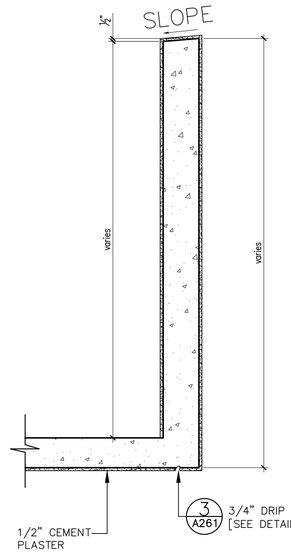
R3 A261 DETAIL (where occurs)
SCALE: 3/4" = 1'-0"



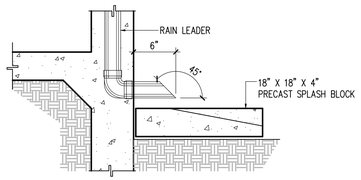
2 A261 OVER FLOW DETAIL
SCALE: 1"=1'-0"



3 A261 TYPICAL DRIP DETAIL (where occurs)
SCALE: 3"=1'-0"

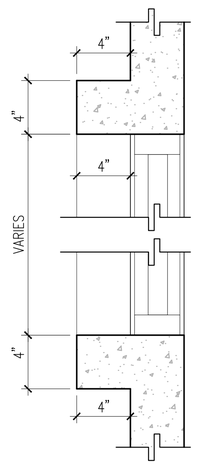


4 A261 PARAPET DETAIL
SCALE: 3/8" = 1'-0"

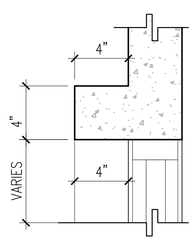


R4 A261 TYP. RAIN LEADER END CONDITION (where occurs)
SCALE: 1"=1'-0"

1 A261 ROOF IMPERMEABILIZATION DETAIL
1" = 1'-0"



CONCRETE EXTERIOR WINDOW OPENING WEATHER PROTECTOR DETAIL (WHERE OCCURS)
SCALE: 1 1/2"=1'-0"



CONCRETE EXTERIOR DOOR OPENING WEATHER PROTECTOR DETAIL (WHERE OCCURS)
SCALE: 1 1/2"=1'-0"

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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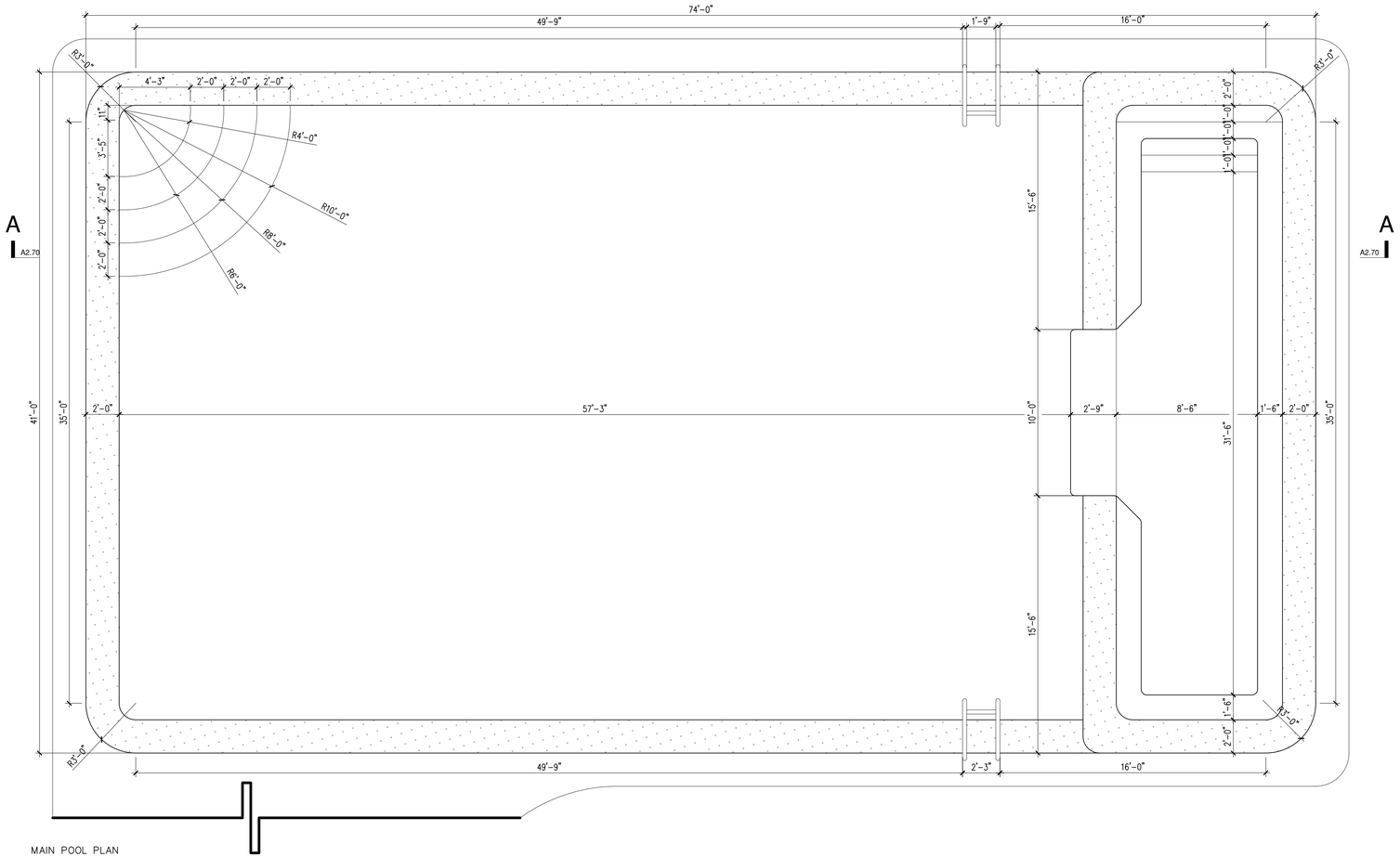
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

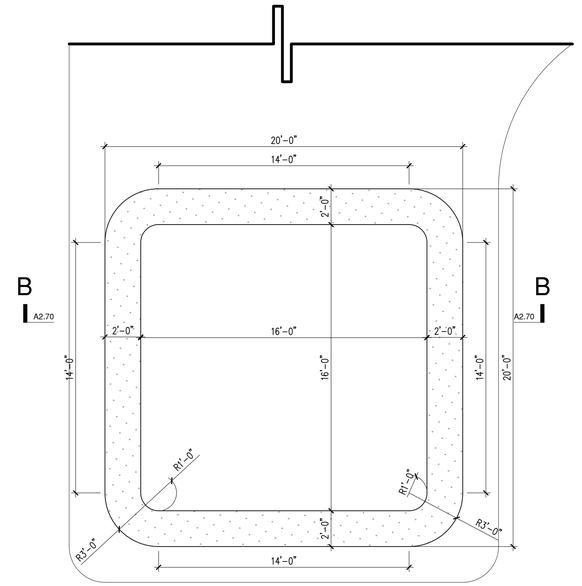
PROPOSED ENLARGED PLAN BATHROOMS DETAILS

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-261**	SHEET NO. 45 of 68



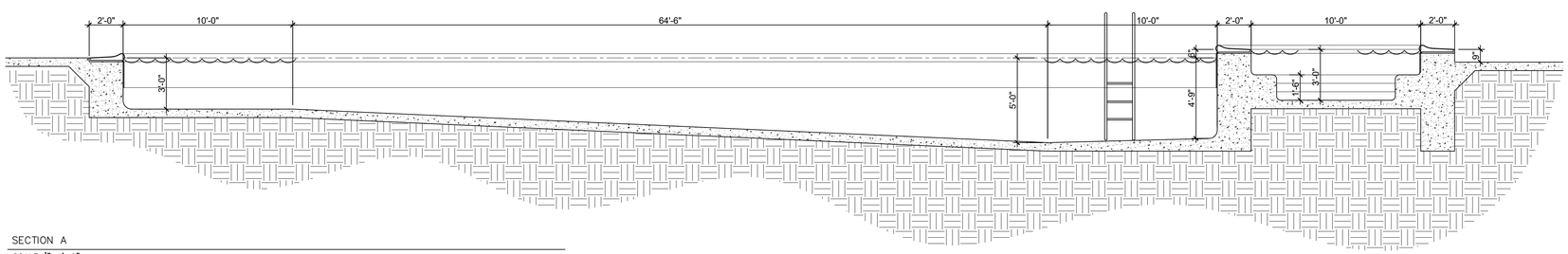
MAIN POOL PLAN

SCALE $\frac{1}{4}$"=1'-0"



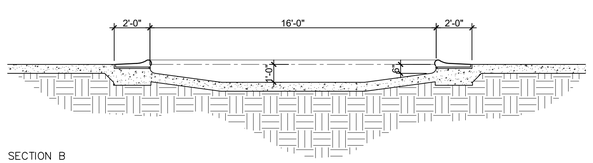
KIDS POOL PLAN

SCALE $\frac{1}{4}$"=1'-0"



SECTION A

SCALE $\frac{1}{4}$"=1'-0"



SECTION B

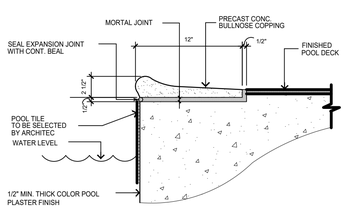
SCALE $\frac{1}{4}$"=1'-0"

E1
A-270

ENLARGED PLAN POOL

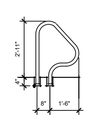
SCALE: $\frac{1}{4}$"=1'-0"

0' 10' 20'



POOL COPING DETAIL

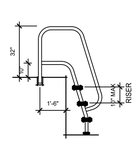
N.T.S.



SPA GRAB RAIL

NOT TO SCALE

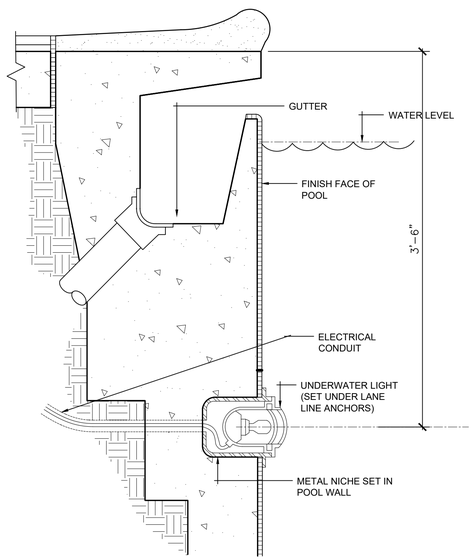
NOTE :
SPA GRAB BAR SHALL BE "KDI PARAGON INC". 145 WALL 30101 WITH ANCHOR SOCKETS AND DELUXE ESCUTCHEON PLATES.



POOL LADDER DETAIL

NOT TO SCALE

NOTES :
1 - POOL LADDER SHALL BE "KDI PARAGON" INC. 5 STEPS., 145 WALL THICKNESS OF TUBING MODEL 42704.
2 - PROVIDE ANCHOR SOCKET. (2 REQUIRED PER LADDER)



UNDERWATER LIGHT DETAIL

SCALE: 1-1/2"=1'-0"

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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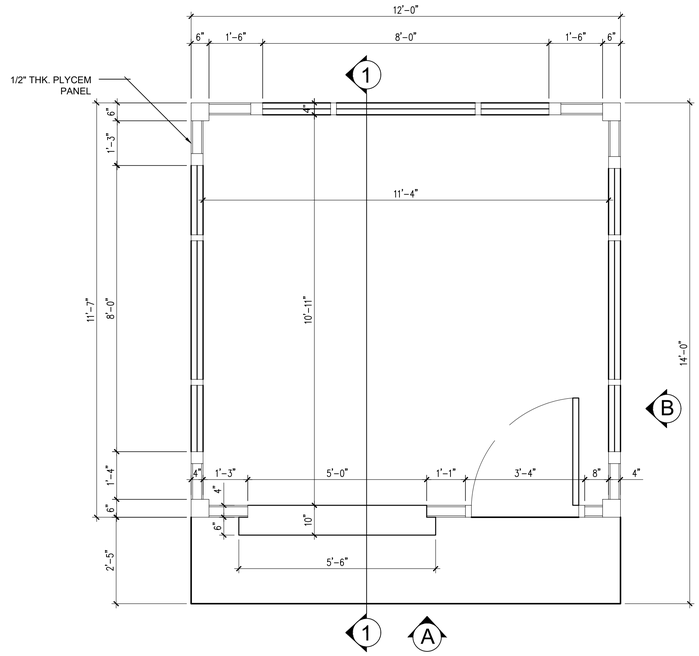
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

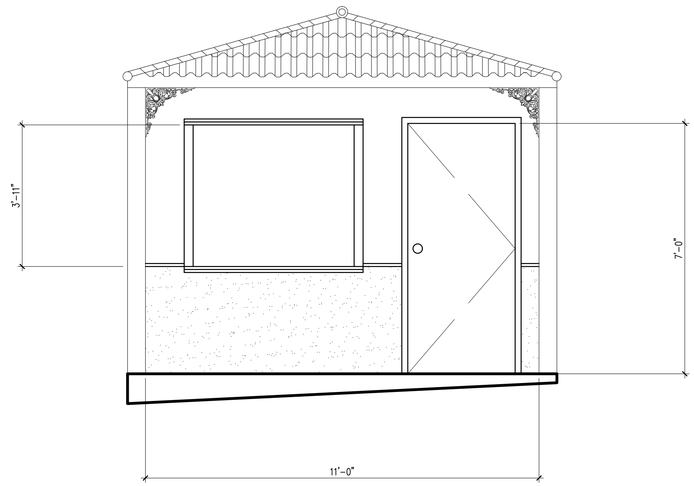
DRAWING NAME

PROPOSED ENLARGED PLAN POOL

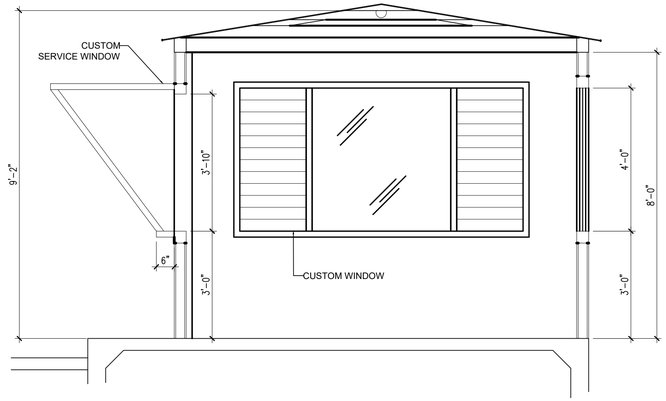
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-270**	SHEET NO. 46 of 68



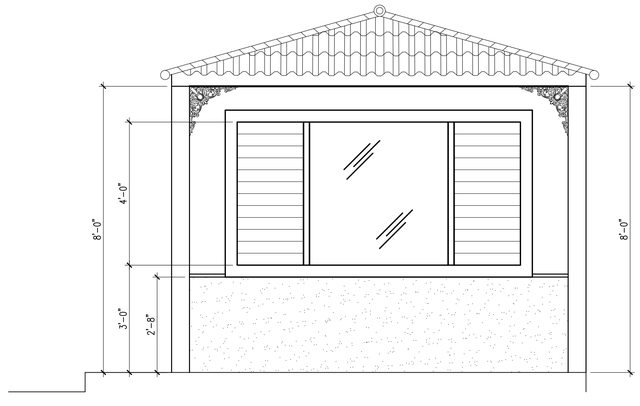
FLOOR PLAN



FRONT ELEVATION A



SECTION A



ELEVATION B

E1
A-280

ENLARGED PLAN GAZEBOS

SCALE: ½"=1'-0"



TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

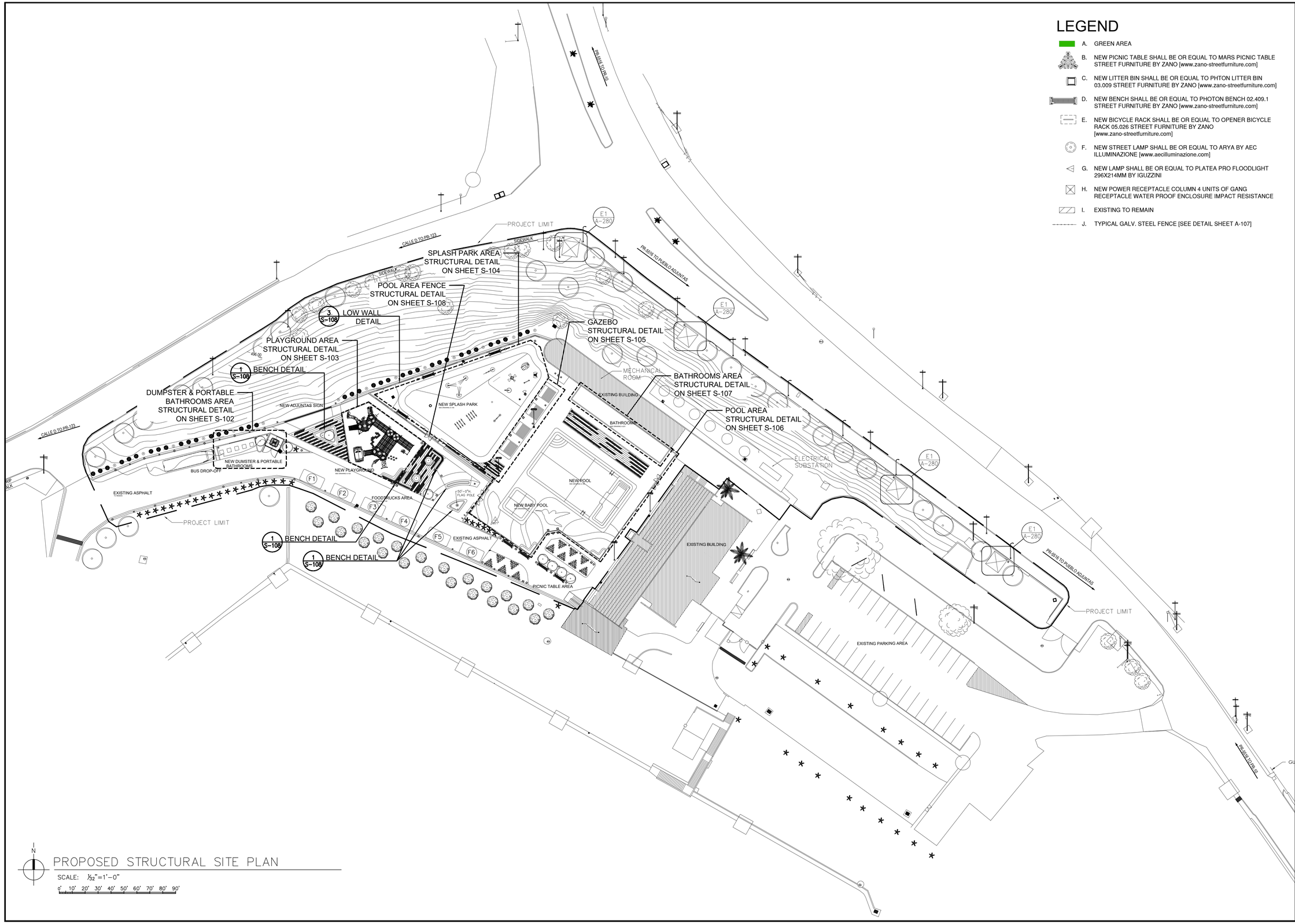
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

PROPOSED ENLARGED PLAN GAZEBOS

SCALE:	BIDDEN DATE: DEC. 2023
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **A-280**	SHEET NO. 47 of 68



LEGEND

- A. GREEN AREA
- B. NEW PICNIC TABLE SHALL BE OR EQUAL TO MARS PICNIC TABLE STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- C. NEW LITTER BIN SHALL BE OR EQUAL TO PHTON LITTER BIN 03.009 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- D. NEW BENCH SHALL BE OR EQUAL TO PHOTON BENCH 02.409.1 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- E. NEW BICYCLE RACK SHALL BE OR EQUAL TO OPENER BICYCLE RACK 05.026 STREET FURNITURE BY ZANO [www.zano-streetfurniture.com]
- F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]
- G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI
- H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE
- I. EXISTING TO REMAIN
- J. TYPICAL GALV. STEEL FENCE [SEE DETAIL SHEET A-107]

N

PROPOSED STRUCTURAL SITE PLAN

SCALE: 1/32"=1'-0"

0' 10' 20' 30' 40' 50' 60' 70' 80' 90'

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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PR-CRP-001035

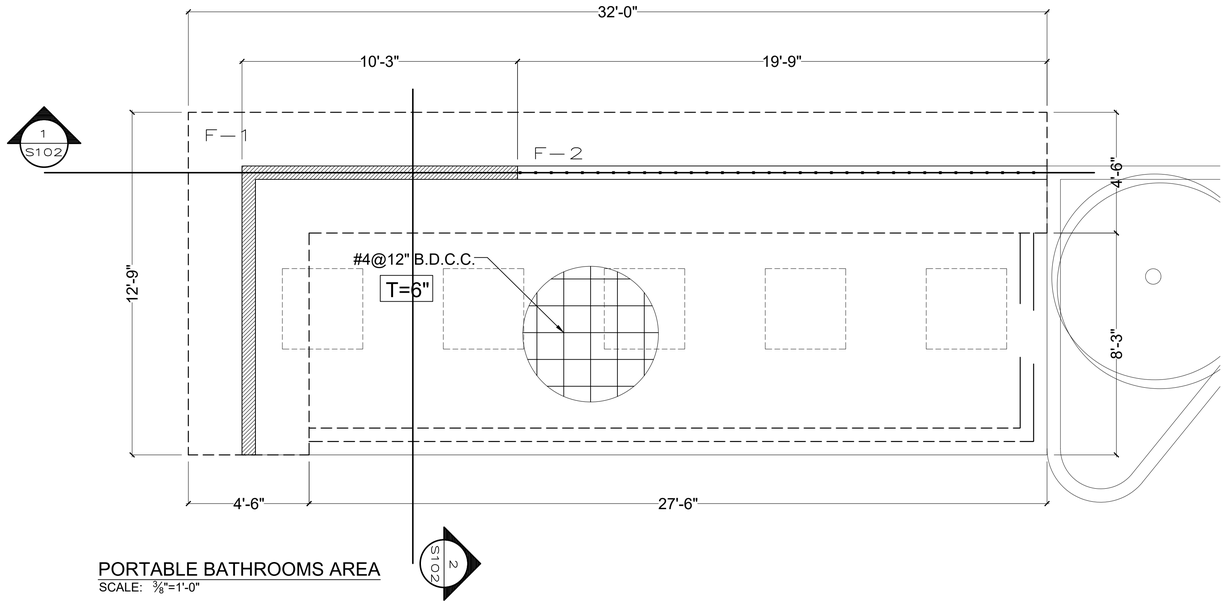
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

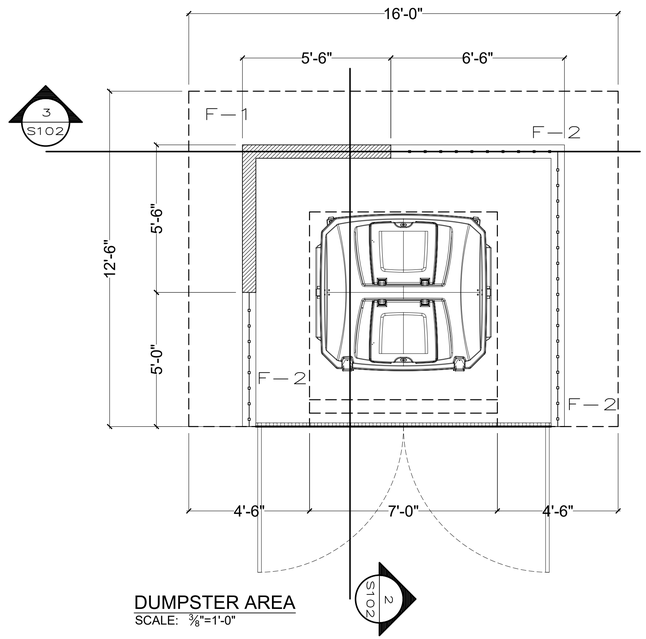
DRAWING NAME

PROPOSED STRUCTURAL SITE PLAN (KEY PLAN)

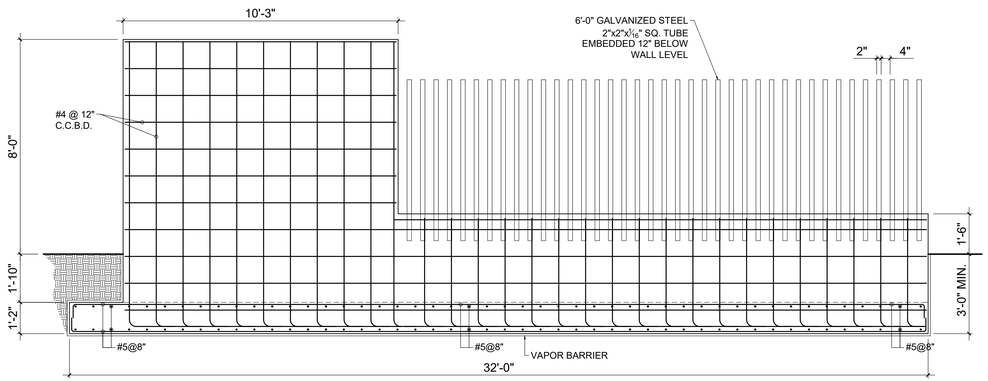
SCALE:	BIDDEN DATE:
1/32"=1'-0"	JAN. 2024
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
S-101	48 of 68



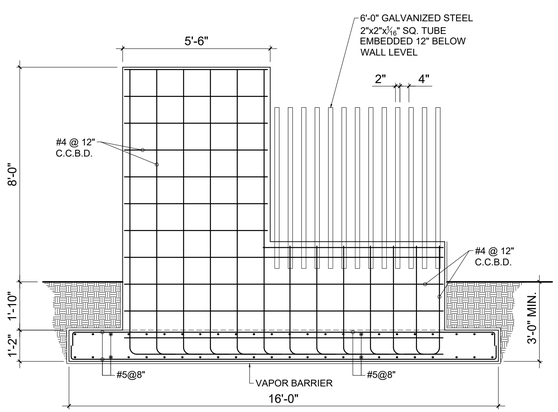
PORTABLE BATHROOMS AREA
SCALE: ⅜"=1'-0"



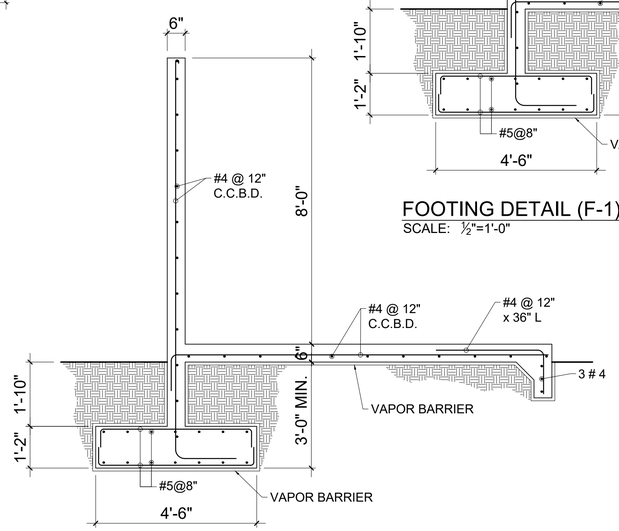
DUMPSTER AREA
SCALE: ⅜"=1'-0"



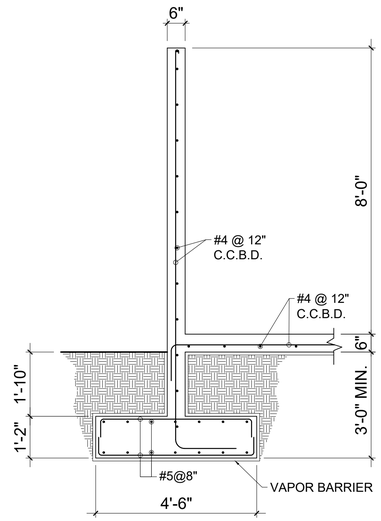
SECTION 1
SCALE: ⅜"=1'-0"



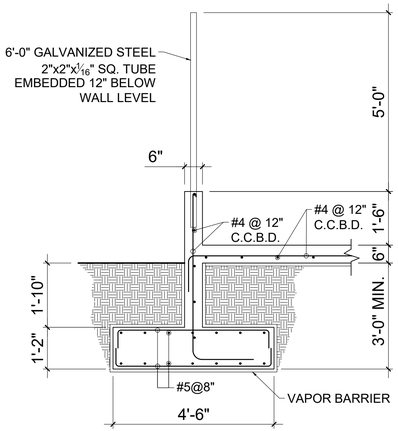
SECTION 3
SCALE: ½"=1'-0"



SECTION 2
SCALE: ½"=1'-0"



FOOTING DETAIL (F-1)
SCALE: ½"=1'-0"



FOOTING DETAIL (F-2)
SCALE: ½"=1'-0"

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

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PR-CRP-001035

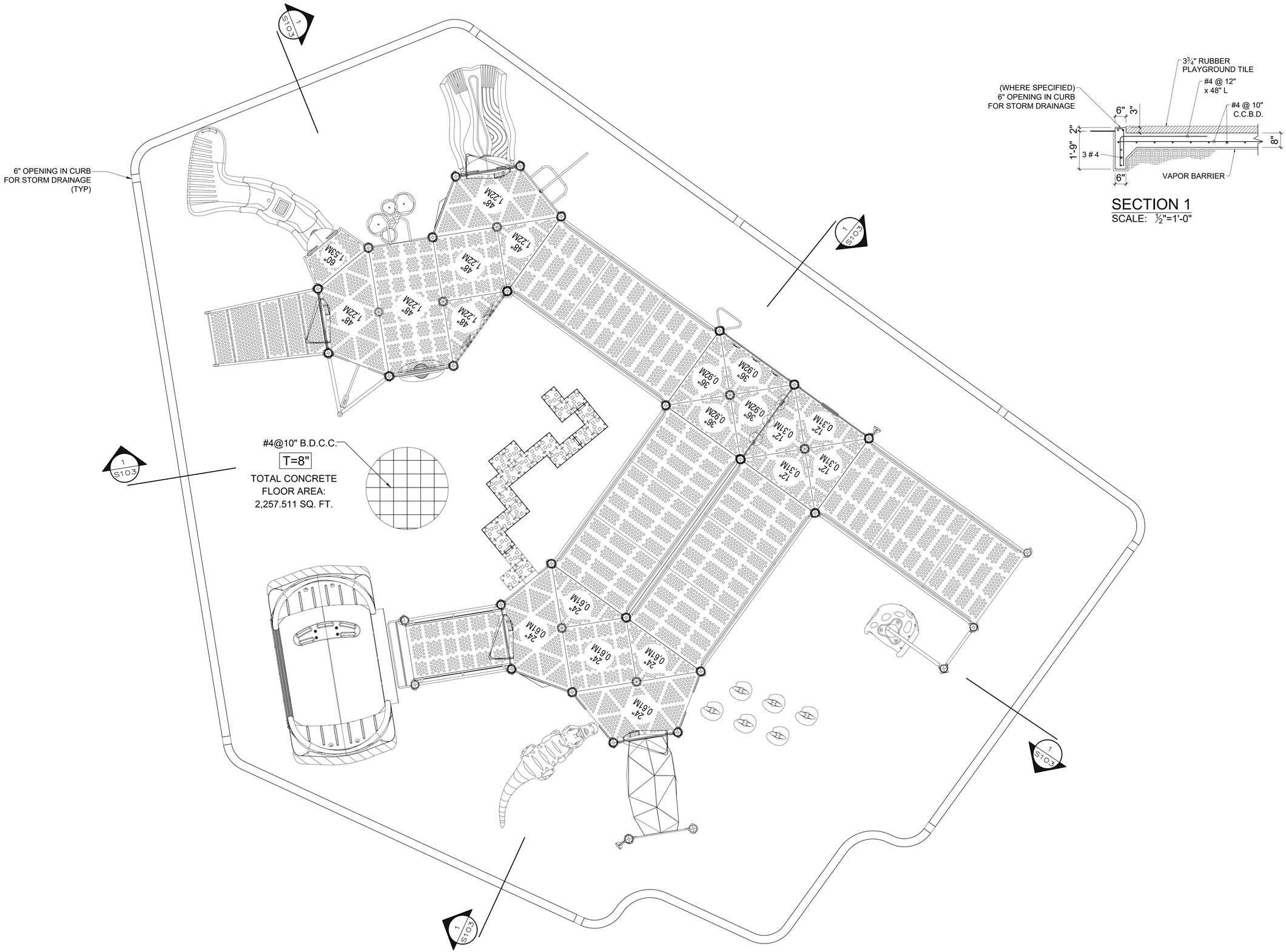
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

DUMPSTER AND PORTABLE BATHROOMS AREA STRUCTURAL PLAN

SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-102**	SHEET NO. 49 of 68



SECTION 1
SCALE: ½"=1'-0"

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

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PR-CRP-001035

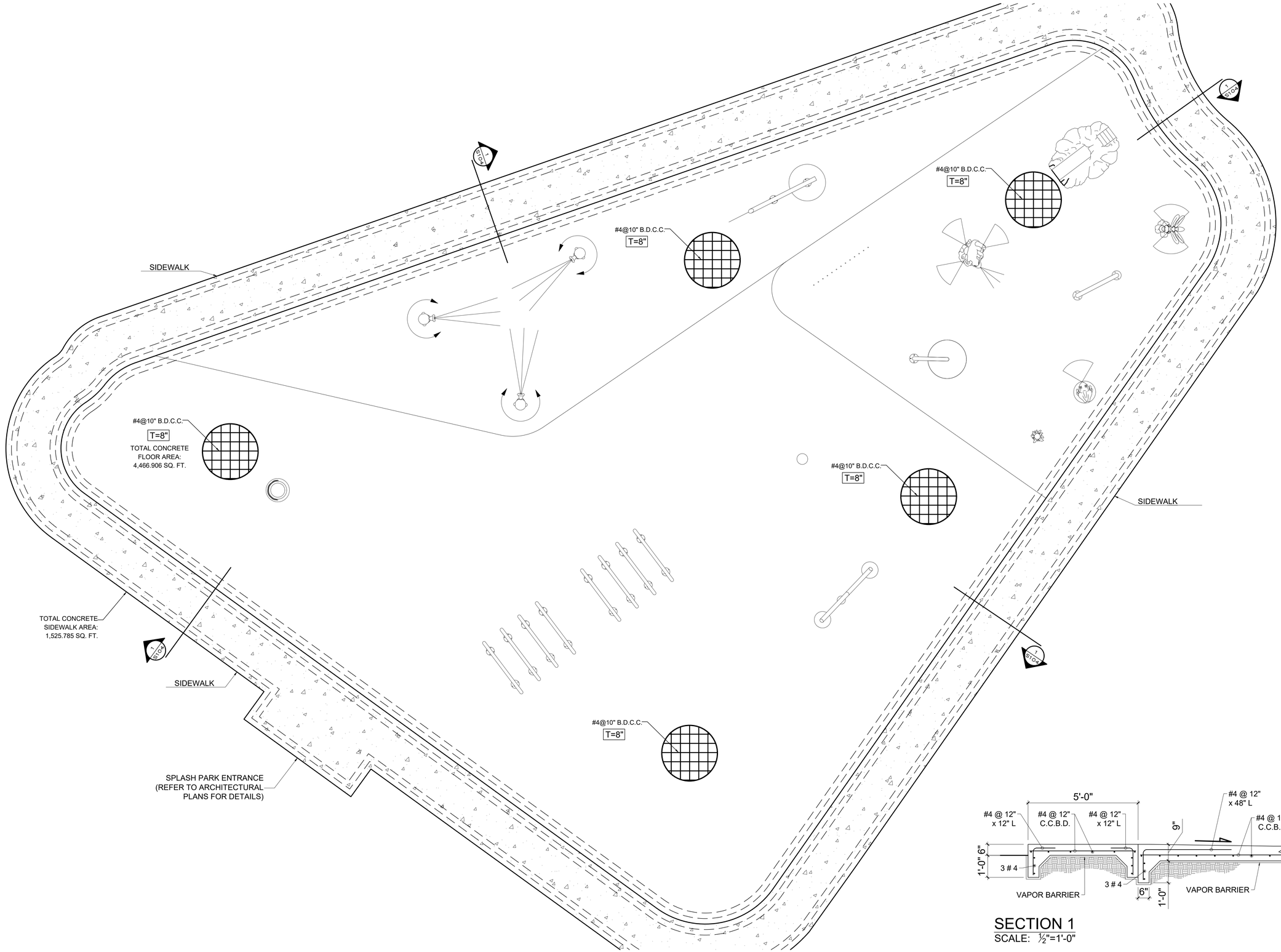
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquín
Adjuntas, Puerto Rico

DRAWING NAME

PLAYGROUND AREA STRUCTURAL PLAN

SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-103**	SHEET NO. 50 of 68



SECTION 1
SCALE: ½"=1'-0"

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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PR-CRP-001035

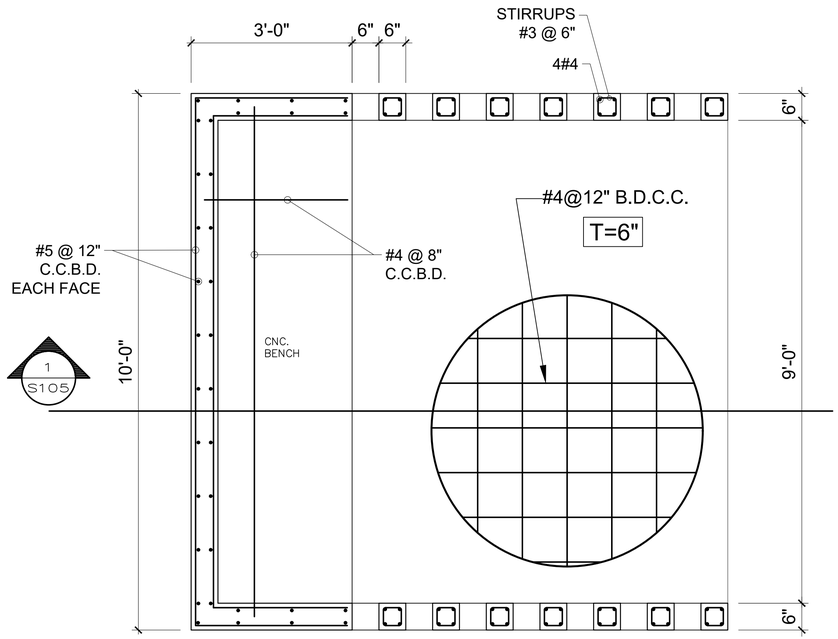
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

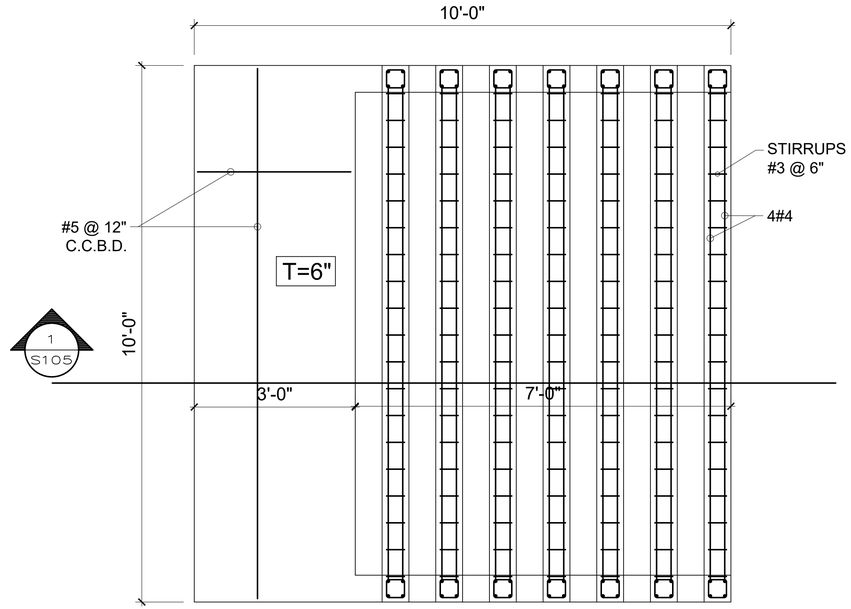
SPLASH PARK AREA STRUCTURAL PLAN

SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-104**	SHEET NO. 51 of 68



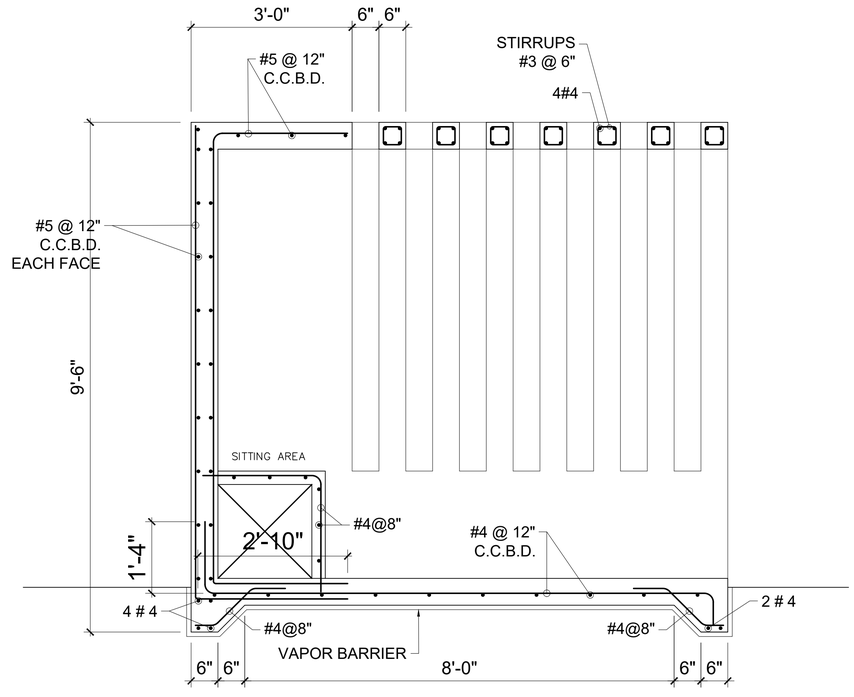
FOUNDATION DETAIL (FLOOR PLAN)

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



STRUCTURAL PLAN

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



SECTION 1

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

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

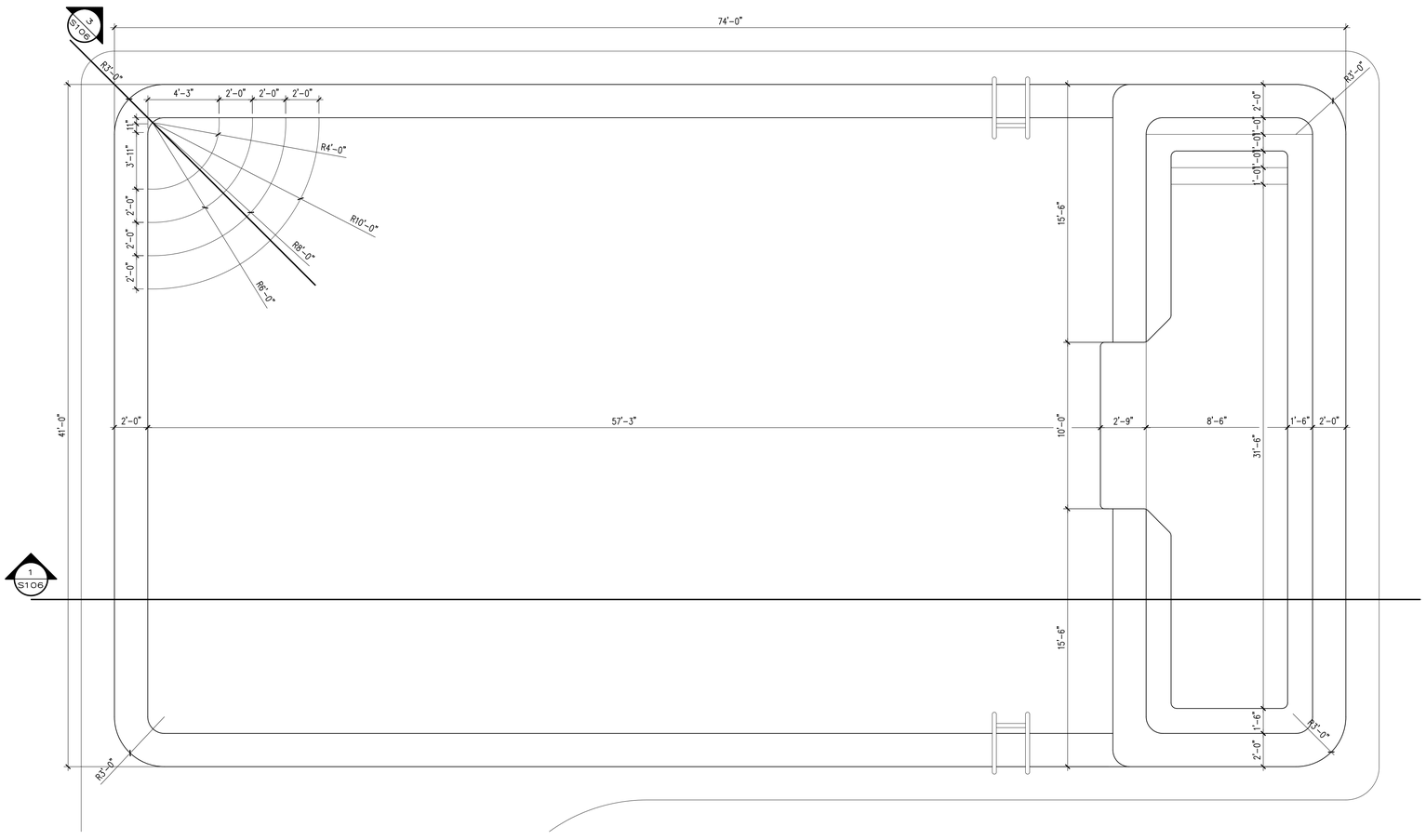
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

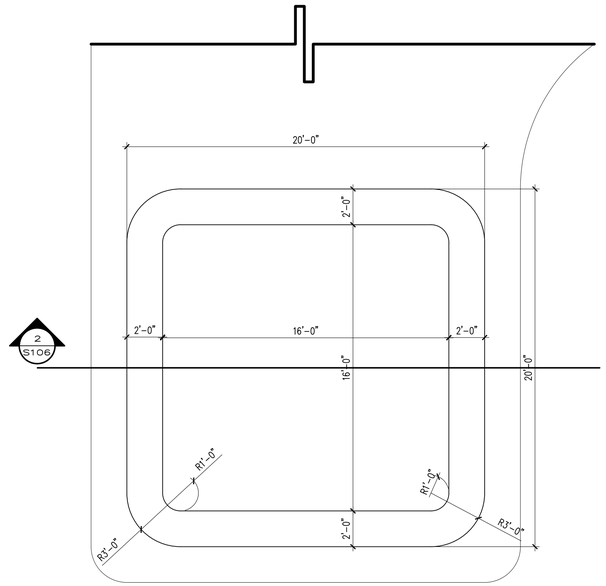
DRAWING NAME

POOL GAZEBO
STRUCTURAL PLAN

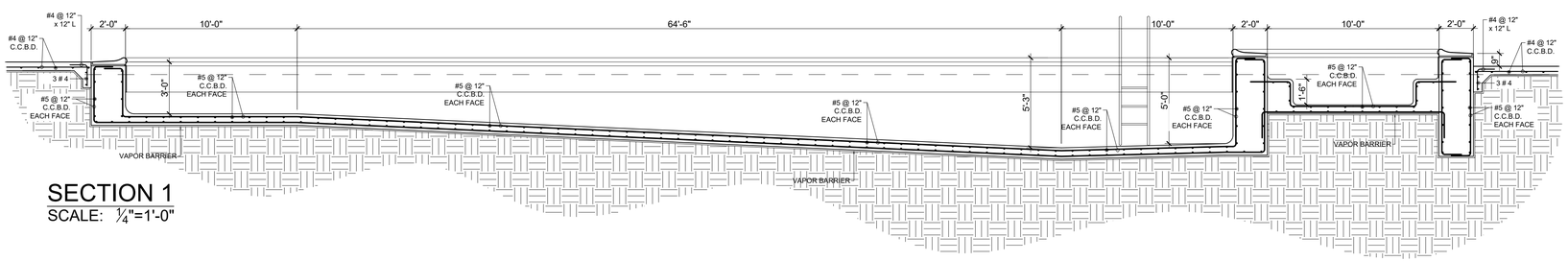
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-105**	SHEET NO. 52 of 68



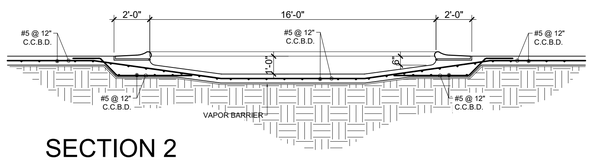
MAIN POOL PLAN
SCALE: ¼"=1'-0"



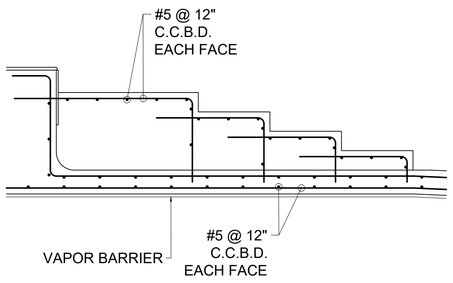
KIDS POOL PLAN
SCALE: ¼"=1'-0"



SECTION 1
SCALE: ¼"=1'-0"



SECTION 2
SCALE: ¼"=1'-0"



SECTION 3
SCALE: ½"=1'-0"

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

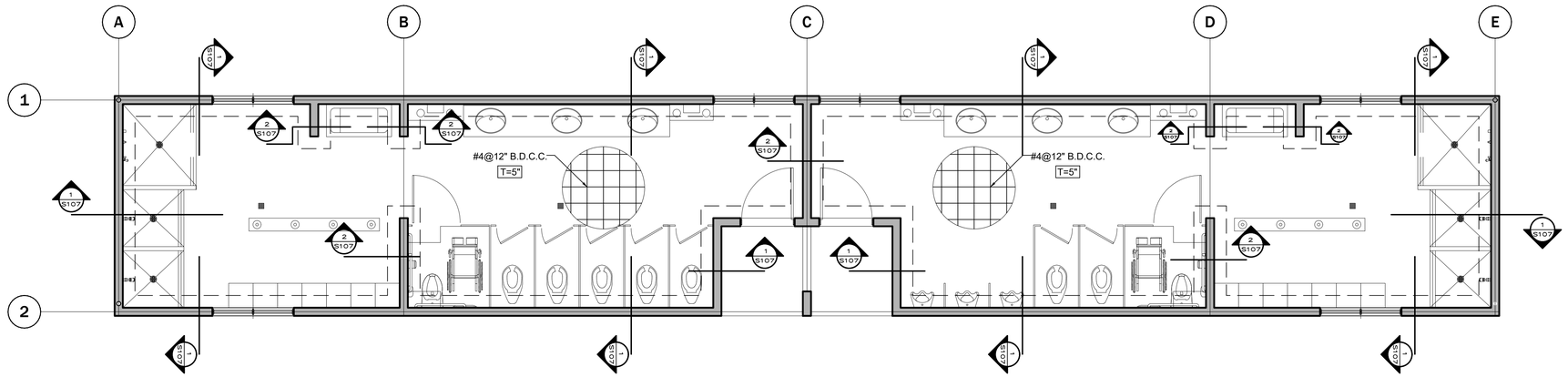
BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

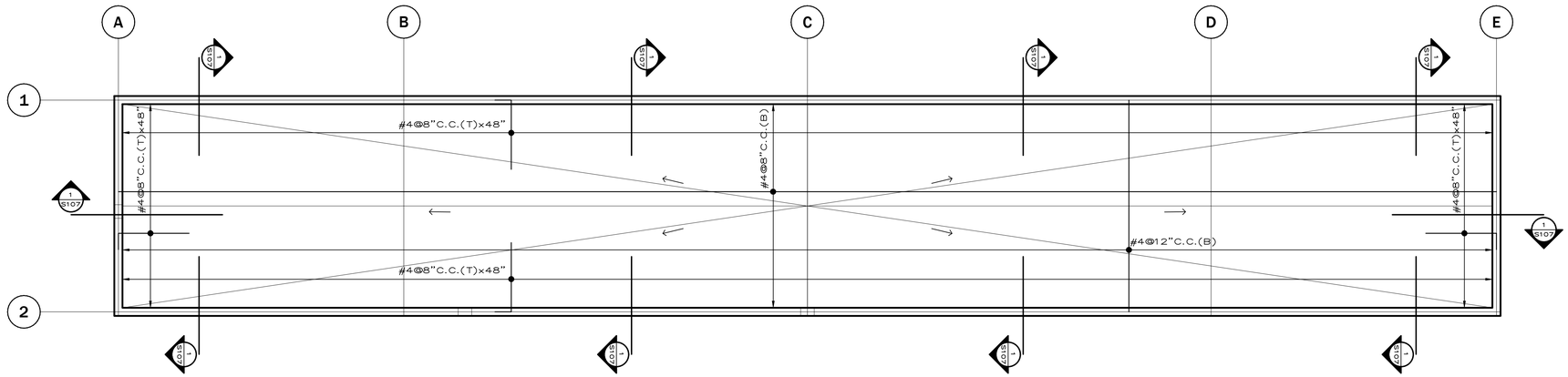
DRAWING NAME

POOL AREA STRUCTURAL PLAN

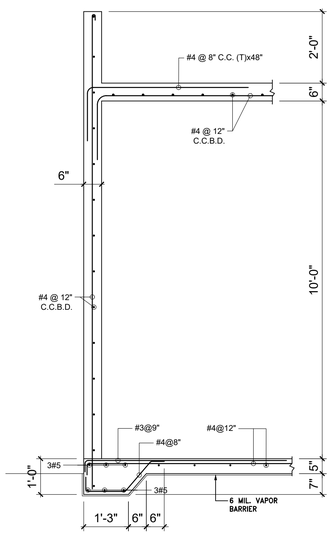
SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-106**	SHEET NO. 53 of 68



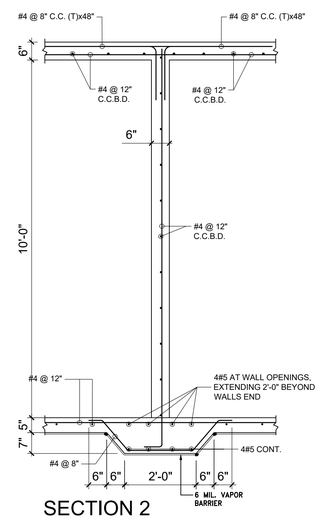
BATHROOMS FOUNDATION PLAN
SCALE: ¼"=1'-0"



BATHROOMS STRUCTURAL PLAN
SCALE: ¼"=1'-0"



SECTION 1
SCALE: ½"=1'-0"



SECTION 2
SCALE: ½"=1'-0"

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

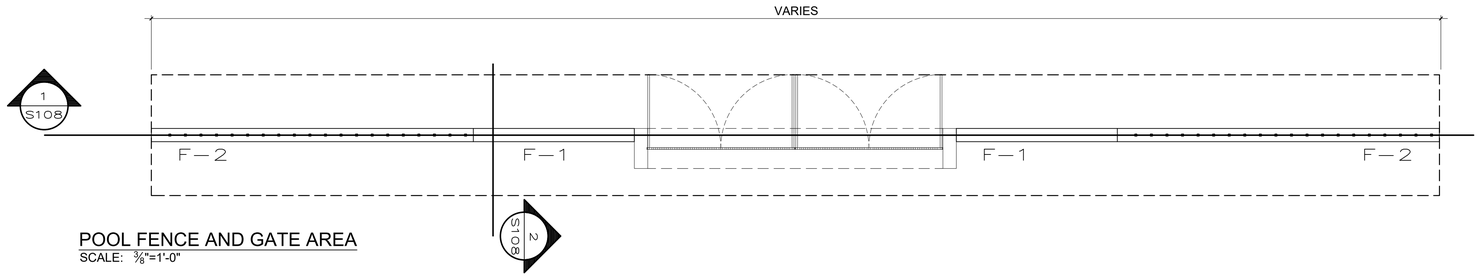
BOULEVARD LUIS MUÑOZ MARÍN

CII Joaquin
Adjuntas, Puerto Rico

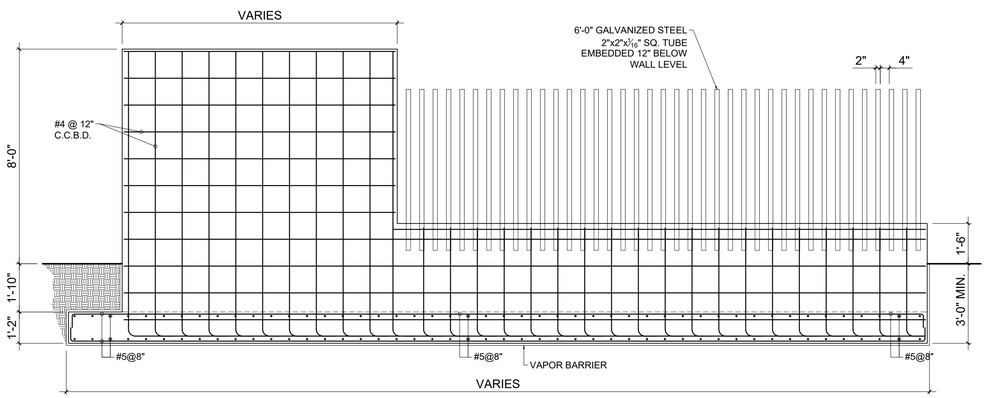
DRAWING NAME

BATHROOMS STRUCTURAL PLAN

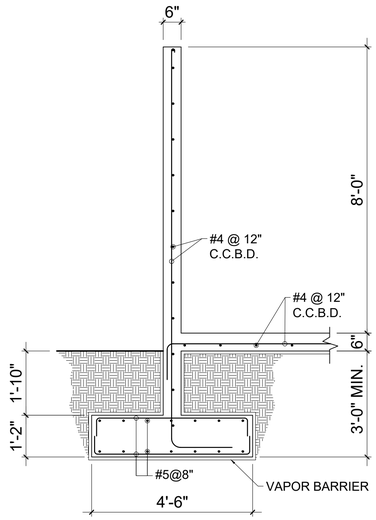
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DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-107**	SHEET NO. 54 of 68



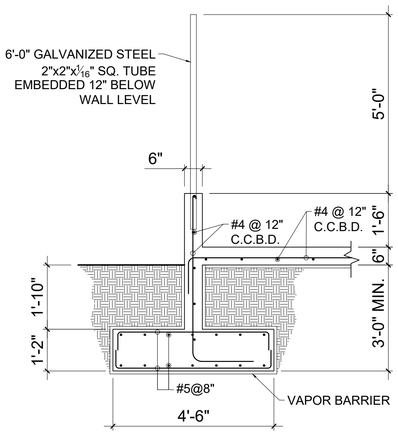
POOL FENCE AND GATE AREA
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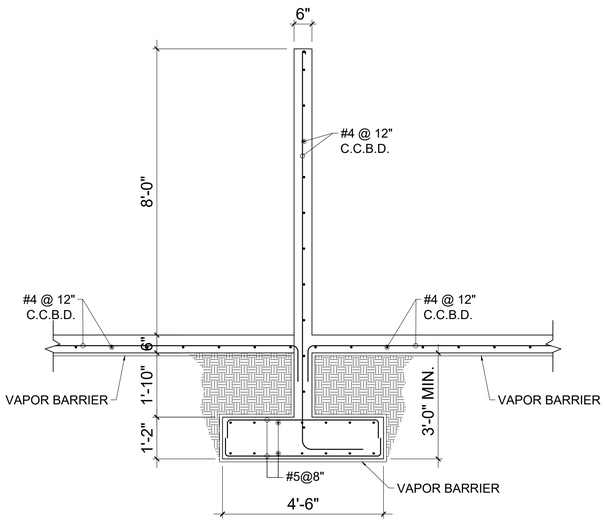
SECTION 1
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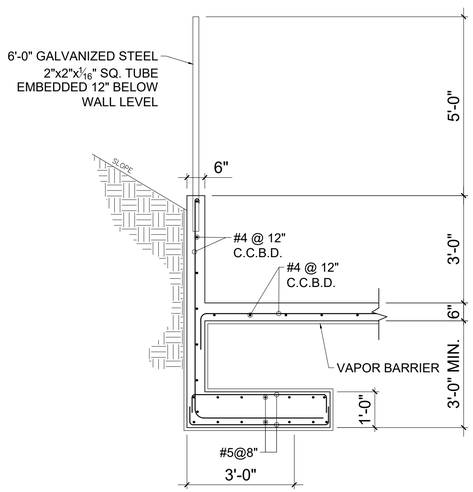
FOOTING DETAIL (F-1)
SCALE: ½"=1'-0"



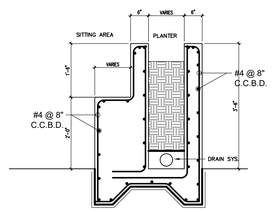
FOOTING DETAIL (F-2)
SCALE: ½"=1'-0"



SECTION 2
SCALE: ½"=1'-0"



SECTION 3 - LOW WALL DETAIL
SCALE: ½"=1'-0"



DETAIL 1 - BENCH SECTION (TYP)
SCALE: ½"=1'-0"

TGM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

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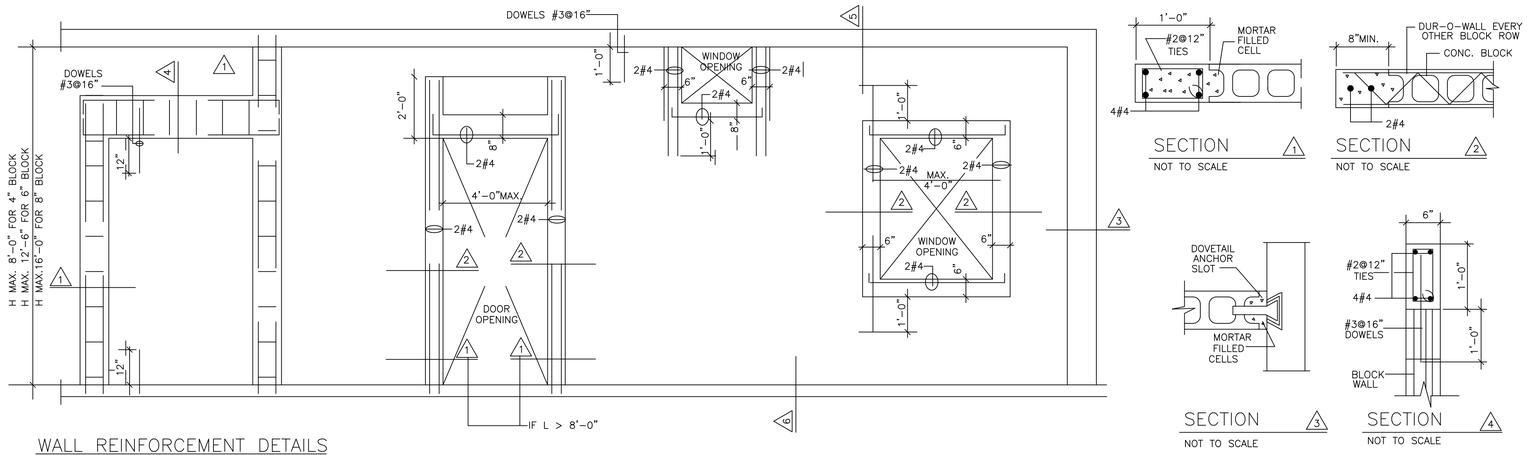
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

POOL AREA FENCE STRUCTURAL PLAN

SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **S-108**	SHEET NO. 55 of 68



WALL REINFORCEMENT DETAILS

NOT TO SCALE

SECTION 1

NOT TO SCALE

SECTION 2

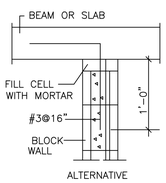
NOT TO SCALE

SECTION 3

NOT TO SCALE

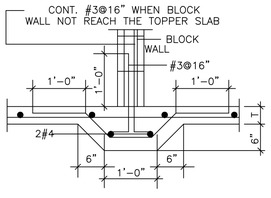
SECTION 4

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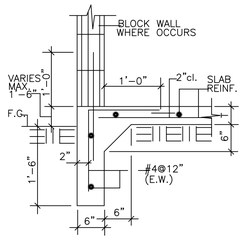
SECTION 5

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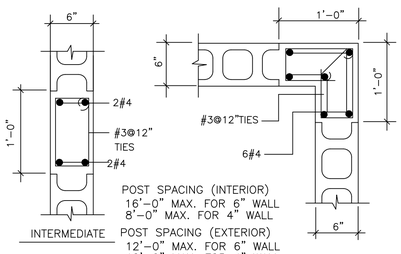
SECTION 6

NOT TO SCALE



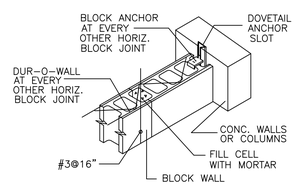
TYPICAL APRON DETAIL

N.T.S.



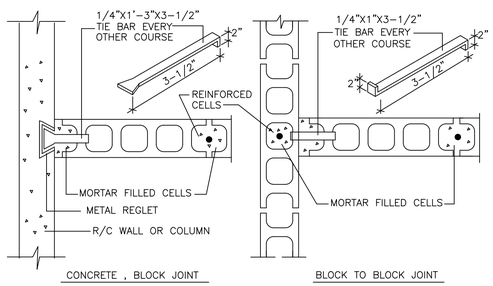
TIE COL. FOR BLOCK WALLS

NOT TO SCALE



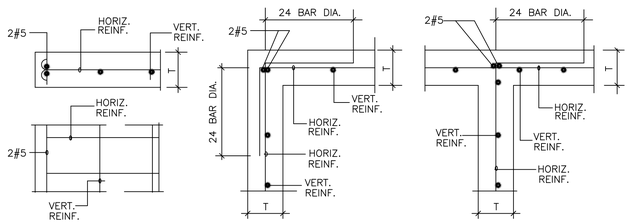
TYP. BLOCK ANCHOR DETAIL

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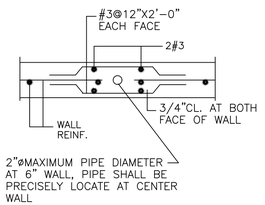
BLOCK WALLS INTERSECTION DETAIL

NOT TO SCALE



DETAILS OF CONCRETE WALLS REINFORCEMENT

NOT TO SCALE:



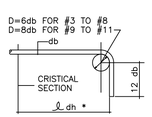
REINF. WALL DETAIL AT PIPE LOCATIONS

SC.1"=1'-0"

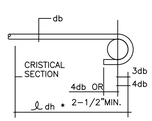
DEVELOPMENT LENGTH SPLICING

BARS SIZE	TENSION * CLASS A	COMPRESSION f'c MIN.=4,000P.S.I.
#3	14"	12"
#4	19"	15"
#5	24"	19"
#6	28.5"	22.5"
#7	33"	26.5"
#8	38"	30"
#9	43"	34"
#10	47.5"	38"

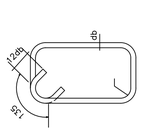
*NOTE: FOR CLASS B TENSION SPLICE MULTIPLY BY 1.3



TYP.90° HOOK



TYP.180° HOOK



TIES

STRUCTURAL NOTES

1- ALL CONCRETE WORK SHALL CONFORM TO THE ACI BUILDING CODE FOR REINFORCED CONCRETE ACI- 318-2018 LATEST EDITION

2- ALL CONCRETE SHALL DEVELOPED AT 28 DAYS A MINIMUM COMPRESSIVE STRENGTH AND SHALL CONTAIN A MAXIMUM WATER CEMENT RATIO AS SHOWN BELOW:

LOCATIONS	STRENGTH PSI	W/C
A- SLAB ON GROUND & FOOTINGS	3,000	.65
B- MAT FOUNDATION	3,500	.60
C- WALLS AND COLUMNS,	3,000	.60
D- STRUCTURAL BEAMS	4,000	.60
E- ROOF STRUCTURAL SLAB	4,000	.55

*ROOF SLAB SHALL INCLUDE A WATER REPELENT ADMIXTURE.

3- ALL CONCRETE SHALL BE TESTED AS PER ACI 318-89 FOLLOWING THE PROCEDURES IN THE ASTM C-172 AND C-39 , LATEST EDITION. IF APPROVED CURING METHOD ARE NOT FOLLOWED, FIELD CURE CYLINDER ARE REQUIRED, FOLLOWING ASTM STANDARDS. ALL TESTING SHALL BE PERFORMED UNDER THE STOPERVISION OF A CERTIFIED TESTING LABORATORY TO BE APPROVED BY THE ENGINEER.

4- CONCRETE DESIGN MIX SHALL NOT HAVE SLUMPS OVER 4 INCHES UNLESS A HRWR ADMIXTURE (STOPER PLASTICIZER) IS USED.

5- ALL CONCRETE SHALL BE CURED AS SPECIFIED IN THE STANDARD PRACTICE FOR CURING CONCRETE

6- CONCRETE SHALL NOT BE POURED UNTIL ALL STEEL REINFORCEMENT AND EMBEDDED ITEMS HAVE BEEN PROPERLY INSTALLED AND INSPECTED BY THE INSPECTOR OFFICIAL. WHEN METAL CHAIRS ARE USED, SHALL SHALL BE PLASTIC TIPPED.

7- ALL REINFORCING STEEL BARS SHALL BE DEFORMED NEW BILLET STEEL, HIGH STRENGTH AND GRADE 60, CONFORMING TO THE ASTM A-615 & ACI 2011 Fy = 60,000 PSI.

8- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185

9- CONCRETE COVER FOR STEEL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE SHOWN ON DWGS.

A-FOUNDATION		B-WALLS & SLABS	
CONCRETE CAST AGAINST EARTH	3"	INTERIOR	3/4"
CONCRETE EXPOSED TO EARTH OR WATER AFTER REMOVAL OF FORMS	2"	EXTERIOR	1"
		C-BEAMS & COLUMNS	1 1/2"

10 - SLABS AND BEAMS SHALL BE POURED MONOLITHICALLY UNLESS OTHERWISE SHOWN ON DRAWINGS.

11- NO CONDUITS OR PIPE GREATER THAN 1 1/2" IN DIAMETER WILL BE ALLOWED TO BE CAST INTO THE WALL OR SLABS WITHOUT WRITTEN APPROVAL OF THE ENGINEER.

12- FOR CHAMFERS, SURFACE FINISH, DRIP, GROOVE AND CONCRETE FORMWORKS SEE ARCHITECTURAL DWGS.

13- CONTRACTOR SHALL COORDINATE THE PLACEMENT OF THE ANCHORS, SLEEVES, OPENINGS, CONDUITS, ETC., OF VARIOUS TRADES THAT ARE EMBEDDED IN THE STRUCTURE. IN THE EVENT OF ANY INTERFERENCE BETWEEN ANY OF THESE ITEMS WITH THE STRUCTURAL ELEMENTS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE POURING ANY CONCRETE.

14- DIMENSIONS AND CONFIGURATION OF ALL STRUCTURAL ELEMENT SHALL BE COORDINATE WITH THE ARCHITECTURAL DRAWING BY THE CONTRACTOR AND IN THE EVENT OF ANY DISCREPANCIES IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.

15- THE CONSTRUCTION PROCEDURES: FORMWORK REMOVAL AND THE LOCATION OF THE CONSTRUCTION JOINTS SHALL BE SUCH AS NOT TO CAUSE ANY DETRIMENTAL EFFECT TO THE STRUCTURE OR TO REDUCE THE DESIGN STRENGTH.

16- ALL ONE WAY SLAB SHALL HAVE TEMPERATURE REINFORCEMENT AS FOLLOWS BUT NOT LESS THAN A STEEL AREA OF .002 X GROSS AREA OF CONCRETE

A- 5" SLAB #3@10" B- 6" SLAB #3@9"

17- DOWELS SHALL BE SAME SIZE AND NUMBER AS WALL OR COLUMN VERTICAL REINFORCEMENT. EMBEDDED MINIMUM 24 BAR DIAMETER INTO THE FOOTING, FOR #6 BAR OR GREATER, EXTENDED REINFORCEMENT TO REST ABOVE BOTTOM OF FOOTING REINFORCEMENT PROVIDING A STANDARD 90 DEGREE HOOK AT THE END. EXTEND REINFORCEMENT A SPLICE LENGTH ,MIN. 30 BAR DIAMETER, INTO THE WALL OR COLUMN.

18- PROVISION FOR DETAILS NOT SPECIFICALLY DRAWN SHALL BE MADE BY THE CONTRACTOR IN ACCORDANCE WITH THE ACI 318-89 AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 318-11.

19- ALL BEAM REINFORCEMENT SHALL END IN STANDARD HOOKS AS PER ACI 318-11 UNLESS OTHERWISE SHOWN ON DRAWINGS.

20- ALL SLAB ON GROUND UNLESS SHOWN ON DRAWINGS SHALL BE 4" THICK REINFORCED WITH #3@14" EACH WAY. PROVIDE CONSTRUCTION JOINTS AT A MAXIMUM SPACING OF 20 FT. IN BOTH DIRECTION ,AND A CONTROL JOINTS BETWEEN THEM.

21- ALL OPENING IN CONCRETE WALLS SHALL BE REINFORCED IN THE PERIMETER WITH 2#4 BARS PLACED 2" FROM THE FACE OF THE WALL AND EXTENDING 2'-0" BEYOND CORNERS.

22- UNLESS SHOWN ON DRAWINGS ALL STEEL REINFORCEMENT IS MKD. CONTINUOUS AND SHALL BE SPLICED AT LAP POINTS. LAP POINT FOR TOP REINFORCEMENT OF BEAM SHOULD OCCUR IN THE MID-THIRD OF THE SPAN WITH A SPLICE LENGTH OF 30db LAP POINT FOR BOTTOM REINFORCEMENT SHOULD OCCUR AT A DISTANCE LESS THAN 1/4 OF THE SPAN BUT NOT GREATER THAN 1/6 OF THE SPAN FROM THE ADJACENT JOINTS.

23- UNLESS OTHERWISE SHOWN ON DRAWINGS ALL 5" THICK CONCRETE WALLS SHALL BE REINFORCED WITH #3@9"& 6" WALL WITH #4@12"IN EACH DIRECTION, 2#4 SHALL BE PLACED AT 2"FROM THE END OF THE WALL. MIMIMUM REINFORCEMENT FOR WALLS SHALL BE .0025 OF THE GROSS CROSS SECTIONAL AREA.

24- FORMWORK FOR FLEXURAL ELEMENTS SHALL INCLUDE THE CAMBER SHOWN ON DRAWINGS IN ADDITION TO THAT REQUIRED BY THE FORMWORK DEFLECTION DUE THE STRUCTURE WEIGHT.

25- NO DEFECTIVE CONCRETE SHALL BE CORRECTED USING MORTAR OR PLASTER. SUCH DEFECT SHALL BE INSPECTED BY THE STRUCTURAL ENGINEER FOR APPROPRIATE REPAIR PROCEDURE RECOMMENDATIONS.

26- ALL BLOCK WALLS SHALL BE ANCHORED TO THE STRUCTURE , TOP AND BOTTOM, BY MEANS OF DOWELS #3 @ 16" EMBEDDED 6" INTO THE STRUCTURE AND 12" INTO THE BLOCK. BLOCK WALLS SHALL BE FIXED LATERALLY TO WALLS AND COLUMNS BY DOVETAIL ANCHORS.

27- ALL BLOCK WALLS SHALL HAVE A MINIMUM HORIZONTAL REINFORCEMENT OF DUR-O-WALL TRUSS TYPE GAGE 9 EVERY OTHER COURSE AND PROPERLY ANCHORED TO THE BOUNDARY ELEMENTS.

28- ALL REINFORCED BLOCK CELL SHALL BE FILLED WITH MORTAR TYPE S OR M. FIRST HALF CELL AGAINST WALLS OR COLUMN SHALL BE FILLED WITH MORTAR. MINIMUM COMPRESSIVE STRENGTH OF BLOCK SHALL BE 1,500 PSI (F'm).

29- CONTRACTOR SHALL PROVIDE ADEQUATE SHORING TO THE STRUCTURE DURING CONSTRUCTION AND SHALL NOT CREATE ANY OVERLOAD SITUATION OVER IT DUE THE HORIZONTAL MOMENT OF ANY HEAVY EQUIPMENT AND THE STORAGE OF THE CONSTRUCTION MATERIALS.

30- IN CASE OF DOUBT IN THE INTERPRETATION OF ANY ASPECT OF THESE STRUCTURAL DRAWINGS AND OR THE SPECIFICATIONS ,THE DESIGNER SHALL BE CONSULTED.

31- CONTRACTOR SHALL SUBMIT SHOP DRAWING SHOWING STEEL REINFORCEMENT AS REQUIRED IN THE TECHNICAL SPECIFICATIONS.

32- THE STRUCTURAL ANALYSIS AND DESIGN IS IN ACCORDANCE WITH THE LATERAL LOADS ESTABLISHED IN THE P.R. BUILDING CODE AMENDED IN 2018.

33- DESIGN LIVE LOADS ARE AS FOLLOW:

LOCATION	LIVE LOAD
A) ROOF	40 PSF.

34- FOUNDATIONS HAS BEEN DESING FOR A SOIL BEARING PRESSURE OF Fb= 2,000 PSF.

35- CONTRACTOR IS RESPONSIBLE OF VERIFYING THE FOUNDATION DESING PARAMETER WITH A GEOTHECNICAL INVESTIGATION PREPARE BY A CERTIFIED P.R. ENGINEER. ANY DIACREPANCY BETWEEN THE DESING PARAMETER AND THE SUBSOIL REPORT SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER. NO CONSTRUCTION WORK SHALL BE PERFORM PRIOR THE REALIZATION OF THE GEOTHECNICAL INVESTIGATION.

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

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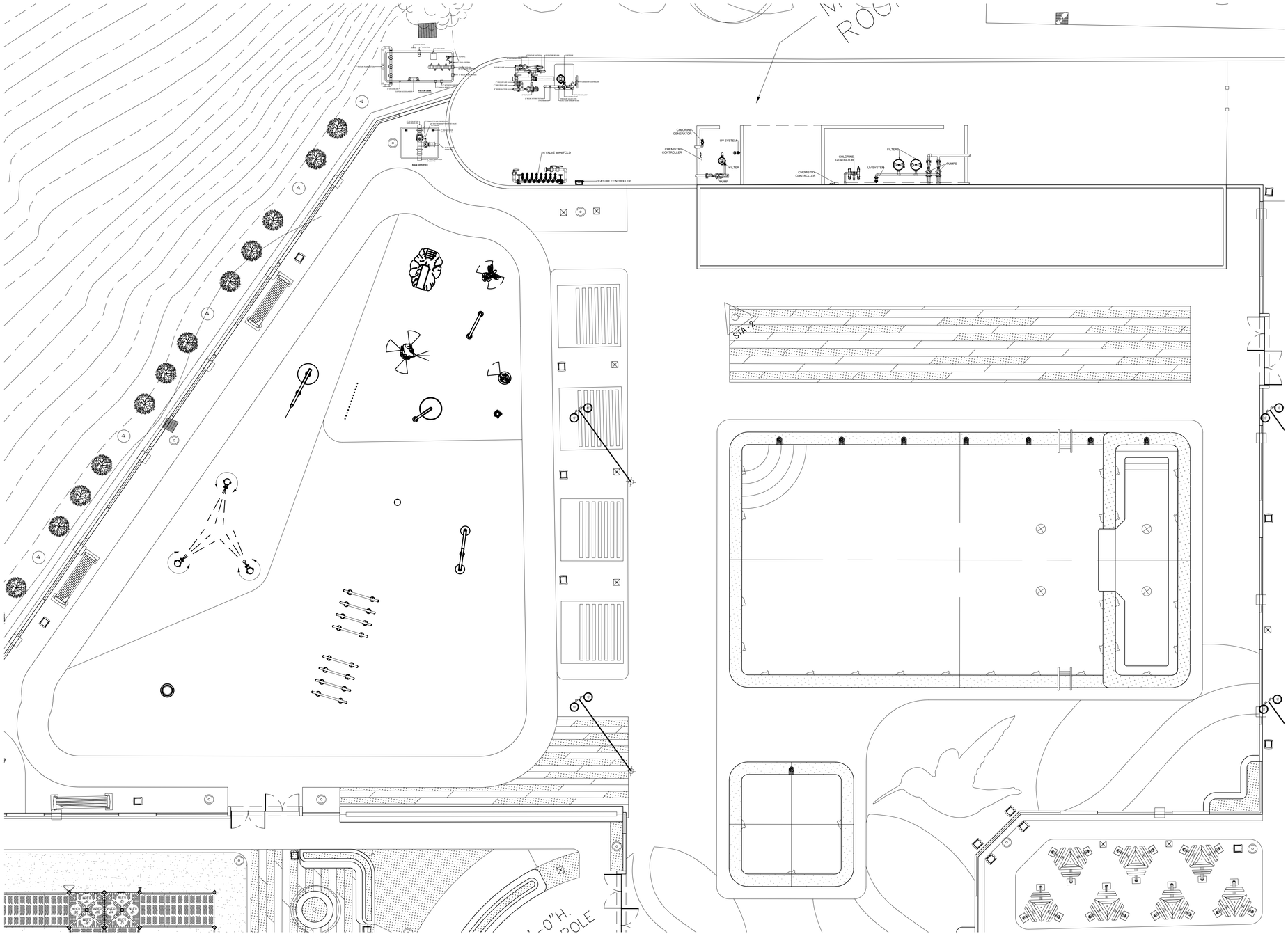
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

STRUCTURAL NOTES

SCALE:	BIDDEN DATE:
AS SHOWN	JAN. 2024
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
S-109	56 of 68



GENERAL MECHANICAL PLAN

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

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16072

CONSULTANTS

NOTE

Yo, Jose Rullan, Licencia No.16072, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

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PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

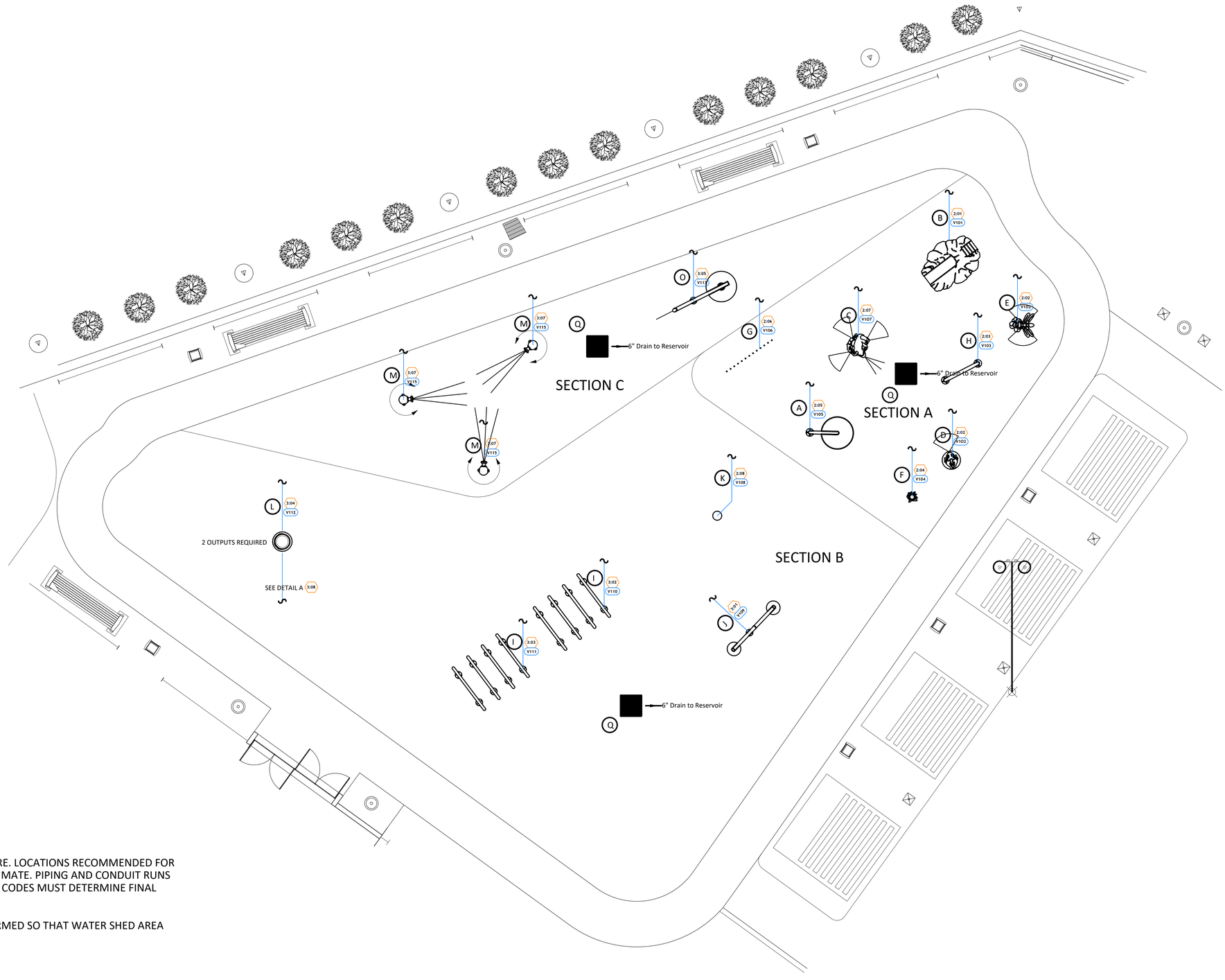
GENERAL MECHANICAL LAYOUT

SCALE: 1/8"=1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Eva Belgodere, AIAS	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. **M-101**	SHEET NO. 57 of 68

	REF.	ITEM	FEATURE DESCRIPTION	QTY
SECTION A - 87 GPM	A	W128C	FLOWER SHOWER 10-20 GPM @ 6 PSI	1
	B	F1119	MINI MOUNTAIN AQUA SLIDE - SMALL 8 GPM @ 3 PSI	1
	C	F2043	LAZY LIZARD AQUA SPRAYER 30 GPM @ 4 PSI	1
	D	F3005	LINDSEY LADYBUG AQUA SPOUT 3 GPM @ 3 PSI	1
	E	F3025	DELILAH DRAGONFLY AQUA SPOUT 8 GPM @ 4 PSI	1
	F	F3020	SUNFLOWER AQUA SPOUT 1 GPM @ 15 PSI	1
	G	W058-2	WATER FENCE 4' HIGH 12 GPM @ 3 PSI	1
	H	W001C	WATER WAY 5 GPM @ 3 PSI	1
SECTION B - 315 GPM	I	W238	WATER RINGS (QTY 4 RINGS) 40 GPM @ 10 PSI	2
	J	W356	DEW BUCKETS 5-15 GPM @ 6 PSI	1
	K	W138	CRYSTAL DOME 180-200 GPM @ 6 PSI	1
	L	W186-LC	TIDAL BARREL FILL SUPPLY #1 8-20 GPM @ 7 PSI EFFECT SUPPLY #2 CITY WATER .5 GPM @ 30 PS	1
SECTION C - 98 GPM	M	C020(-45 -90-135 -180-360)	SINGLE BIT 6' THROW 6 GPM @ 3 PSI	3
	N	C014	BIG BRELLA 40 GPM @ 6 PSI	1
	O	C015	ZEN SHOWER 40 GPM @ 6 PSI	1
	P	W009	TOUCH N' GO HARD-WIRED	3
	Q	WMM-600	MAINTENANCE MIN. 125 GPM FLOW RATE EA	4

TOTAL GPM: 500 GPM
SPLASH PAD AREA: 6,070 SQ. FT

THERE WILL BE A DEDICATED CITY WATER LINE PIPED TO THE TIDAL BARREL FOR THE DUMP ACTION. DETAILS TO BE SHOWN ON PIPING.



GENERAL NOTES:

1. THIS DRAWING IS DIAGRAMMATIC IN NATURE. LOCATIONS RECOMMENDED FOR PLAY COMPONENTS AND DRAINS ARE APPROXIMATE. PIPING AND CONDUIT RUNS ARE SCHEMATIC. JOB CONDITIONS AND LOCAL CODES MUST DETERMINE FINAL ROUTING.

2. WET DECK AREA MUST BE POURED AND FORMED SO THAT WATER SHED AREA SLOPES TOWARD DRAINS.

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

NOTE

Yo, Jose M. Rullan, Licencia No.16,072, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

SPLASH ZONE PLAN VIEW

SCALE: 3/16" = 1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Ariel I. Morales Pabon	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. M-102	SHEET NO. 58 of 68

FEATURE CONTROL SCHEDULE										
REF.	VALVE	VALVE SIZE	FEATURE PN	FEATURE DESCRIPTION	QTY	PIPE SIZE	GPM	PSI	OUTPUT CHANNEL	ACTIVATOR
B	101	1" std	F1119	MINI MOUNTAIN	1	1"	8	3	2:01	W009 #1
E	102	1" std	F3025	DELILAH DRAGONFLY	1	1"	8	4	2:02	
D			F3005	LINDSEY LADYBUG	1		3	3		
H	103	1" std	W001C	WATER WAY	1	1"	5	3	2:03	
F	104	1" std	F3020	SUNFLOWER	1	1"	1	15	2:04	
A	105	1" std	W128C	FLOWER SHOWER	1	1"	20	6	2:05	
G	106	1" std	W058-2	WATER FENCE	1	1"	12	3	2:06	
C	107	1-1/2" std	F2043	LAZY LIZARD	1	1-1/2"	30	4	2:07	
K	108	2" std	W138	CRYSTAL DOME	1	2"	200	6	2:08	W009 #2
J	109	1" std	W356	DEW BUCKETS	1	1"	15	6	3:01	
I	110	1-1/2" std	W238	WATER RINGS (4)	1	1-1/2"	40	10	3:02	
I	111	1-1/2" std	W238	WATER RINGS (4)	1	1-1/2"	40	10	3:03	
L	112	1" std	W186-LC	TIDAL BARREL	1	1"	20	7	3:04	
O	113	1-1/2" std	C015	ZEN SHOWER	1	1-1/2"	40	6	3:05	W009 #3
N	114	1-1/2" std	C014	BIG BRELLA	1	1-1/2"	40	6	3:06	
M	115	1" std	C020	SINGLE BIT	3	1"	18	3	3:07	
MDA	116	-	-	-	-	-	-	-	3:08	
	TOTAL FLOW						500			

EQUIPMENT CONTROL SCHEDULE			
REF.	PRODUCT PN	PRODUCT DESCRIPTION	QTY
P	W009	TOUCH N' GO HARD WIRED	3
Q	WMM-600	MAINTENANCE MIN. 125 GPM FLOW RATE EA	4
R	PRV	PRESSURE REDUCING VALVE	1
S	DM-04000-16-BR-WM	DISTRIBUTION MANIFOLD 4" - BRONZE VALVES - WALL MOUNT	1
T	DSC-8-16	SEQUENCING CONTROLLER	1

ACTIVATOR CONTROL SCHEDULE				
REF.	#	FROM (INPUT CHANNEL)	TO	OUTPUT CHANNEL
P	011	1:01	W009 #1	3 (3/4" CONDUIT)
P	012	1:02	W009 #2	3 (3/4" CONDUIT)
P	013	1:03	W009 #3	3 (3/4" CONDUIT)

GENERAL NOTES:

1. THIS DRAWING IS SCHEMATIC IN NATURE. LOCATIONS RECOMMENDED FOR PLAY COMPONENTS AND DRAINS ARE APPROXIMATE. PIPING AND CONDUIT RUNS ARE SCHEMATIC.
2. CHECK LOCAL CODES FOR PIPING REQUIREMENTS. JOB CONDITIONS AND LOCAL CODES MUST DETERMINE FINAL ROUTING.
3. REFER TO THE INSTALLATION DRAWING OF EACH PLAY FEATURE AND EQUIPMENT VAULT OR UTILITY BOX FOR SPECIFIC INSTALLATION DETAILS.
4. PIPING, CONDUIT, AND WIRE ARE BY INSTALLER.
5. ANY REQUIRED BACKFLOW DEVICE OR WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER.
6. PIPE SIZES ASSUME 100' MAXIMUM RUNS. LONGER RUNS MUST BE EVALUATED BY WATER ODYSSEY. CONTRACTOR RESPONSIBLE FOR VERIFICATION
OF PIPE SIZE BETWEEN DISCHARGE MANIFOLD AND FEATURES. VELOCITY NOT TO EXCEED 8FT/SECOND.
7. A MAXIMUM OF 50 PSI @ PROVIDED MANIFOLD.
8. SYMBOL "*" INDICATES THAT THE TEE MUST BE PLACED IN THE CENTER OF THE PIPING RUN TO ENSURE BALANCED FLOW.
9. WET DECK AREA MUST BE POURED AND FORMED SO THAT WATER SHED AREA SLOPES TOWARD DRAINS.
10. ALL PIPING TO FEATURES ARE RECOMMENDED TO HAVE 1%-2% SLOPE FOR WINTERIZATION.

ELECTRICAL NOTES
1. REFER TO ELECTRICAL SCHEMATICS AND PROGRAMMING SHEET FOR WIRING CONNECTIONS TO BE MADE TO TAGGED SOLENOID VALVE ASSEMBLIES"

EQUIPMENT ROOM NOTES
1. LOCATION AND ORIENTATION OF EQUIPMENT ROOM AND EQUIPMENT BY OTHERS. SEE NOTE #6.
2. LOCATION OF COMPONENTS INSIDE ENCLOSURE MAY DIFFER FROM THIS LAYOUT.

PLAY SCENARIO ZONES	
ACTIVATOR LABEL	011
ACTIVATOR LOCATION	**W009** TOUCH N' GO HARD WIRED
MANIFOLD VALVE ASSEMBLY LABEL	V101 THRU V107

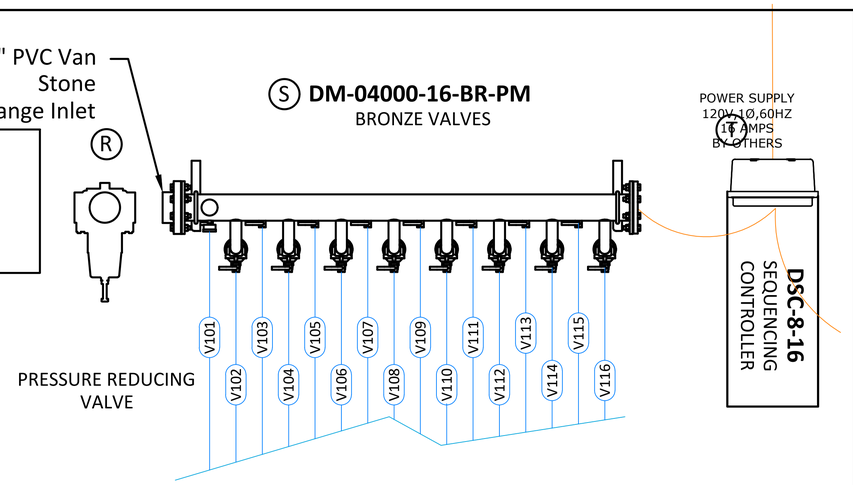
PROGRAM SPECIFIED ON OPERATING SCHEDULE

PLAY SCENARIO ZONES	
ACTIVATOR LABEL	013
ACTIVATOR LOCATION	**W009** TOUCH N' GO HARD WIRED
MANIFOLD VALVE ASSEMBLY LABEL	V113 THRU V116

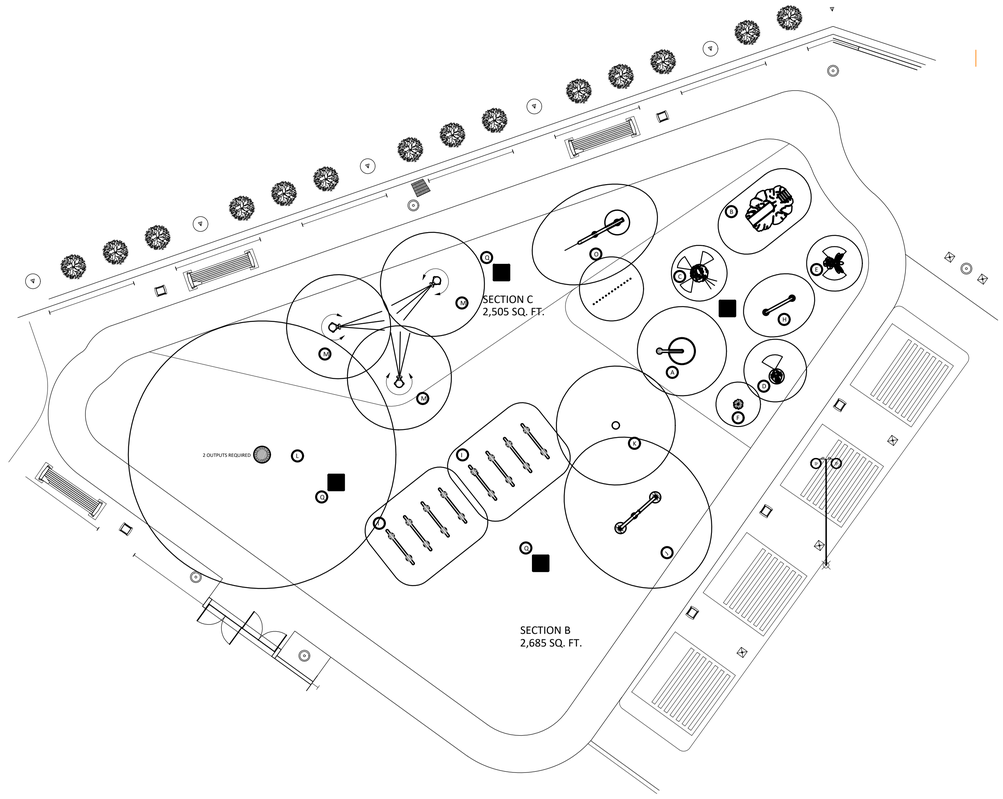
PROGRAM SPECIFIED ON OPERATING SCHEDULE

PLAY SCENARIO ZONES	
ACTIVATOR LABEL	012
ACTIVATOR LOCATION	**W009** TOUCH N' GO HARD WIRED
MANIFOLD VALVE ASSEMBLY LABEL	V108 THRU V112

PROGRAM SPECIFIED ON OPERATING SCHEDULE



SCALE: NTS



APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

NOTE

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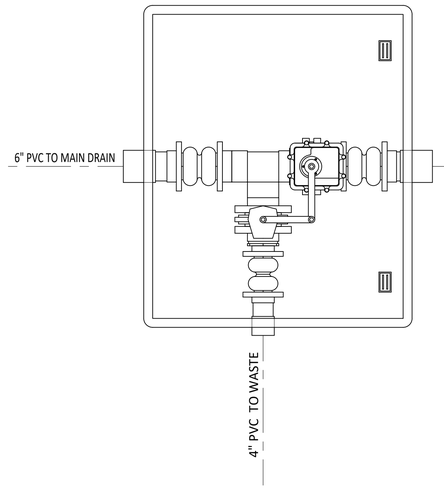
CERTIFICATION

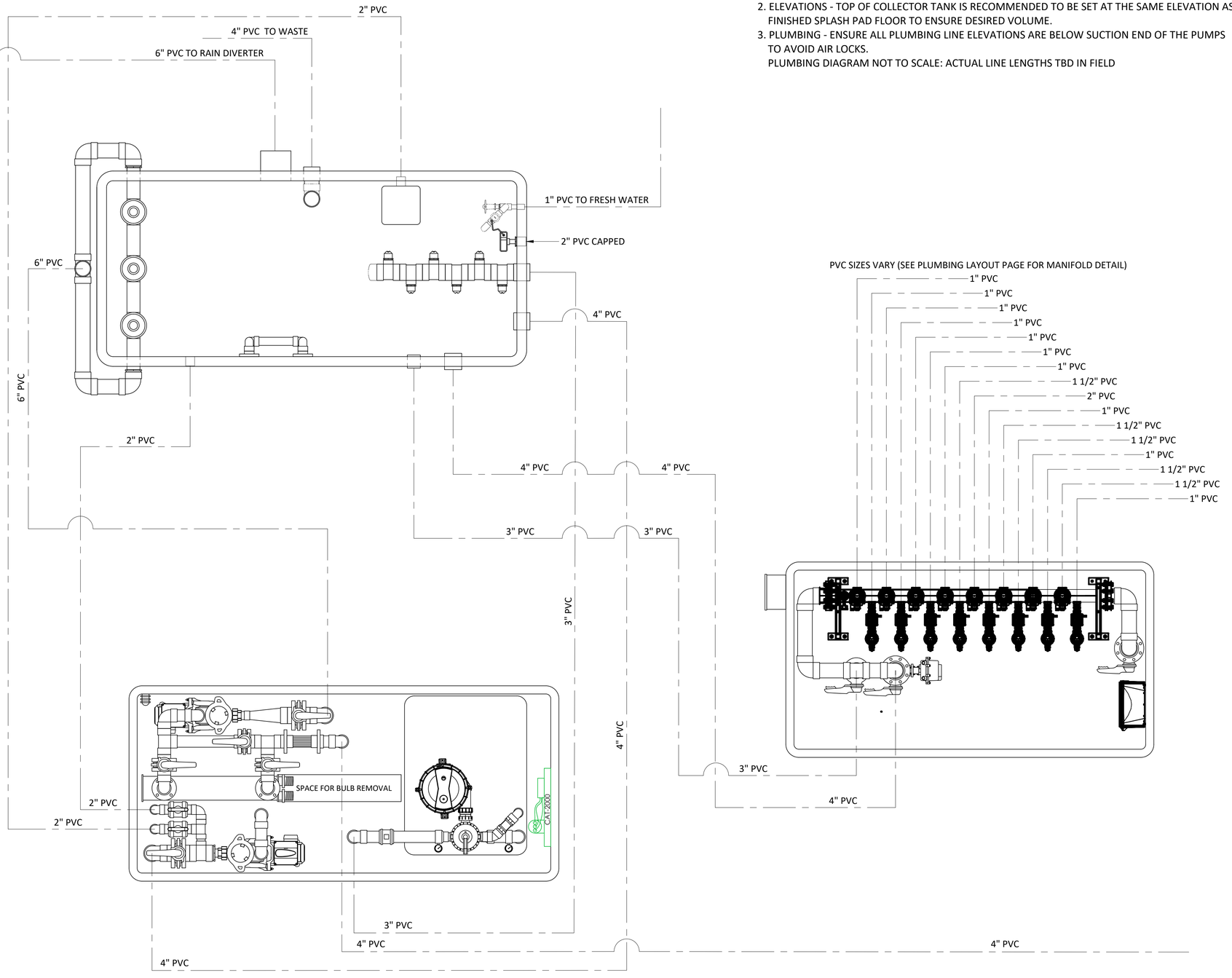
Working Drawings For:
PR-CRP-001035
BOULEVARD LUIS MUÑOZ MARÍN
Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

SPLASH ZONE FEATURE SCHEDULE

SCALE: 3/16" = 1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Ariel I. Morales Pabon	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. **M-103**	SHEET NO. 59 of 68





NOTES:

1. COLLECTOR TANK - MAIN DRAIN SHOULD SLOPE CONTINUOUSLY TO COLLECTOR TANK.
   MAIN DRAIN PIPING SHOULD NOT EXCEED 100' FROM PAD TO COLLECTOR TANK.
   TANK SHOULD BE NO FURTHER THAN 30 FEET FROM PUMPING EQUIPMENT.
2. ELEVATIONS - TOP OF COLLECTOR TANK IS RECOMMENDED TO BE SET AT THE SAME ELEVATION AS FINISHED SPLASH PAD FLOOR TO ENSURE DESIRED VOLUME.
3. PLUMBING - ENSURE ALL PLUMBING LINE ELEVATIONS ARE BELOW SUCTION END OF THE PUMPS TO AVOID AIR LOCKS.
   PLUMBING DIAGRAM NOT TO SCALE: ACTUAL LINE LENGTHS TBD IN FIELD

PVC SIZES VARY (SEE PLUMBING LAYOUT PAGE FOR MANIFOLD DETAIL)

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

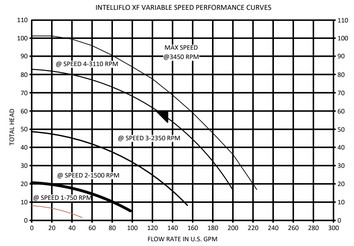
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

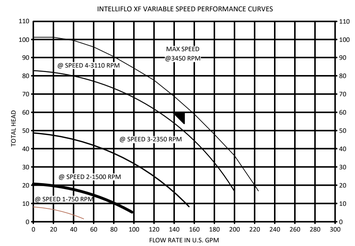
DRAWING NAME

SPLASH PAD EQUIPMENT PLUMBING DIAGRAM

SCALE: 3/4" = 1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Ariel I. Morales Pabon	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. **M-104**	SHEET NO. 60 of 68



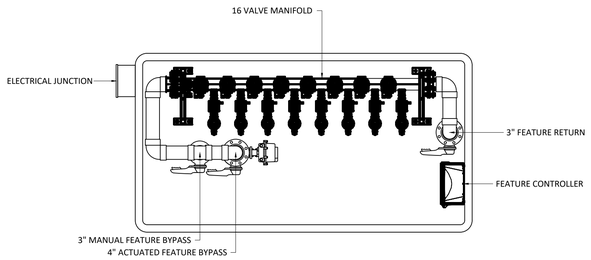
RECIRCULATION PUMP CURVE



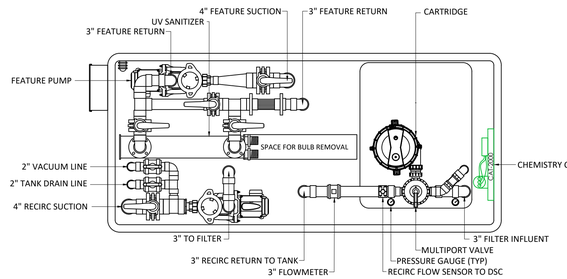
FEATURE PUMP CURVE

FEATURE/RECIRC EQUIPMENT

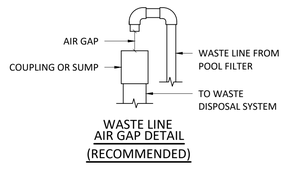
FILTER EQUIPMENT LIST	
FEATURE PUMP	PENTAIR, INTELLIFLO XF VS 023056, 3 HP WITH INTEGRAL BASKET STRAINER, 150 GPM @ 60' TDH, 230V, 1Ø, 16.0A
RECIRC PUMP	PENTAIR, INTELLIFLO XF VS 023056, 3 HP WITH INTEGRAL BASKET STRAINER, 135 GPM @ 60' TDH, 230V, 1Ø, 16.0A
COLLECTOR TANK	AT2000, 2000 GALLON CAPACITY
WATER LEVEL CONTROL	HYDRAULIC VALVE W/ MANUAL FILL VALVE, RESERVOIR
CHLORINE GENERATOR	PENTAIR, Ichlor30
VACUUM GAUGE	WIKA, 0-30 IN HG, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	PENTAR INTELLICHEM, 522621
FILTER (RECIRC)	CLEAN & CLEAN, CCRP 150
IWF CONTROLLER	WATER ODYSSEY FEATURE CONTROLLER, DSC-8-16A
RECIRC FLOWMETER	3" BLUE-WHITE, F-30300, 45-240 GPM RANGE
UV SANITIZER	PENTAIR BIOSHIELD
FEATURE MANIFOLD	WATER ODYSSEY, WMF-8 MANIFOLD: ACTUATED FEATURE RETURNS SIZE VARIES, 4" ACTUATED BYPASS, 3" MANUAL BYPASS
MULTIPORT VALVE	PENTAIR 261050 HI FLOW
SIGHT-GLASS	HAYWARD SP1074S
RECIRC FLOW SENSOR	SIGNET, 3" PADDLE FLOW SENSOR, N80



FEATURE MANIFOLD
COMPONENT ID

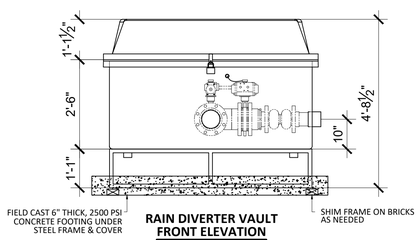


EQUIPMENT COMPONENTS ID
PLAN VIEW

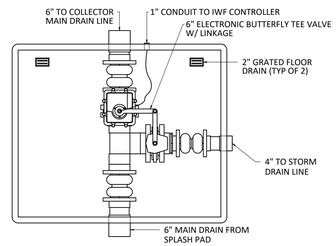


WASTE LINE
AIR GAP DETAIL
(RECOMMENDED)

PIPE AND VALVES CHART	
LINE FUNCTION	SIZE
MAIN DRAIN	6"
TANK DRAIN	2"
VACUUM LINE	2"
RECIRCULATION PUMP SUCTION	4"
RECIRCULATION PUMP DISCHARGE	3"
RECIRC TO FILTER	3"
RECIRC RETURN	3"
SIGHTGLASS TO WASTE	2.5"
FEATURE PUMP SUCTION	4"
FEATURE DISCHARGE TO MANIFOLD	3"



RAIN DIVERTER VAULT
FRONT ELEVATION



RAIN DIVERTER COMPONENT ID
PLAN VIEW

PIPE AND VALVES CHART	
LINE FUNCTION	SIZE
MAIN DRAIN TO RAIN DIVERTER	6"
MAIN DRAIN TO COLLECTOR	6"
MAIN DRAIN TO STORM	4"
FLOOR DRAIN (2)	2"

IWF FILTER TANK EQUIPMENT LIST	
RAIN DIVERTER	WATER ODYSSEY, RAIN DIVERTER SYSTEM
ELECTRIC VALVES	VALWORX, ELECTRIC BUTTERFLY TEE VALVE, 24VDC/VAC

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

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CERTIFICATION

Working Drawings For:

PR-CRP-001035

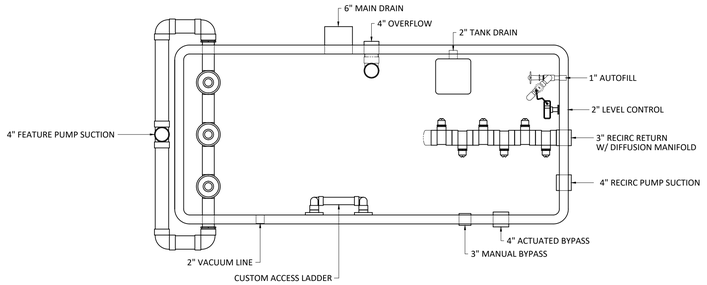
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

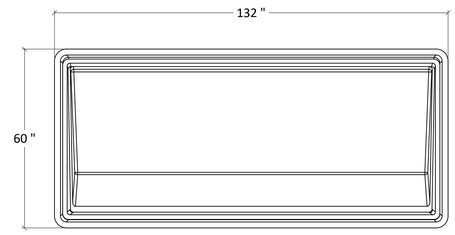
SPLASH ZONE RECIRC + FEATURE DETAIL

SCALE:	BIDDEN DATE:
1/2" = 1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Ariel I. Morales Pabon	Jose M. Rullan Caparros, PE
DRAWING NO.	SHEET NO.
M-105	61 of 68



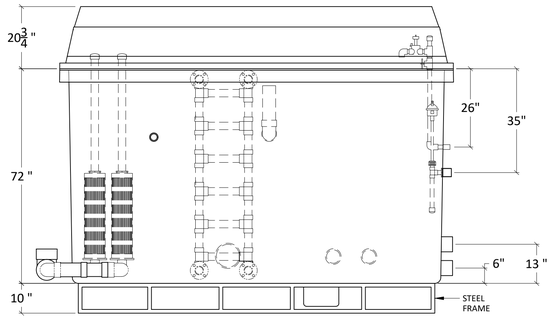
COMPONENT ID

FILTER TANK



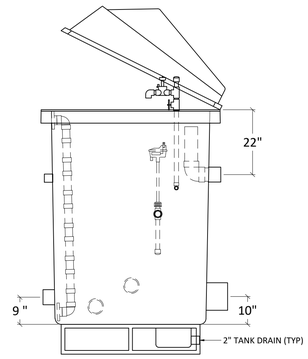
PLAN VIEW

FILTER TANK



FRONT ELEVATION

FILTER TANK



SIDE ELEVATION

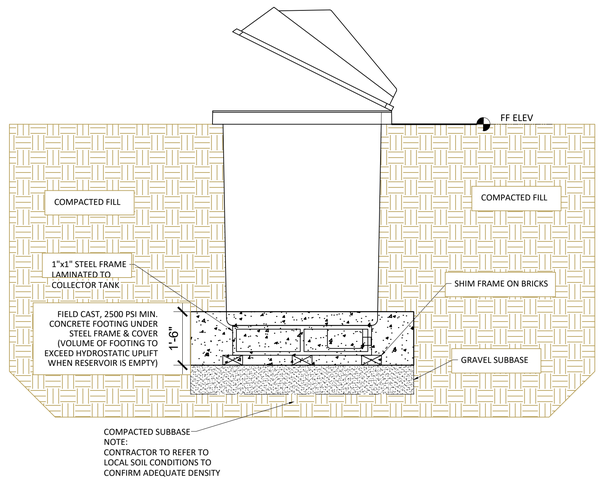
FILTER TANK

NOTES:

1. PLUMBING - ALL PIPE & FITTINGS SHALL BE SCHEDULE 40 PVC PER ASTM D1785 AND N.S.F. APPROVED AND STAMPED FOR POTABLE WATER APPLICATIONS. JOINTS TO BE SOLVENT WELDED PER ASTM D2855. ALL PLUMBING AND MATERIALS TO CONFORM TO FLORIDA BUILDING CODE 2020 - SEVENTH EDITION. PR BUILDING CODE 2018.
2. ELECTRICAL - ALL ELECTRICAL EQUIPMENT WIRING, INSTALLATION AND GROUNDING OF POOL COMPONENTS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOC. 70, NATIONAL ELECTRICAL CODE (N.E.C.) LATEST EDITION AND ALL APPLICABLE LOCAL CODES. CHEMICAL FEED PUMPS TO BE INTERLOCKED WITH THE RECIRCULATION PUMP.
3. EQUIPMENT - ALL PUMPS, FILTERS AND DISINFECTION EQUIPMENT SHALL BE TESTED AND APPROVED BY THE PERTINENT MANUFACTURER USING THE NSF/ANSI STANDARD 50 AND LISTED AS APPROVED BY THE NSF.
4. THE FILTER ROOM FLOOR IS SLIP RESISTANT AND SLOPED TO FLOOR DRAINS
5. ALL PLASTIC PIPING SUBJECT TO PROLONGED SUNLIGHT EXPOSURE MUST BE COATED TO PROTECT IT FROM ULTRAVIOLET LIGHT DEGRADATION.
6. EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP. WASTE LINES FROM DIFFERENT SOURCES (E.G. POOL, SPA, OVERFLOW, SUMP PUMP) SHALL NOT BE TIED TOGETHER BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE.
7. THE WASTE LINE MUST BE CONNECTED TO AN APPROVED WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
8. ALL COLLECTOR TANKS SHALL HAVE COVED INTERSECTIONS AND SLOPE TO THE TANK DRAIN.
9. AN AUTOMATIC AND MANUAL WATER MAKEUP CONTROL MUST BE PROVIDED TO MAINTAIN THE WATER LEVEL AT THE LIP OF THE OVERFLOW GUTTER OR AT THE MOUTH OF THE RECESSED AUTOMATIC SKIMMERS AND MUST DISCHARGE THROUGH AN AIR GAP INTO A FILL PIPE OR COLLECTOR TANK. OVER THE RIM FILL SPOUTS ARE PROHIBITED.
10. A RATE OF FLOW INDICATOR, READING IN GPM, SHALL BE INSTALLED ON THE FILTER RETURN LINE. THE RATE OF FLOW INDICATOR SHALL BE PROPERLY SIZED FOR THE DESIGN FLOW RATE AND SHALL BE CAPABLE OF MEASURING FROM ONE HALF TO AT LEAST ONE-AND-ONE-HALF TIMES THE DESIGN FLOW RATE. THE CLEARANCES UPSTREAM AND DOWNSTREAM FROM THE RATE OF FLOW INDICATOR SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION SPECIFICATIONS.
11. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2020 - SEVENTH EDITION

PIPE AND VALVES CHART	
LINE FUNCTION	SIZE
MAIN DRAIN	6"
FRESH WATER FILL	1" (MIN)
STATIC LINE	2"
OVERFLOW	4"
RECIRCULATION PUMP SUCTION	4"
RECIRCULATION RETURN	3"
FEATURE PUMP SUCTION	6"
TANK DRAIN	2"
VACUUM LINE	2"
ACTUATED FEATURE BYPASS	4"
MANUAL FEATURE BYPASS	3"

IWF FILTER TANK EQUIPMENT LIST	
COLLECTOR TANK	AT2000, 2000 GALLON CAPACITY
FILTER ELEMENT (FEATURE)	(3) UNICELL C-7697, 155 SQ FT FILTER AREA EACH (174 GPM MAX)
WATER LEVEL CONTROL	HYDRAULIC VALVE W/ MANUAL FILL VALVE, RESERVOIR
ACCESS HATCHWAY	FULL SIZE FIBERGLASS LOCKABLE HATCHWAY W/ HYDRAULIC ASSIST



MOUNTING DETAIL

(RECOMMENCED)

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

NOTE

Yo, Jose M. Rullan, Licencia No.16,072, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

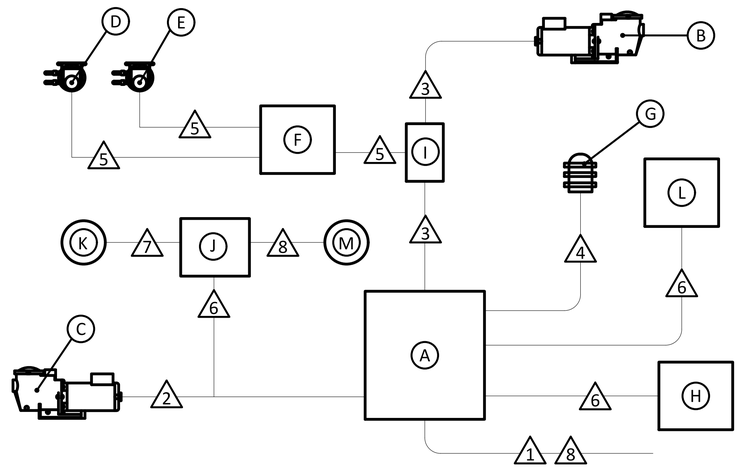
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

SPLASH ZONE
COLLECTOR TANK
RESERVOIR

SCALE:	BIDDEN DATE:
1/2" = 1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Ariel I. Morales Pabon	Jose M. Rullan Caparros, PE
DRAWING NO.	SHEET NO.
M-106	62 of 68



FIXTURE SCHEDULE:

MARK	DESCRIPTION	VOLTAGE	MANUFACTURER & MODEL NO.
A	MAIN LUG BREAKER PANEL (16 CIRCUIT)	208-230	SIEMENS, PW1624L1125CU
B	RECIRCULATION PUMP	230V	PENTAIR, INTELLIFLO XF VS 023056, 3 HP
C	FEATURE PUMP	230V	PENTAIR, INTELLIFLO XF VS 023056, 3 HP
D	CHLORINE FEEDER PUMP	115V	STENNER 45M5
E	ACID FEEDER PUMP	115V	STENNER, 45M2
F	CHEMICAL CONTROLLER	115V	HAYWARD CAT 2000
G	100 WATT SERVICE LIGHT FIXTURE	115V	INTERMATIC, VPXG11GCI 100W
H	GFCI DUPLEX RECEPTACLE	115V	PASS & SEYMOUR
I	ELECTRICAL INTERLOCK	115/208-230V	MCG, 40A DEFINITE PURPOSE CONTACTOR
J	FEATURE CONTROLLER	115/208-230V	WATER ODYSSEY FEATURE CONTROLLER
K	ACTIVATION BOLLARD	12/24/115V	WATER ODYSSEY FEATURE ACTIVATOR
L	UV SANITIZER	115-120V	CHLORKING, SAG240, 115V
M	LIGHTING CONTROLLER (OPTIONAL)	12-120V	WATER ODYSSEY LED LIGHTING CONTROLLER

FEEDER & CIRCUIT SCHEDULE:

MARK	CONDUCTORS PHASE	NEUTRAL	GROUND	CONDUIT	REMARKS
1					PANEL FEED
2	2 -#10		1 - #10	1/2"	UL SEALTITE
3	2 -#10		1 - #10	1/2"	UL SEALTITE
4	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
5	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
6	1 -#12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
7	2 -#18	1 - #18	1 - #18	1/2"	SEALTITE TO PANEL
8	UP TO 64 - #12			2"	SEALTITE TO PANEL
9	CONDUCTORS AND CONDUIT INSTALLED BY OTHERS				

PANEL SCHEDULE:

SINGLE-PHASE, 3-WIRE — 208Y/120 VAC OR 240 VAC INSULATED/BONDABLE NEUTRAL CURRENT WITHSTAND RATING MAX. RMS. SYM. 10,000A 12/240V

CIRCUIT	POLE	TRIP	LOAD	AMPS
1-2	2	30A GFI	REC. PUMP W/INTERLOCKED CHEMICALS	19.4
3-4	2	30A GFI	FEATURE PUMP	16.0
5	1	20A	GFCI	3.0
6	1	20A	SERVICE LIGHT	1.5
7	1	20A	FEATURE CONTROLLER	1.1
8	1	20A	UV SANITIZER	2.4
9-16			SPARE	
			TOTAL MAXIMUM LOAD	43.4

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16,072

CONSULTANTS

NOTE

Yo, Jose M. Rullan, Licencia No.16,072, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIPe.

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PR-CRP-001035

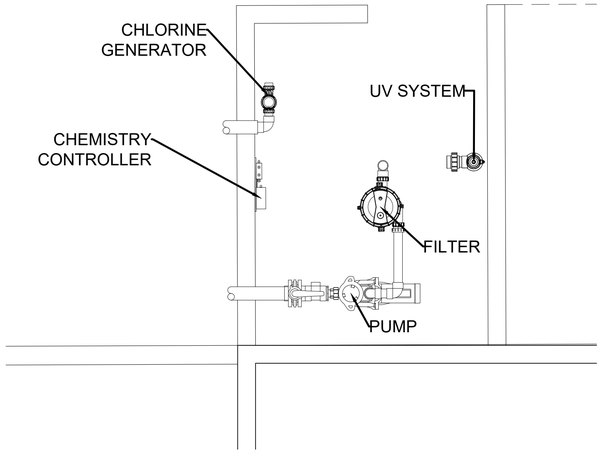
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

ELECTRICAL RISER DIAGRAM

SCALE:	BIDDEN DATE:
3/4" = 1'-0"	OCT. 2023
DRAWN BY:	CHECKED BY:
Ariel I. Morales Pabon	Jose M. Rullan Caparros, PE
DRAWING NO.	SHEET NO.
M-107	63 of 68

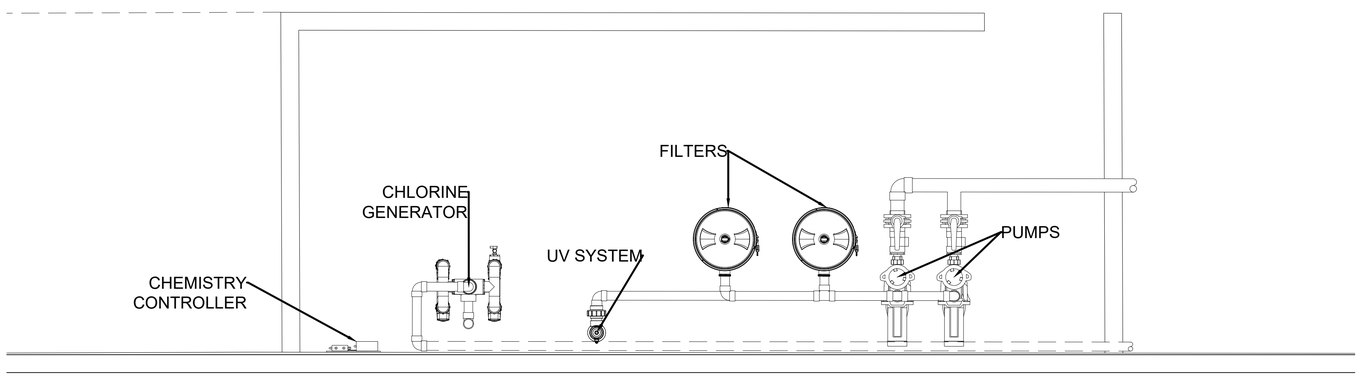


KIDS POOL MECHANICAL PLAN

SCALE: 1/2" =1'-0"

KIDS RECIRC EQUIPMENT

FILTER EQUIPMENT LIST	
PUMP	PENTAIR, INTELLIFLO 3, 1 1/2 HP WITH INTEGRAL BASKET STRAINER, 30 GPM @ 60' TDH, 230V, 1Ø, 16.0A
CHLORINE GENERATOR	PENTAIR, Iclhor30
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	PENTAR INTELLICHEM, 522621
FILTER	CLEAN & CLEAN, CCR 150
RECIRC FLOWMETER	3" BLUE-WHITE, F-30300, 45-240 GPM RANGE
UV SANITIZER	PENTAIR BIOSHIELD, 522636
HEAT PUMP	PENTAIR, ULTRATEMP 140



MAIN POOL MECHANICAL PLAN

SCALE: 1/2" =1'-0"

MAIN RECIRC EQUIPMENT

FILTER EQUIPMENT LIST	
PUMP	PENTAIR, INTELLIFLO 3, 3 HP WITH INTEGRAL BASKET, 2 UNITS STRAINER, 187 GPM @ 60' TDH, 230V, 1Ø, 16.0A
CHLORINE GENERATOR	PENTAIR, COMSYS 16, 520977
PRESSURE GAUGE	WIKA, 0-60 PSI, LIQUID FILLED, 1/4" NPT, 2" FACE DIAMETER
CHEMISTRY CONTROLLER	PENTAR INTELLICHEM, 521357
FILTER	PENTAIR FULFLOW, 620 SQ FT, 2 UNITS
RECIRC FLOWMETER	3" BLUE-WHITE, F-30300, 45-240 GPM RANGE
UV SANITIZER	PENTAIR BIOSHIELD, 522636, 2 UNITS
HEAT PUMP	PENTAIR, ULTRATEMP 140, 6 UNITS

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16072

CONSULTANTS

NOTE

Yo, Jose Rullan, Licencia No.16072, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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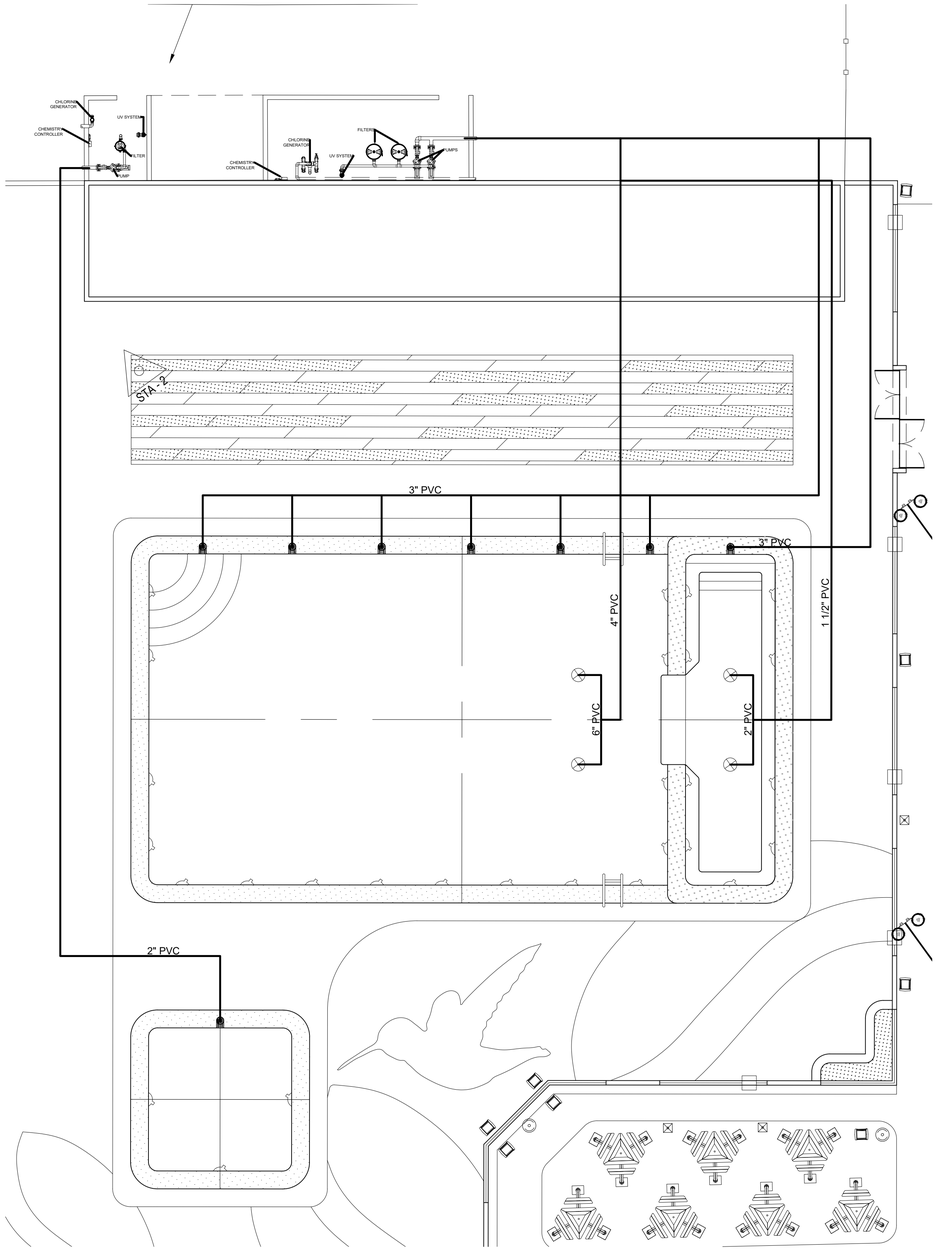
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

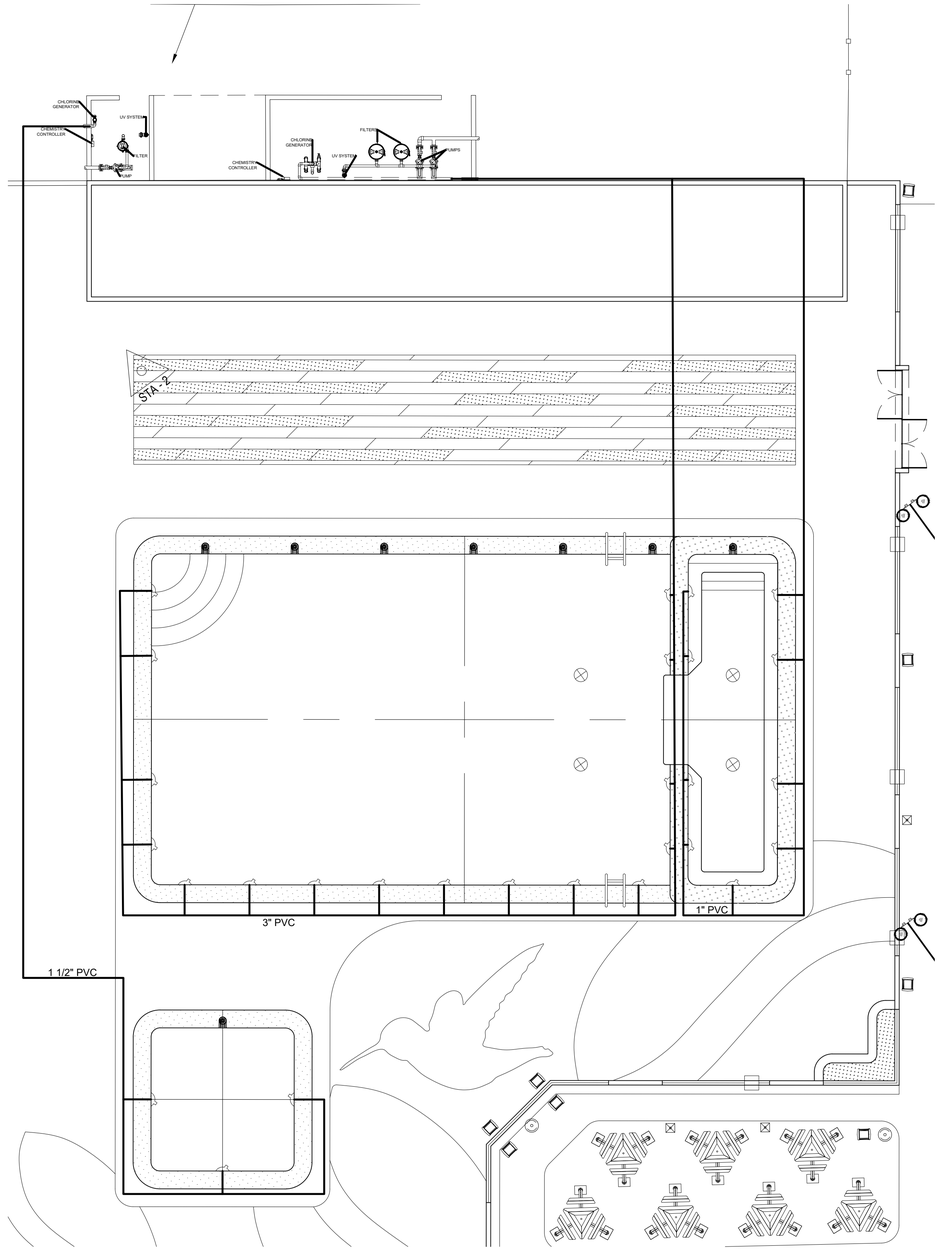
POOLS
MECHANICAL LAYOUT

SCALE: 1/2"=1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Eva Belgodere, AIAS	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. M-108	SHEET NO. 64 of 68



POOLS MAIN DRAINS AND SKIMMERS

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



POOLS RETURN NOZZLES

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

TCM

APPROVED BY

Jose M. Rullan Caparros, PE
Lic. No. 16072

CONSULTANTS

NOTE

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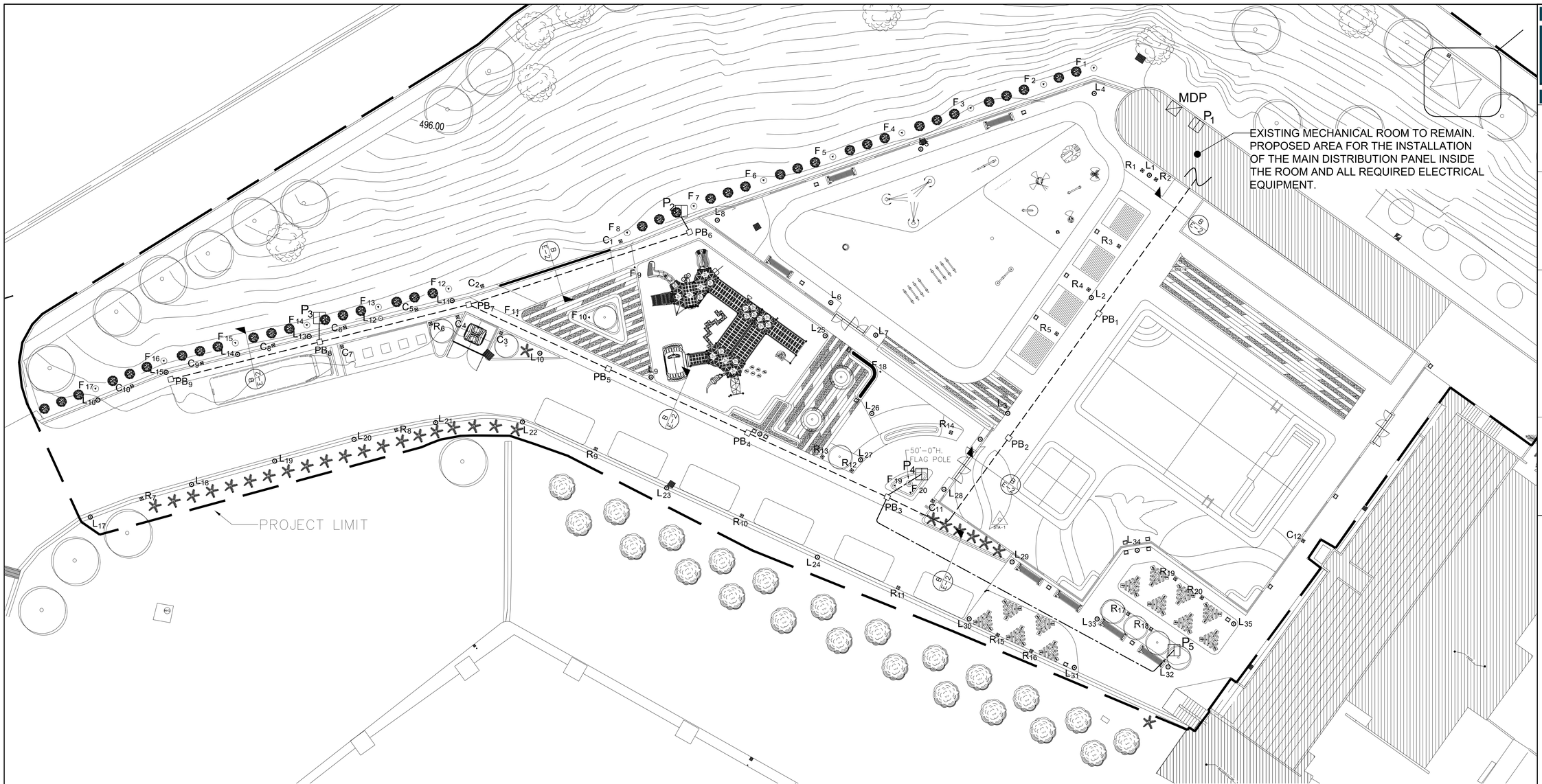
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

POOLS PLUMBLING DIAGRAM

SCALE: 1/8"=1'-0"	BIDDEN DATE: OCT. 2023
DRAWN BY: Eva Belgodere, AIAS	CHECKED BY: Jose M. Rullan Caparros, PE
DRAWING NO. **M-109**	SHEET NO. 65 of 68



PROPOSED ELECTRICAL SITE PLAN

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

0' 10' 20' 30' 40' 50' 60' 70' 80' 90'

EQUIPMENTS PER DISTRIBUTION PANEL

- DISTRIBUTION PANEL 1 (P1)

  LIGHTING FIXTURES: L1 - L7
  RECEPTACLES (4 UNITS): R1 - R5
  FLOOD LIGHTS: F1 - F4

- DISTRIBUTION PANEL 2 (P2)

  LIGHTING FIXTURES: L8 - L12
  RECEPTACLES (4 UNITS): R6
  RECEPTACLES (1 UNITS): C1 - C5
  FLOOD LIGHTS: F5 - F13

- DISTRIBUTION PANEL 3 (P3)

  LIGHTING FIXTURES: L13 - L22
  RECEPTACLES (4 UNITS): R7 - R9
  RECEPTACLES (1 UNITS): C6 - C10
  FLOOD LIGHTS: F14 - F17

- DISTRIBUTION PANEL 4 (P4)

  LIGHTING FIXTURES: L23 - L28
  RECEPTACLES (4 UNITS): R10 - R14
  RECEPTACLES (1 UNITS): C11
  FLOOD LIGHTS: F18 - F20

- DISTRIBUTION PANEL 5 (P5)

  LIGHTING FIXTURES: L29 - L35
  RECEPTACLES (4 UNITS): R15 - R20
  RECEPTACLES (1 UNITS): C12

LEGEND

A. AC FEEDER FROM MAIN DISTRIBUTION PANEL (MDP) TO PULL BOX (PBx) 3C # 1/0 AWG THWN-2 CU. @ 600V 90°C (L1, L2, N) / 1C # 2 AWG THWN-2 CU. @ 600V 90°C (GROUND) IN A 2"Ø PVC SCH-40 CONDUIT @ 36" B.F.G.

B. AC FEEDER FROM; PX TO RX. / 4 SETS, 3C # 10 AWG THWN-2 CU. @ 600V 90°C (L1, L2, N) / IN A ¾"Ø PVC SCH-40 CONDUIT @ 36" B.F.G., ONE (1) FOR EACH 4 GANG RECEPTACLE.

C. AC FEEDER FROM; PBX TO PX. / 3C # 2 AWG THWN-2 CU. @ 600V 90°C (L1, L2, N) / 1C # 6 AWG THWN-2 CU. @ 600V 90°C (GROUND) IN A 2"Ø PVC SCH-40 CONDUIT @ 36" B.F.G.

PX D. DISTRIBUTION PANEL 100A 120/240V 10KAV NEMA 3X SS. WITH LOCK.

PBX E. NEW UNDERGROUND PULL BOX SIMILAR TO URD-27 AS PER LUMA STANDARDS

LX F. NEW STREET LAMP SHALL BE OR EQUAL TO ARYA BY AEC ILLUMINAZIONE [www.aecilluminazione.com]

FX G. NEW LAMP SHALL BE OR EQUAL TO PLATEA PRO FLOODLIGHT 296X214MM BY IGUZZINI

RX H. NEW POWER RECEPTACLE COLUMN 4 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE

CX I. NEW POWER RECEPTACLE COLUMN 1 UNITS OF GANG RECEPTACLE WATER PROOF ENCLOSURE IMPACT RESISTANCE

MDP J. MAIN DISTRIBUTION PANEL

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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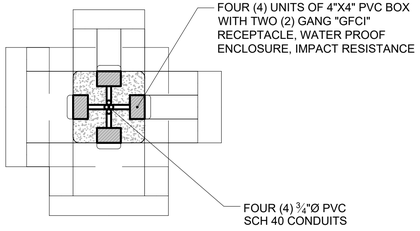
BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

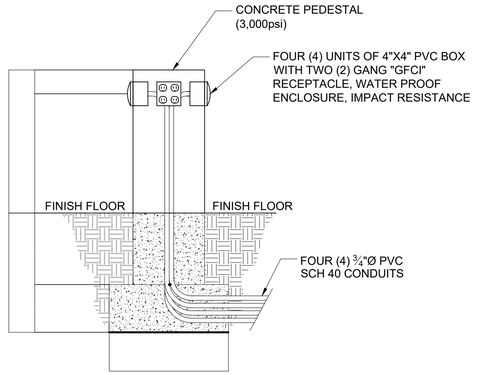
DRAWING NAME

ELECTRICAL SITE PLAN

SCALE: 1/32"=1'-0"	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **E-101**	SHEET NO. 66 of 68



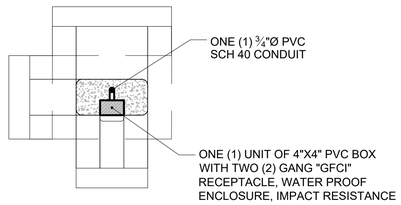
TOP VIEW



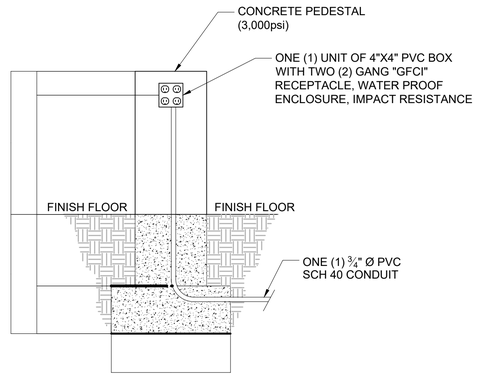
SECTION VIEW

FOUR (4) UNITS GANG DETAIL

SCALE: 1"=1'-0"



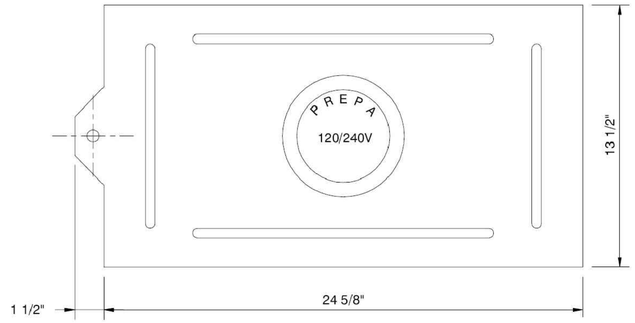
TOP VIEW



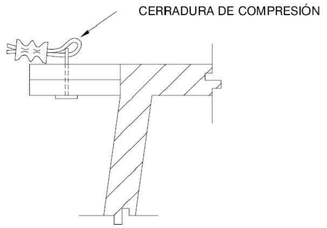
SECTION VIEW

ONE (1) UNIT GANG DETAIL

SCALE: 1"=1'-0"



VISTA SUPERIOR



DETALLE " X "

PULL BOX DETAIL (URD-27)

SCALE: N.T.S.

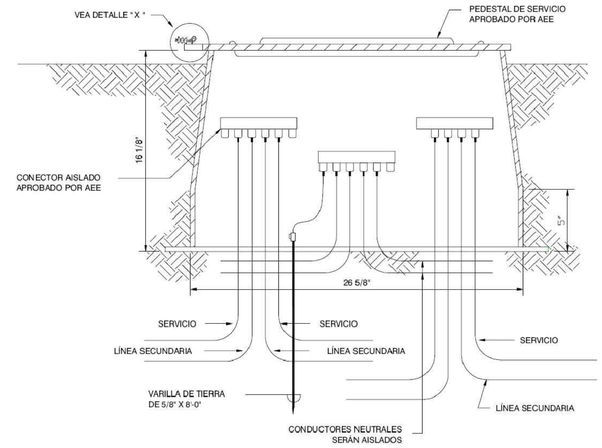
NOTAS:

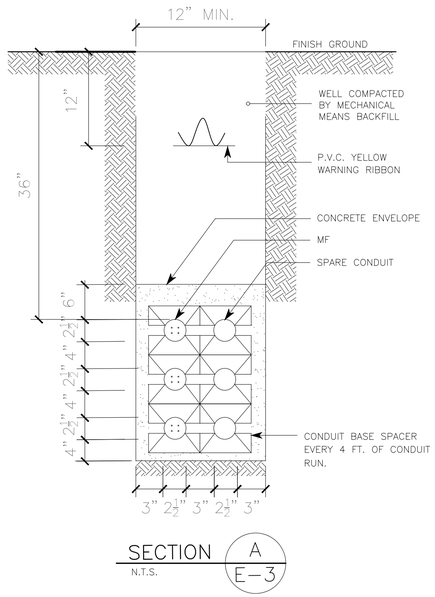
1 - ESTE PEDESTAL SE USARÁ CUANDO EL CALIBRE DE LOS CONDUCTORES SECUNDARIOS SEA MAYOR DE 4/O AWG.

2 - LOS CONECTORES SERÁN DEL TIPO INDICADO.

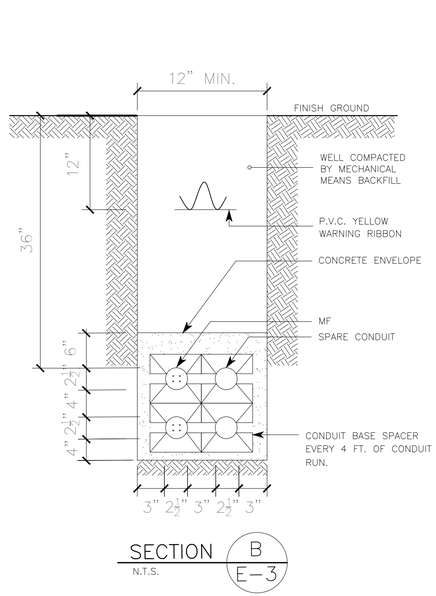
3 - LOS CONECTORES DEL NEUTRAL TAMBIÉN SERÁN AISLADOS.

4 - TODOS LOS SERVICIOS SECUNDARIOS SE INSTALARÁN EN CONDUCTOS DE PVC. EL DIÁMETRO DE LOS CONDUCTOS DEPENDERÁ DEL CALIBRE DE LOS CABLES.



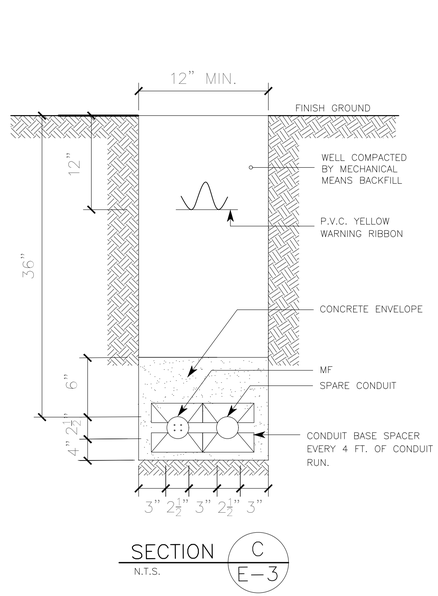


SECTION A E-3 N.T.S.



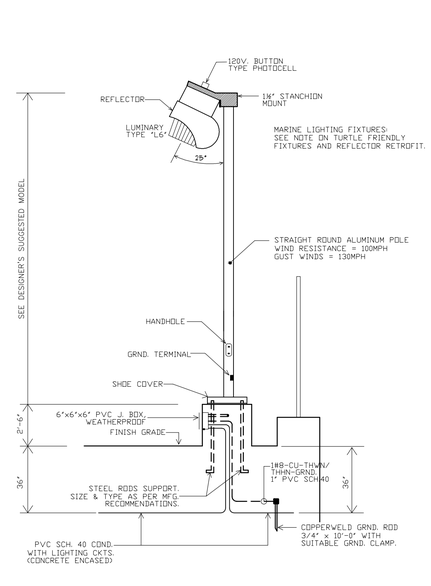
SECTION B E-3 N.T.S.

– FROM MAIN DISTRIBUTION PANEL TO PULL BOX



SECTION C E-3 N.T.S.

– FROM PULL BOX TO EQUIPMENT



TYPICAL LIGHTING FIXTURE DETAIL

SCALE: NOT TO SCALE

TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

ELECTRICAL EQUIPMENT AND DETAILS

SCALE:	BIDDEN DATE:
AS SHOWN	JAN. 2024
DRAWN BY:	CHECKED BY:
Exan Melendez, AIT Assoc. AIA	Jorge L. Perez Ruiz, PE
DRAWING NO.	SHEET NO.
E-102	67 of 68

NOTAS GENERALES

1. ESTOS PLANOS COINCIDEN CON LOS PLANOS DE INSCRIPCION RADICADOS EN LA OFICINA DE GERENCIA Y PERMISO (O.G.P.e.).
2. EL DUEÑO DEL PROYECTO ES RESPONSABLE DE GESTIONAR Y OBTENER, ANTES DE LA FECHA DE COMIENZO DE LA OBRA, TODOS LOS ENDOSOS, PERMISOS Y SERVIDUMBRES REQUERIDAS POR ENTIDADES GUBERNAMENTALES, ESTATALES, MUNICIPALES, FEDERALES Y PRIVADAS CONCERNIENTES AL DESARROLLO DEL TIPO DE PROYECTO PROPUESTO.
3. EL DUEÑO DE ESTA OBRA TIENE QUE CONTRATAR LOS SERVICIOS DE UN INGENIERO LICENCIADO QUE INSPECCIONE LA CONSTRUCCION DE LAS OBRAS ELECTRICAS DE ACUERDO CON LA LEY Num.7 DEL 19 DE JULIO DE 1985, SEGUN ENMENDADA, Y CON EL REGLAMENTO DE CERTIFICACION DE PLANOS DE PROYECTOS DE CONSTRUCCION ELECTRICA DE LUMA VIGENTE.EL DUEÑO TENDRA QUE NOTIFICAR A LUMA LA DESIGNACION DE ESTE INSPECTOR PRIVADO ANTES DEL COMIENZO DEL PROYECTO.
4. LA EJECUCION DE LAS OBRAS ELECTRICAS, SEGUN DISEÑADAS EN ESTOS PLANOS, DEBERA OBSERVAR LA MEJOR PRACTICA DE LA INDUSTRIA ELECTRICA Y CONSTRUCCION DE ACUERDO CON LAS NORMAS Y REGLAMENTACION ADOPTADAS POR LA A.E.E. Y AGENCIAS CONCERNIENTES, AL IGUAL QUE CON LOS CODIGOS, NEC Y NESC, DEMAS ESTANDARES DE IEEE, NPA, NEMA Y ANSI ADOPTADOS.
5. EL CONTRATISTA NO ESTA AUTORIZADO A HACER VARIACIONES A ESTE DISEÑO. ES RESPONSABILIDAD DEL CONTRATISTA CONSULTAR CON EL DISEÑADOR O INSPECTOR DESIGNADO PARA ESTA OBRA CUALQUIER DUDA QUE SURJA DE LA INTERPRETACION DE LOS PLANOS, DE LA EJECUCION DE LAS OBRAS PROPUESTAS, ESPECIFICACIONES TECNICAS O DISCREPANCIAS ENTRE LAS CONDICIONES EXISTENTES EN EL CAMPO Y AQUELLAS UTILIZADAS PARA PROPOSITO DE DISEÑO.
6. EL CONTRATISTA ELECTRICO NOTIFICARA A LUMA EL COMIENZO DE ESTAS OBRAS, MEDIANTE LA ENTREGA DEL DOCUMENTO NOTIFICACION DE COMIENZO DE PROYECTO EN EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE, CON POR LO MENOS QUINCE DIAS DE ANTICIPACION A LA FECHA PROPUESTA.
7. EL INSPECTOR PRIVADO Y EL CONTRATISTA ELECTRICO SON RESPONSABLES DE ASISTIR A UNA REUNION DE PRECONSTRUCCION A COORDINARSE CON EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION DE LA REGION CORRESPONDIENTE.
8. TODO TRABAJO A REALIZARSE EN LINEAS ENERGIZADAS, INCLUYENDO LA CONEXION DE ESTA OBRA, TIENE QUE SER REALIZADO POR LUMA.EL CONTRATISTA TIENE QUE ASUMIR TODOS LOS COSTOS DE EQUIPO, MATERIALES Y LABOR. EL CONTRATISTA TIENE QUE SOLICITAR A LUMA UN ESTIMADO PARA ESTOS TRABAJOS, EL CUAL TENDRA UNA VIGENCIA DE TRES MESES DESDE SU EXPEDICION.
9. SE PROHIBE LA REALIZACION DE CUALQUIER TIPO DE TRABAJO EN LAS FRANJAS DE SERVIDUMBRE ELECTRICA SIN LA AUTORIZACION POR ESCRITO DE LUMA.
10. LUMA NO APROBARA LA CONEXION DE PROYECTOS CON CONDICIONES DE INVASION DE SERVIDUMBRE O QUE NO CUMPLAN CON LOS DESPEJOS DE SEGURIDAD REQUERIDOS.

NOTAS ESPECIALES

11. EL CONTRATISTA DEL PROYECTO APORTARA A LUMA:
    - ☐ LA CANTIDAD DE $_____ PARA MEJORAS AL SISTEMA ELECTRICO EXISTENTE.
    - ☐ LAS OBRAS REQUERIDAS EN LA EVALUACION PARA ESTE PROYECTO DEL ___ DE _____ DE _____.

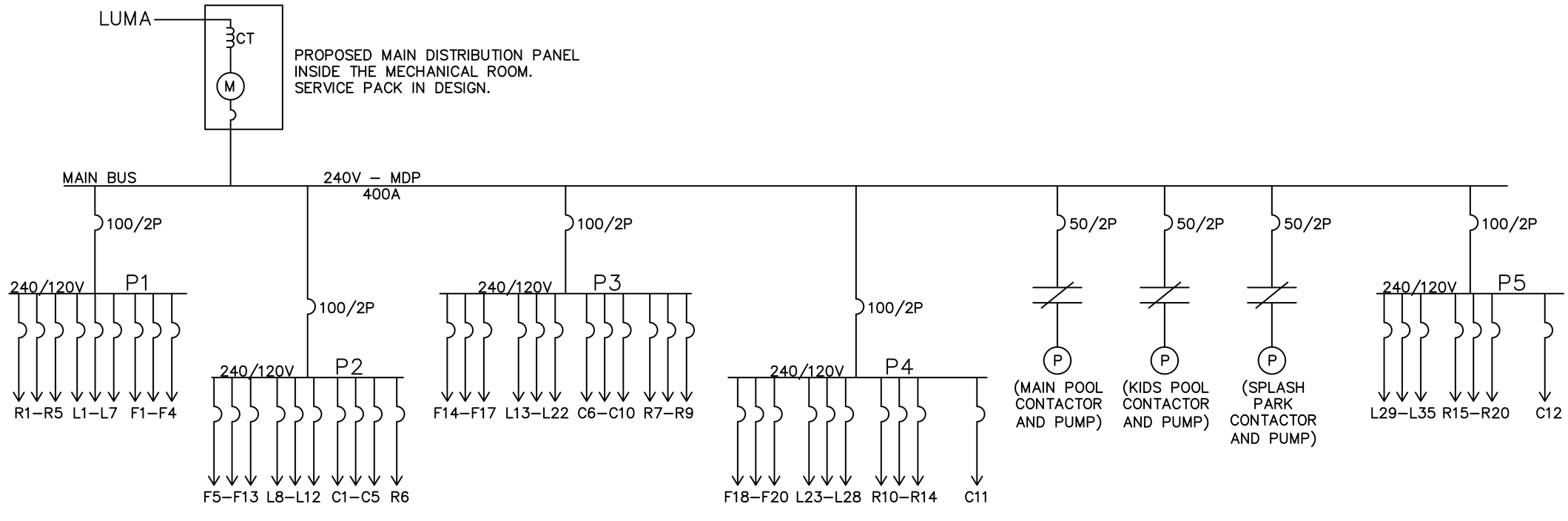
    ESTA APORTACION SE REALIZARA SEGUN LA CARGA PROPUESTA DE ACUERDO CON EL REGLAMENTO PARA DETERMINAR Y COBRAR LAS APORTACIONES DE PERSONAS O INSTITUCIONES EN PROYECTOS DE DESARROLLO VIGENTE.
12. LUMA NO CONFCTARA EL PROYFCTO A SU SISTEMA ELECTRICO HASTA TANTO EL CONTRATISTA CONSTITUYA LAS SERVIDUMBRES REQUERIDAS DE ACUERDO CON EL REGLAMENTO DE SERVIDUMBRE REQUERIDA, YA SEA DENTRO COMO FUERA DE LOS LIMITES DE PROYECTO.
13. LA INSTALACION DE SISTEMAS DE MEDICION TIENE QUE COORDINARSE CON LA OFICINA DE MEDICION DE LA REGION CORRESPONDIENTE. EL CONTRATISTA ELECTRICO TIENE QUE ASEGURARSE DE CONSULTAR CON ESTA OFICINA SOBRE LOS EQUIPOS Y MATERIALES A UTILIZARSE ADEMAS DE LA UBICACION DEL EQUIPO.
14. LA INSTALACION DE SUBESTACIONES, TRANSFORMADORES U OTRO EQUIPO ELECTRICO SOBRE SISTEMAS DE ALCANTARILLADO, LINEAS DE AGUA U OTRAS UTILIDADES ESTA PROHIBIDA.

NOTAS ESPECIALES

15. TODOS LOS EQUIPOS A UTILIZARSE EN LA CONSTRUCCION TIENEN QUE CUMPLIR CON LOS ESTANDARES DE IEEE, ANSI, NEMA Y ASTM.
16. EL CONTRATISTA ES RESPONSABLE DE VERIFICAR CON LUMA QUE TODO MATERIAL O EQUIPO A UTILIZARSE ESTE APROBADO POR LUMA PREVIO A SU INSTALACION. LUMA SE RESERVA EL DERECHO DE ACEPTAR CUALQUIER EQUIPO QUE SE LE VAYA A TRANSFERIR.
17. TODO EQUIPO Y MATERIAL (INCLUYENDO TRANSFORMADORES Y GABINETES DE SUBESTACIONES) A SER INSTALADOS A UNA MILLA O MENOS DE DISTANCIA DE CUERPOS DE AGUA SALADA TIENE QUE SER CONSTRUIDO EN ACERO INOXIDABLE, CON EXCEPCION DE LAS BASES DE MEDIDORES.
18. EN LOS SISTEMAS SOTERRADOS, TIENEN QUE UTILIZARSE CABLES PRIMARIOS CON TERMINACIONES DE 15KV PARA VOLTAJES DE DISTRIBUCION Y DE 46KV PARA LINEAS DE 38KV.
19. EN LOS SISTEMAS AEREOS, TIENEN QUE UTILIZARSE AISLADORES DE POLIMETRO DE 15KV PARA VOLTAJES DE DISTRIBUCION Y DE 46KV PARA LINEAS DE 38KV.
20. EL CONTRATISTA SERA RESPONSABLE DE ROTULAR TODO TRANSFORMADOR A SER TRANSFERIDO A LUMA CON UN NUMERO DE PROPIEDAD PROVISTO POR EL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.

SISTEMAS

21. EL CONTRATISTA DEL PROYECTO ES RESPONSABLE DE REALIZAR LAS PRUEBAS DE LOS CABLES PRIMARIOS Y SECUNDARIOS CON SUS TERMINACIONES. LOS RESULTADOS DE ESTAS PRUEBAS TIENEN QUE ESTAR DE ACUERDO CON LOS PARAMETROS ESTABLECIDOS POR LUMA PARA LAS MISMAS. ESTAS PRUEBAS TIENEN QUE REALIZARSE EN COORDINACION CON UN REPRESENTANTE DE LA OFICINA DE INSPECCIONES DEL DEPARTAMENTO DE INGENIERIA DE DISTRIBUCION CORRESPONDIENTE.
22. DURANTE LA INSTALACION DEL CABLE, ESTE DEBE ESTAR PROTEGIDO DE LA HUMEDAD Y ABRASIONES. EL CONTRATISTA ES RESPONSABLE DE INSTALAR EL CABLE MEDIANTE LAS PRACTICAS RECOMENDADAS DE HALADO PARA NO EXCEDER LA TENSION ESPECIFICADA PARA EL CABLE.
23. LAS TAPAS DE REGISTRO (MANHOLES) A SER INSTALADOS EN EL AREA DE SIEMBRA TIENEN QUE ESTAR PROTEGIDAS MEDIANTE UNA LOZA DE HORMIGON REFORZADO, SEGUN ESPECIFICADO EN EL PATRON URD–52.
24. EN AQUELLOS CASOS DONDE EL PROYECTO ESTE LOCALIZADO A MENOS DE UNA MILLA DE CUERPOS DE AGUA SALADA, LOS CONDUCTOS ASCENDENTES TIENEN QUE SER DE PVC SCHEDULE 80 O DE FIBERGLASS, SEGUN APROBADO POR LUMA.
25. LAS BANCADAS DEL SISTEMA SOTERRADO SERAN INSPECCIONADAS POR LA LUMA ANTES DE SER CUBIERTAS Y COMPACTADAS.
26. TODA BANCADA EXPUESTA A TRAFICO VEHICULAR TENDRA QUE SER PROTEGIDA CON HORMIGON, AQUELLAS QUE SE ENCUENTREN CERCA DE INSTALACIONES DE OTRAS UTILIDADES TENDRAN UN DESPEJO MINIMO DE 13 PULGADAS DE ESTAS.
27. LA CANTIDAD DE FUSIBLES DE REMPLAZO QUE PROVEERA EL CONTRATISTA SERA LA MISMA CANTIDAD DE LOS INSTALADOS EN CADA SUBESTACION.
28. LOS CONECTORES QUE SE UTILIZARAN PARA LA CONEXION A TIERRA DE ANTENAS Y SUBESTACIONES SERAN DE SOLDADURA EXOTERMICA (THERMO–WELD) O DE COMPRESION.
29. EL CONTRATISTA PROVEERA CABLE HALADO (FISHWIRE) EN CADA CONDUCTO DE RESGUARDO.
30. TODO SISTEMA DE DISTRIBUCION TENDRA UNA RESISTENCIA MAXIMA A TIERRA DE 10 OHMIOS. SE INSTALARA UNA VARILLA PARA CONECTAR A TIERRA EL NEUTRAL EN CADA CUATRO POSTES O CADA 1,000 PIES Y EN TODOS LOS TRANSFORMADORES.
31. CADA BASE DE HORMIGON PARA POSTE TIENE QUE INCLUIR DOS CONDUCTOS DE RESGUARDO PARA USO FUTURO, SEGUN REQUERIDO POR LUMA.
32. LAS BASES PARA POSTES TIENEN QUE SER INSPECCIONADOS POR LUMA EN SU ETAPA DE CONSTRUCCION.



TCM

APPROVED BY

Jorge L. Pérez Ruiz, PE
Lic. No. 15,863

CONSULTANTS

NOTE

Yo, Jorge Perez, Licencia No.15,863, certifico que soy el profesional que preparó estos planos y las especificaciones complementarias.También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Certifico, además,que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con lo dispuesto en la LeyNúm. 14 de 8 de enero de 2004, según enmendada, conocida como la "Ley para la Inversión por la Industria Puertorriqueña" y con la [Ley Núm.319 de 15 de mayo de1938,según enmendada; Ley Núm.96 de 6 de julio de 1978, según enmendada; según aplique]. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

CERTIFICATION

Working Drawings For:

PR-CRP-001035

BOULEVARD LUIS MUÑOZ MARÍN

Cll Joaquin
Adjuntas, Puerto Rico

DRAWING NAME

ONE LINE DIAGRAM AND ELECTRICAL NOTES

SCALE: AS SHOWN	BIDDEN DATE: JAN. 2024
DRAWN BY: Exan Melendez, AIT Assoc. AIA	CHECKED BY: Jorge L. Perez Ruiz, PE
DRAWING NO. **E-103**	SHEET NO. 68 of 68

Appendix F



Map Scale: 1:1,390 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

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

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

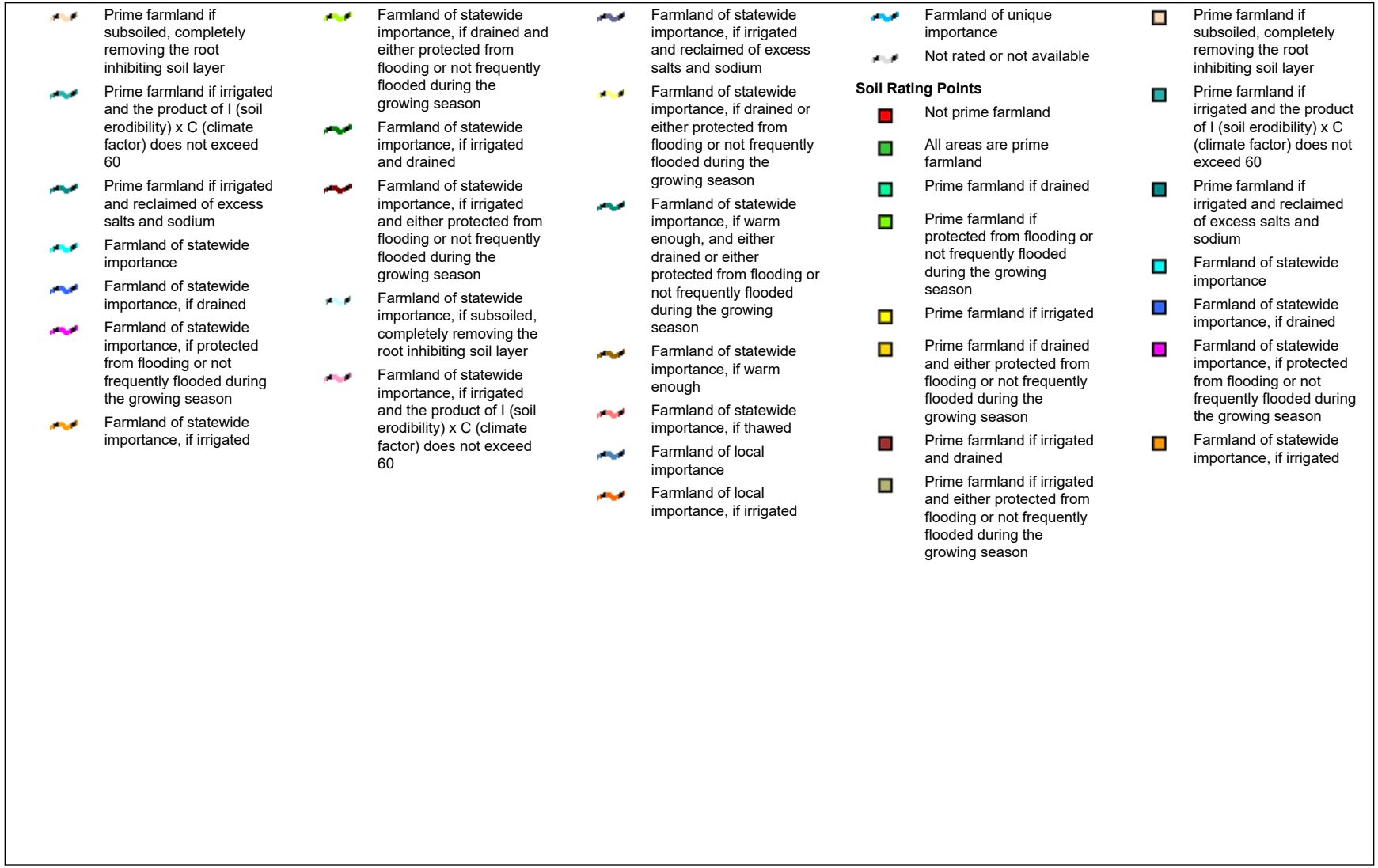
Soils

Soil Rating Polygons

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

Soil Rating Lines

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


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

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

Water Features

- Streams and Canals

Transportation

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

Background

- Aerial Photography

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

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

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

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

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

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

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

Soil Survey Area: Ponce Area, Puerto Rico Southern Part
Survey Area Data: Version 18, Sep 13, 2023

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

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

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

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
HmE2	Humatas clay, 20 to 40 percent slopes	Farmland of statewide importance	2.5	61.3%
HmF2	Humatas clay, 40 to 60 percent slopes	Not prime farmland	1.6	38.7%
Totals for Area of Interest			**4.1**	**100.0%**

Description

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

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



Legend

- Lat: 18.171523, Long: -66.728201
- Project Area
- US Census Urban

PUERTO RICO



Urban Areas Map
Boulevard Luis Muñoz Marín, Municipality of Adjuntas

Applicant ID: PR-CRP-001035
Project Coordinates: Lat: 18.171523, Long: -66.728201
Address: Rodulfo González Street PR-5516,
Adjuntas, PR 00601

TETRA TECH

Source: CRIM 2014 (https://catastro.crimpr.net/cdprpc/). U.S. US Census Bureau 2023 (https://www2.census.gov/geo/tiger/TIGER2023/UAC/). ESRI 2024.

Author: Genevieve Kaiser | Date: 7/12/2024

N

0 1,000 2,000

Feet

File Path: C:\projects\TTFDR_PRDOH City Revitalization Prog_105802228\GIS\map\PR-CRP-001035_Urban Areas Map.mxd