Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5

Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Plaza Manuel Jiménez Mesa Reconstruction PR-CRP-

000823 **Responsible Entity:** Puerto Rico Department of Housing

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

Guánica **State/Local Identifier**: Puerto Rico

Preparer:
JGF Group PSC / Quantum Consulting Group, LLC
PO Box 7346 Ponce, P.R. 00732
Julio González Fortuño, PhD(c), P.E., A.P.

Certifying Officer Name and Title:
Aldo A. Rivera Vázquez- Director- Permits and Environmental Compliance Division
Angel G. López Guzmán- Deputy Director- Permits and Environmental Compliance Division
María T. Torres Bregón- Permits and Environmental Compliance Manager
Sally Z. Acevedo Cosme- Permits and Environmental Compliance Specialist
Limary Vélez Marrero- Permits and Environmental Compliance Specialist
Ivelisse Lorenzo Torres- Permits and Environmental Compliance Specialist
Mónica M. Machuca Ríos- Permits and Environmental Compliance Specialist
Janette I. Cambrelén- Permits and Environmental Compliance Specialist
Santa D. Ramírez Lebrón- Permits and Environmental Compliance Specialist
Abdul X. Feliciano Plaza- Permits and Environmental Compliance Specialist
Pedro A. de León Rodríguez- Permits and Environmental Compliance Specialist
Javier Mercado Barrera- Permits and Environmental Compliance Specialist
Priscilla M. Toro Rivera- Permits and Environmental Compliance Specialist

Consultant (if applicable):
JGF Group PSC / Quantum Consulting Group, LLC
PO Box 7346 Ponce, P.R. 00732
Julio González Fortuño, PhD(c), P.E., A.P.

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

Project Location:
Coordinates Latitude: 17.97238227, Longitude: -66.90786221; NAD System x: 149737.0523, y: 215455.1267

The proposed Reconstruction of the Manuel Jiménez Mesa Plaza is situated on a 3,809 square-meter parcel on 25 de Julio Street. The “Project” is in the Pueblo Ward of the Municipality of Guánica, Puerto Rico. The parcel with cadaster number 407-085-059-01 is situated in the heart of Guánica's urban core, surrounded by historical sites, educational institutions, commercial facilities, and other amenities. The precise geographical coordinates provide an accurate point of reference for the project's location.

Location Map



Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The proposed Project consists of the refurbishment of approximately 3,809 square meters of the Plaza Manuel Jiménez Mesa structure located on 25 de Julio Street, Pueblo Ward of the Municipality of Guánica, Puerto Rico. All work will be confined to the project footprint. The Municipality of Guánica is interested in the reconstruction of the Manuel Jiménez Mesa Plaza to update its urban infrastructure program to modern operational standards. The municipality aims to rejuvenate the current Municipal Plaza, a centrally located public facility in the heart of the urban core, serving as a hub for communal social, educational, and musical activities, featuring

two existing kiosks providing food and refreshments. The renovation plan includes removing and replacing current urban surfaces and features, alongside new construction, and the installation of additional amenities.

The main areas and uses for the proposed action are indicated below:

AREA	USE	STREET	AREA (sq. ft)
Central Area	General activities		10,700
East Square	Visitor reception	25 de Julio St	2,080
West Square	New Fountain	Dr. Veve St	1,160
North Square	New vegetated pavilion	65 de Infantería St	1,160
South Square	New vegetated pavilion	Del Rosario St	4,950
Northeast Garden	Recreation, Monument	25 de Julio St & 65 de Infantería St	4,950
Northwest Garden	Recreation, Monument	65 de Infantería St & Dr. Veve St	4,950
Southwest Garden	Recreation, Kiosk	Dr. Veve St & Del Rosario St	4,950
Southeast Garden	Recreation, Kiosk	Del Rosario St & Dr. Veve St	4,950
Peripheral Sidewalk	Pedestrian circulation		4,004

The elements of the Plaza Manuel Jiménez Mesa reconstruction include:

- Demolition of the concrete platform and bandshell and central fountain basins (including pump house and pump equipment) to enhance space flexibility and pedestrian flow.
- Construction of replacement walkthrough fountain with new pump house with new pump equipment, and new pump module foundation. New misters at the garden gazebos, new storm sewer system, and a new cistern is also proposed. Excavation for the fountain nozzles would be approximately 1 to 3 feet in depth to connect to an existing water line. The total depth of ground disturbance for this feature is approximately 2'-11". A trench for storm sewer pipes would require excavation of approximately 8-feet deep. The utilities will be located near where previous ground disturbance has been already located.
- Reconstruction/preservation of two existing kiosks with removal of 34 benches for relocation, and the removal of bird sculpture installations.
- Construction of a stage. Removal of the 2016 concrete flooring is planned, with no proposed acoustic shells, platforms, or stands.
- Construction of eight new metal pergolas and two new garden gazebos. The pergolas would have reinforced concrete base with an estimated depth of 3 foot 11 inches and the garden pavilions an estimated depth of 3 foot, 1.5 inches.
- Construction of a new play yard/exercise equipment and walking trail.
- Removal of existing sidewalks, ramps, and walkways for the installation of new pavements, fostering better interaction with amenities and facilities of the new urban infrastructure.
- New pavement finish at central plaza area, sidewalks, and ramps will be added. New pedestrian crossings, new granite border coping, new soldier brick joinery, and glazed

emblem tiles. These activities will have an estimated depth of ground disturbance of one foot. The existing pavements of the streets surrounding the Plaza will be scarified to add new on-ground concrete slabs, new sidewalks, ADA ramps, and new asphalt finish will have an estimated depth of ground disturbance of one foot.

- Reconfiguration of planting areas for landscaping improvements and reforestation. Trees and shrubs will delineate zones, maintaining a proportional height to surrounding buildings, ensuring the creation of a cone of shade for rest areas.
- Addition and relocation of new urban features, such as lampposts, trash bins, benches, etc., to provide more recreational areas in shaded spaces. Playground equipment will be placed in the new planting areas.
- Installation of new plaza furniture aligned with proposed uses and atmosphere, featuring durable benches within covered or partially covered areas. A highlight is the introduction of a walkthrough fountain system. The square's illumination will be enhanced with contemporary and more efficient technology.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:
The proposed action involves the reconstruction of the Plaza Manuel Jiménez Mesa of Guánica to provide existing connections to neighboring properties and a commercial foundation that will significantly revitalize the local economy, offering recreational activities and passive entertainment for a diverse group of people.

The reconstruction of the Project stands as a significant milestone for Guánica and neighboring municipalities, including Lajas, Sabana Grande, and Yauco. Primarily, it addresses the damage caused by the earthquakes of 2020 and subsequent events. The project is poised to revitalize the plaza, injecting new life into the local economy by fostering commercial activities and creating business opportunities. Construction and subsequent operations hold the potential to generate employment, boost tourism, and stimulate economic activity in the region. Simultaneously, the enhanced layout of the plaza added shaded recreation areas, and modern amenities will not only create more recreational opportunities for residents and visitors but also foster community engagement and provide spaces for social interactions. These efforts contribute not only to ecological balance but also to reducing the need for excessive artificial lighting, promoting sustainability in the region.

Existing Conditions and Trends [24 CFR 58.40(a)]:
The Municipal Government of Guánica is reconstructing the Plaza Manuel Jiménez Mesa to modernize its urban infrastructure program, leveraging existing access roads and underground utilities infrastructure. The Project's location will be adjacent to prominent tourist attractions such as the Karst Conservation Zone and the Guánica State Forest Natural Reserve. Adjacent to the project area, various entities contribute to the neighborhood landscape. To the west lies the noncommercial entity, Parroquia San Antonio Abad, a church. Eastward, the U.S. Postal Service and Escuela Agripina Seda y Aurea E. Quiles school are notable establishments. Positioned to the south is the Museum of Guánica, offering cultural enrichment to the community. Additionally, within proximity to the project site are ‘Oficina Municipal para el Manejo de Emergencias’ (OMME), and commercial facilities such as doctor practitioner offices, laboratory services, restaurants, and a funeral service, enriching the local amenities. The project design ensures the revitalization of the local economy by establishing connections to

neighboring properties and fostering a commercial foundation, emphasizing green and paved area reconfiguration, reforestation, and improvements in urban infrastructure interactions, including compliance with lighting, ramp systems, pedestrian crossings, and sidewalk width standards.

Guánica, with a declining population and median household income below average, stands to benefit significantly by enhancing its town square's infrastructure. It is important to note that in the 2010 Census, Guánica had a population of 19,427, which has since decreased to 13,787, representing a 29.03 % decline over the past decade. Additionally, the median household income in Guánica, estimated at $ 12,856, falls considerably below the median income recognized by HUD and the Puerto Rico Department of Labor. The unemployment rate, reported at 10.6% as of October 2023, reflects further economic challenges within the municipality.

Nonetheless, the positive impact of this project goes far beyond Guánica. Neighboring municipalities, including Lajas, Sabana Grande, and Yauco, with their own population declines and unemployment issues, will also reap the benefits of this project. Notably, the 2010 US Census indicated an aggregate population of 93,061 for these neighboring municipalities, with an average median household income of $14,894. Over the past decade, these communities have witnessed a population decline of approximately 13.78%, culminating in a total of 80,235 residents in 2020. The average unemployment rate for these municipalities currently stands at approximately 8.5%. However, it is important to note that the actual unemployment rates are likely higher, as they do not account for individuals who have ceased their job search and do not encompass the job losses caused by the COVID-19 Pandemic. In essence, this project holds the promise of enhancing existing connections, revitalizing the local economy, and offering diverse recreational activities and passive entertainment. Consequently, its positive impact transcends Guánica, resonating with the well-being and prosperity of multiple communities in the vicinity.

Funding Information

Grant Number	HUD Program	Funding
B-17-DM-72-0001	CDBG-DR	
B-18-DP-72-0001	CPD/CDBG-DR	
B-19-DP-78-0002	CPD/CDBG-DR	
B-18-DE-72-0001	CPD/CDBG-DR	
TOTAL		$11,938,162,23

Estimated Total HUD Funded Amount: $3,800,000.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:** $3,857,767.02

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

The record below is 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. Note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	This Project complies with the applicable distances to a military (15,000 feet) or civilian airport (2,500 feet). The two closest airports are the Mercedita International Airport, and the Luis Muñoz Marín International Airport located at 116,469 feet and 353,231 feet from the project, respectively. The Project complies with Airport Hazard requirements under 24 CFR Part 51 Subpart D. See the worksheet in Appendix A and Figures 1 and 2 in Appendix B.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	The Project is located outside of the CBRS Unit and outside of the CBRS Buffer Zone; therefore, it will not impact on the coastal region. The Project is approximately 8,401.21 feet (1.59 miles) from the nearest CBRS Unit. The Project complies with Coastal Barrier Resources requirements under the Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990. See the worksheet in Appendix A and Figure 3 in Appendix B.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994	Yes ☐ No ☒	The area is designated by the Federal Emergency Management Agency (FEMA) as Zone "AE". FEMA's Flood Insurance Rate Map (FIRM) Panel number is 72000C1960J and the Flood Determination number is 2023-

[42 USC 4001-4128 and 42 USC 5154a]		00-JDI-6275 issued on November 18, 2009. The name of the Community Participant is "Comunidad Participante de Puerto Rico" with the Participating Number 720000#. The project does not require flood insurance. The Project complies with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994. See the worksheet in Appendix A and Figure 4 in Appendix B.
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 ☒	A search was made on December 13, 2023, in the Environmental Protection Agency (EPA) Green Book on Nonattainment Areas for Criteria Pollutants, and to date, the municipality of Guánica is in attainment status for all criteria pollutants. The Project complies with the Clean Air Act, as amended, particularly section 176(c) & (d). See worksheet in Appendix A and Puerto Rico Nonattainment/Maintenance Status in Appendix C.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☒ No ☐	The project site is located within a Coastal Zone Management Area. The Puerto Rico Planning Board is responsible for implementation of the Coastal Zone Management Program in Puerto Rico. On July 24, 2024 (amended on November 20, 2024), the Planning Board issued a Federal Consistency Certification for activities under the Community Development Block Grant-Disaster Recovery Program. The proposed action qualifies under Part D of the Consistency Certification "Infrastructure projects (sidewalk, roads, highways, service lines, public squares)" as long as the applicant fulfills the following requirements before the construction phase of the project. 1) Evidence compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by

		the PR Permit Management Office (OGPe). 2) Evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project. 3) In the case of projects that are located within Historic Zones designated by the PR Planning Board, the project must have the endorsement of the Puerto Rican Culture Institute. The Office of Geology and Hydrogeology (OGH) of the Puerto Rico Planning Board will provide a conditioned certification letter which will allow the applicant to have access to the funds to finance the design and permitting phase. The Puerto Rico Planning Board in its meeting of November 20, 2024 determined that the applicant must fulfill the above-mentioned requirements 120 days from receipt of the OGH Conditioned Certification letter. The Project complies with the Coastal Zone Management Act, section 307(c) & (d). See the worksheet in Appendix A, Figure 6 in Appendix B, and the CZMP Federal Consistency along with proof of filing on the day of submission in Appendix D.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	On March 1st, 2024, a search was conducted using NEPAssist. The NEPAssist map revealed that there are 8 RCRA facilities and 2 NPDES facilities within 3,000 feet of the Project. The 8 RCRA sites and one NPDES site all reported no violations within the last three years. One NPDES site, PRASA GUANICA STP, showed violations concerning pH and turbidity of effluent. The earlier violations were corrected. There are no more current records of mitigation for the latest violation of enterococci levels. While there was no specific site inspection report, an archaeological Phase 1A study was conducted for the site on May 6, 2023. The study determined that the property retains its

		original use as a recreational public space, thus there is no evidence to suggest that the site had been previously used for commercial or industrial activity and thus no tanks or sources for hazardous material spills or releases. Photos of the site (see Appendix K) do not show any debris, soil discolorations, or evidence of spills. An Asbestos Containing Building Materials (ACBM) Inspection Report was conducted on July 28, 2022. The evaluation found no asbestos-containing materials during the inspection of the Project area. A Lead Based Paint (LBP) Inspection was conducted on July 28, 2022. The inspection found that LBP was present in selective components and surfaces (bollards, fire hydrants, and fountain lids) at the project site. These objects would either be replaced or the paint would be removed during the implementation of the project. Otherwise, the site was found to be free of the presence of an environmental condition that may become a hazard. This Project complies with 24 CFR Part 50.3(i) & 58.5(i)(2). See the worksheet in Appendix A and Figure 7 in Appendix B. Refer to the Phase 1A study in Appendix E and the ACBM Report in Appendix F. Additionally, consult the relevant NEPAssist reports in Appendix G.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☒ No ☐	In compliance with Section 7 of the Endangered Species Act (16 USC. 1536), an informal consultation was conducted on March 6, 2024, to assess potential impacts on endangered and threatened species and critical habitats. The consultation was sent to the USFWS on April 3, 2024, and a concurrence was received on April 5, 2024. See Appendix H. The consultation included a comprehensive assessment of species listed in the US Fish & Wildlife Service's (USFWS) Integrated Planning and Consultation (IPaC) report. The IPaC report listed the following species: Puerto

		Rican Boa (*Chilabothrus inornatus*), the Caribbean Manatee (*Trichechus manatus*), the Bariaco (*Trichilia triacantha*) plant and the Yellow-shouldered Blackbird (*Agelaius xanthomus*). According to the USFWS's determination, the Project will have a determination impact of No Effect on the Puerto Rican Boa (*Chilabothrus inornatus*), the West Indian Manatee (*Trichechus manatus*) and the Bariaco (*Trichilia triacantha*) plant; and a determination of Not Likely to Adversely Effect on the Yellow-shouldered Blackbird (*Agelaius xanthomus*). As a mitigation measure for the Yellow-shouldered Blackbird, a Tree Inventory and Tree Mitigation Plan has been formulated. Additionally, the USFWS documents required for informal consultation have been submitted to the program and signed by a biologist. This Project complies with the Endangered Species Act of 1973 (section 7). See the worksheet in Appendix A. All correspondence with the USFWS regarding the informal consultation process and related communications, as well as a summary of mitigations required by the USFWS, can be found in Appendix H. Additionally, other relevant documents including the Biological Assessment, Tree Inventory and Mitigation Plan, IPaC Report, and General Project Design Guidelines are also included in Appendix H for comprehensive reference.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	The project itself does not involve the establishment of a hazardous facility, and it will not entail activities that result in higher residential densities or conversions. The Project complies with 24 CFR Part 51 Subpart C. See worksheet in Appendix A and the Interdisciplinary Survey Drawings in Appendix I.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	This Project does not include activities that could potentially convert vacant land that could be used for agricultural purposes to non-agricultural use. The soil in the Project area is classified as Ua (Urban Land) by the NRCS.

		According to the NRCS the soil is classified as "not prime farmland" and there are no agricultural activities. Therefore, no agricultural land will be converted to non-agricultural uses. The Project complies with the Farmland Protection Policy Act (sections 1504(b) and 1541). See worksheet in Appendix A and Figures 8 and 9 in Appendix B.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☒ No ☐	The proposed project is located in the floodplain. The Project area is in the subject to the 100-year flood (or the 1 percent annual chance of flooding. The project encompasses 0.94 acres, all of which are located within the A Zone representing the 100-year floodplain according to the ABFE map Effective date of April 18, 2018. An 8-step decision-making process was completed and is attached in Appendix J. An early public notice was published in the "Primera Hora" newspaper on January 30, 2023. No comments were received. A final notice was published in the "El Vocero" newspaper on December 28, 2023. No comments were received. The project will be constructed according to the current regulations designed to minimize impacts including considering provisions for draining and using pervious surfaces throughout the site. Impacts to the floodplain will also be limited due to construction occurring within the previously developed site. The Project complies with Executive Order 11988 (section 2(a)). Refer to the worksheet in Appendix A, Figure 10 in Appendix B, and 8-step analysis in Appendix J.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	The site was evaluated on June 13, 2023, and again on December 8, 2023, February 2, 2024 and May 6, 2024, by an SOI Qualified Architect/Architectural Historian. Additionally, the site was evaluated on

		December 21, 2022, and again on December 6, 2023, February 2, 2024, and May 6, 2024, by an SOI Qualified Archaeologist. (See Appendix K). The SHPO concurred with a finding of No Adverse Effect on December 18, 2024, with the condition that the monitoring plan submitted on September 26, 2024, is implemented. On May 6, 2023, A Phase 1A archaeological evaluation was conducted (Appendix E), revealing no archaeological evidence within the site, likely obscured by existing constructions, which will be further explored during construction monitoring activities. The evaluation indicates the presence of three archaeological assets near the project area, which correspond to the San Antonio Abad Parish, the Museum of Art and History, and the James Garfield School. These three structures are physically separate from the Plaza area, which is why the evaluation determined that the proposed project will not cause impacts to them. The Project complies with the National Historic Preservation Act of 1966, that is, sections 106 and 110. See worksheet in Appendix A, and Figures 11 and 12 in Appendix B. Refer to Appendix K to see the Section 106 Compliance Report (approved on December 18t^{h}, 2024), NHPA Effect Determination Form & Archaeology Monitory Plan (dated September 26, 2024).
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 consists of the restoration of a nonresidential complex. The closest residence is located approximately 213.8 feet (0.04 miles) from the project site (see Figure 13 in Appendix B). The Puerto Rico Department of Natural and Environmental Resources (PRDNER) regulates noise pollution through the Noise Pollution Control Regulations of 2011. During the construction phase of the Project, noise levels may increase for short periods but would not exceed the regular noise levels' thresholds applicable to residential and commercial receiving areas. The noise exposure limit for residential receiving areas

		is 60 dB(A) during the day and at night is 50 dB(A). During the day, the threshold for commercial receiving areas is 65 dB(A), and at night it is 55 dB(A). The Project complies with the Noise Control Act of 1972, as amended. See worksheets in Appendix A.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	There are no Sole Source Aquifers in or near the Project. The nearest SSA is in Florida (1000.5 miles to the northwest). The proposed Project area falls within the Alluvial Valley aquifer. According to the USGS, the Alluvial Valley aquifers are unconsolidated sand and gravel aquifers that represent important local sources of groundwater in Puerto Rico. The permeability of alluvial aquifers in Puerto Rico is relatively high, and their spatial extent is comparatively limited. The Project complies with the Safe Drinking Water Act (section 1424(e)). See worksheet in Appendix A and Figures 14 and 15 in Appendix B.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	There are no wetlands in the project area. The closest wetland is 1,197 feet south of the project area. Thus, no wetlands will be affected by the Project activities. It is important to note that this area has already experienced previous impacts, as it is used as a public space for visitors and residents visiting recreational space and has also been affected by previous remodeling projects. According to the technical analysis of all collected and available information, the project does not require a Jurisdictional Wetland Assessment. See worksheets in Appendix A and Figure 16 in Appendix B.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	According to the National Wild and Scenic Rivers System list, the Project is not within the proximity of the NWSRS river. The nearest distance to the NWSRS river is approximately 76.25 miles to the Icacos River. The designated wild and scenic rivers will not be impacted nor affected by the development of the proposed project. See the worksheet in Appendix A and Figure 17 in Appendix B.

ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 14173	Yes ☐ No ☒	On January 21, 2025, President Donald Trump issued the Executive Order 14173 titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Additional Studies Performed:

Asbestos Containing Building Materials Inspection Report. August 2022.

Lead Based Paint Inspection Report August 2022

Archaeological Evaluation Phase 1A. June 2023.

Section 106 NHPA Effect Determination – Architecture. June 2023.

Tree Inventory and Tree Mitigation Plan.

Field Inspection (Date and completed by):

ACM survey conducted by Zimmetry Environmental Management Corp. on July 28, 2022.

Lead Based Paint survey conducted by Zimmetry Environmental Management Corp. on July 28, 2022.

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

Coastal Zone Management Program (CZMP)

Department of Natural and Environmental Resources (DRNA, by its Spanish acronym)

Federal Emergency Management Agency (FEMA)

LUMA Energy/Puerto Rico Electric Power Authority (AEE, by its Spanish acronym)

National Wild and Scenic System (NWSS)

Oficina de Gerencia de Permisos (OGPe)

Planning Board

Puerto Rico Aqueduct and Sewer Authority (PRASA)

Puerto Rico Department of Housing

State Historic Preservation Office (SHPO)

United States Environmental Protection Agency (EPA)

United States Fish and Wildlife Service (FWS)

United States Geological Survey (GS)

Web Soil Survey (NRCS)

List of Permits Obtained:

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

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

Law, Authority, or Factor	Mitigation Measure
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978.	The proposed project will comply with state noise regulations on hours of operation (Reglamento para el control de la contaminación por ruido.) A maximum noise level of 60(dB) during the daytime throughout the construction phase, and it will not generate noise pollution during its operation.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	The project will be constructed according to the current regulations designed to minimize impacts including considering provisions for draining and using pervious surfaces throughout the site. Measure could include incorporating bioswales, promoting evapotranspiration, adopting stormwater capture and reuse practices, floodproofing structures, and elevating structures with freeboard above the required base flood elevations. Impacts to the floodplain will also be limited due to construction occurring within the previously developed site.
Endangered Species Endangered Species Act of 1973,	To address and mitigate potential impacts on the endangered, Yellow-shouldered Blackbird (*Agelaius xanthomus*), the Project has formulated a Tree Inventory and

particularly section 7; 50 CFR Part 402	Tree Mitigation Plan (see Inventario De Arboles Y Plan de Siembra in Appendix I). This strategy involves a detailed assessment of the existing arboreal environment and outlines a reforestation plan, which emphasizes the introduction and cultivation of tree species, particularly those conducive to the habitat requirements of the endangered plant and bird species
Coastal Zone Management	Before construction begins the applicant must: • Provide to the Planning Board a copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe). • Demonstrate compliance with any floodplain requirements. Demonstrate endorsement of the Puerto Rican Culture Institute of any project located within a Planning Board designated Historic Zone.
Historical Resources	The approved monitoring plan must be implemented before and during construction.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	The LBP at the site would be mitigated by either removal of the LBP or removal and replacement of the entire object with the LBP.

Determination:

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

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

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

Preparer Signature: Clifford J Jarman **Date:** **06/13/2025**

Name/Title/Organization: Clifford Jarman Senior Environmental Scientist, Tetra Tech Inc.

Responsible Entity Agency Official Signature (Certifying Officer):

Digitally signed by Ivelisse Lorenzo-Torres
Date: 2025.06.23 12:06:07 -04'00'

Date:

Name/Title: **I. Lorenzo, 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: Worksheets

Airport Hazards Worksheet

Airport Hazards (CEST and EA)

General policy	Legislation	Regulation
It is HUD's policy to apply standards to prevent incompatible development around civil airports and military airfields.		24 CFR Part 51 Subpart D
References		
https://www.hudexchange.info/environmental-review/airport-hazards		

1. **To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?**

   ☒No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

   ☐Yes → *Continue to Question 2.*

2. **Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

   ☐Yes, project is in an APZ → *Continue to Question 3.*

   ☐Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

   ☐No, project is not within an APZ or RPZ/CZ

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

3. **Is the project in conformance with DOD guidelines for APZ?**

   ☐Yes, project is consistent with DOD guidelines without further action.

   Explain how you determined that the project is consistent:

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

☐No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

☐Project is not consistent with DOD guidelines, but it has been approved by Certifying Officer or HUD Approving Official.

Explain approval process:

If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

<u>Worksheet Summary</u>

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

This Project complies with the applicable distances to a military (15,000 feet) or civilian airport (2,500 feet). The two closest airports are the Mercedita International Airport and the Luis Muñoz Marín International Airport located at 116,469 feet and 353,231 feet from the project, respectively. The Project complies with Airport Hazard requirements under 24 CFR Part 51 Subpart D. See the worksheet in Appendix A and Maps B01 and B02 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Coastal Barrier Resources Worksheet

Coastal Barrier Resources (CEST and EA)

General requirements	Legislation	Regulation
HUD financial assistance may not be used for most activities in units of the Coastal Barrier Resources System (CBRS). See 16 USC 3504 for limitations on federal expenditures affecting the CBRS.	Coastal Barrier Resources Act (CBRA) of 1982, as amended by the Coastal Barrier Improvement Act of 1990 (16 USC 3501)	
References		
https://www.hudexchange.info/environmental-review/coastal-barrier-resources		

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

1. **Is the project located in a CBRS Unit?**

☒No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*

☐Yes → *Continue to Question 2.*

> Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see 16 USC 3505 for exceptions to limitations on expenditures).

2. **Indicate your selected course of action.**

☐ After consultation with the FWS the project was given approval to continue

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map and documentation of a FWS approval.*

☐ Project was not given approval

Project cannot proceed at this location.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The Project is located outside of the CBRS Unit and outside of the CBRS Buffer Zone; therefore, it will not impact the coastal region. The Project is approximately 8,401.21 feet (1.59 miles) from the nearest CBRS Unit. The Project complies with Coastal Barrier Resources requirements under the Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990. See the worksheet in Appendix A and Map B03 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Flood Insurance Worksheet

Flood Insurance (CEST and EA)

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be used in floodplains unless the community participates in National Flood Insurance Program and flood insurance is both obtained and maintained.	Flood Disaster Protection Act of 1973 as amended (42 USC 4001-4128)	24 CFR 50.4(b)(1) and 24 CFR 58.6(a) and (b); 24 CFR 55.1(b).
Reference		
https://www.hudexchange.info/environmental-review/flood-insurance		

1. **Does this project involve mortgage insurance, refinance, acquisition, repairs, construction, or rehabilitation of a structure, mobile home, or insurable personal property?**

   ☐No. This project does not require flood insurance or is excepted from flood insurance. → *Continue to the Worksheet Summary.*

   ☒Yes → *Continue to Question 2.*

2. **Provide a FEMA/FIRM map showing the site.**

   The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

   Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

   ☐No → *Continue to the Worksheet Summary.*

   ☒Yes → *Continue to Question 3.*

3. **Is the community participating in the National Flood Insurance Program *or* has less than one year passed since FEMA notification of Special Flood Hazards?**

   ☒Yes, the community is participating in the National Flood Insurance Program.

   For loans, loan insurance or loan guarantees, flood insurance coverage must be continued for the term of the loan. For grants and other non-loan forms of financial assistance, flood insurance coverage must be continued for the life of the building irrespective of the transfer of ownership. The amount of coverage must equal the total project cost or the maximum coverage limit of the National Flood Insurance Program, whichever is less

Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ *Continue to the Worksheet Summary.*

☐Yes, less than one year has passed since FEMA notification of Special Flood Hazards.
If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required.

→ *Continue to the Worksheet Summary.*

☐No. The community is not participating, or its participation has been suspended.

Federal assistance may not be used at this location. Cancel the project at this location.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The area is designated by the Federal Emergency Management Agency (FEMA) as Zone "AE". FEMA's Flood Insurance Rate Map (FIRM) Panel number is 72000C1960J and the Flood Determination number is 2023-00-JDI-6275 issued on November 18, 2009. The name of the Community Participant is "Comunidad Participante de Puerto Rico" with the Participating Number 720000#. The Project complies with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994. See the worksheet in Appendix A and Maps B04 and B05 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Air Quality Worksheet

Air Quality (CEST and EA)

General Requirements	Legislation	Regulation
The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA), which sets national standards on ambient pollutants. In addition, the Clean Air Act is administered by States, which must develop State Implementation Plans (SIPs) to regulate their state air quality. Projects funded by HUD must demonstrate that they conform to the appropriate SIP.	Clean Air Act (42 USC 7401 et seq.) as amended particularly Section 176(c) and (d) (42 USC 7506(c) and (d))	40 CFR Parts 6, 51 and 93
Reference		
https://www.hudexchange.info/environmental-review/air-quality		

Scope of Work

1. **Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?**

   ☐ Yes

   → *Continue to Question 2.*

   ☒ No

   Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Air Quality Attainment Status of Project's County or Air Quality Management District

2. **Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?**
   Follow the link below to determine compliance status of project county or air quality management district:
   http://www.epa.gov/oaqps001/greenbk/

   ☐ No, project's county or air quality management district is in attainment status for all criteria pollutants

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

   ☐ Yes, project's management district or county is in non-attainment or maintenance status for one or more criteria pollutants.

Describe the findings:

→ *Continue to Question 3.*

3. **Determine the <u>estimated emissions levels of your project for each of those criteria pollutants</u> that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis or threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?**

   ☐ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Explain how you determined that the project would not exceed de minimis or threshold emissions.*

   ☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

   → *Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.*

4. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

A search was made on December 13, 2023, in the Environmental Protection Agency (EPA) Green Book on Nonattainment Areas for Criteria Pollutants, and to date, the municipality of Guánica is in attainment status for all criteria pollutants. Furthermore, Figure 10 evaluates pertinent air quality criteria. The Project is in compliance with the Clean Air Act, as amended, particularly section 176(c) & (d). See worksheet in Appendix A and Puerto Rico Nonattainment/Maintenance Status in Appendix C.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Coastal Zone Management Worksheet

Coastal Zone Management Act (CEST and EA)

General requirements	Legislation	Regulation
Federal assistance to applicant agencies for activities affecting any coastal use or resource is granted only when such activities are consistent with federally approved State Coastal Zone Management Act Plans.	Coastal Zone Management Act (16 USC 1451-1464), particularly section 307(c) and (d) (16 USC 1456(c) and (d))	15 CFR Part 930
References		
https://www.onecpd.info/environmental-review/coastal-zone-management		

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samona	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

1. **Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?**

   ☒Yes → *Continue to Question 2.*

   ☐No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.*

2. **Does this project include activities that are subject to state review**?

   ☐Yes → *Continue to Question 3.*

   ☒No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.*

3. **Has this project been determined to be consistent with the State Coastal Management Program**?

   ☐Yes, with mitigation. → *Continue to Question 4.*

   ☐Yes, without mitigation. → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.*

☐No, project must be canceled.

Project cannot proceed at this location.

4. Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Continue to the Worksheet Summary below. Provide documentation of the consultation (including the State Coastal Management Program letter of consistency) and any other documentation used to make your determination.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The Project site is located within a Coastal Zone Management Area; however, the Project does not include activities subject to state review as it is a refurbishment of an already impacted area that will not entail changes to its footprint. On April 9, 2024, a Federal Consistency for the Coastal Zone Management Program (CZMP) was submitted to the Office of the Secretary of the Planning Board. On November 18, 2024, the approved Federal Consistency Certification with Num. CZ-2024-0618-183 was received. The Project complies with the Coastal Zone Management Act, sections 307(c) & (d). See the worksheet in Appendix A, Map 06 in Appendix B, and the CZMP Federal Consistency Certification in Appendix D.

Are formal compliance steps or mitigation required?

☒ Yes

☐ No

Contamination and Toxic Substances Worksheet

Contamination and Toxic Substances (Multifamily and Non-Residential Properties)

General requirements	Legislation	Regulations
It is HUD policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of the occupants or conflict with the intended utilization of the property.		24 CFR 58.5(i)(2) 24 CFR 50.3(i)
Reference		
https://www.hudexchange.info/programs/environmental-review/site-contamination		

1. **How was site contamination evaluated? [1] Select all that apply.**

   ☐ ASTM Phase I ESA
   ☐ ASTM Phase II ESA
   ☐ Remediation or clean-up plan
   ☐ ASTM Vapor Encroachment Screening
   ☒ None of the above

   → *Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.*
   Continue to Question 2.

2. **Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)**

   ☒ No

   Explain:

   An archeological Phase 1A study was carried out for the site in June 2023 (See Attachment Q: Archaeological Phase 1A Study). The property retains its original use as a recreational public space, thus there is no evidence to suggest that the site had been previously used for commercial or industrial activity. In the study, the site was found to be free of the presence of an environmental condition that may become a hazard. Additionally, an Asbestos Containing Building Materials (ACBM) Inspection Report was conducted in August 2022. The evaluation found no asbestos containing materials during the inspection of the Project area.

[1] HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

→ *Based on the response, the review is in compliance with this section.*

Continue to the Worksheet Summary below.

☐ Yes.

→ *Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.*

3. Mitigation

Document the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental effects cannot be mitigated, then HUD assistance may not be used for the project at this site.

Can adverse environmental impacts be mitigated?

☐ Adverse environmental impacts cannot feasibly be mitigated

→ Project cannot proceed at this location.

☐ Yes, adverse environmental impacts can be eliminated through mitigation.

→ *Provide all mitigation requirements*[2] *and documents. Continue to Question 4.*

4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls[3]**, or use of institutional controls**[4]**.**

follow?

☐ Complete removal

[2] Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

[3] Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

[4] Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

→ *Continue to the Worksheet Summary.*

☐ Risk-based corrective action (RBCA)

→ *Continue to the Worksheet Summary.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

On March 1st, 2024, a search was conducted using NEPAssist. The NEPAssist map revealed that there are 8 RCRA facilities and 2 NPDES facilities within 3,000 feet of the Project. An archaeological Phase 1A study was conducted for the site on May 6, 2023. The study determined that the property retains its original use as a recreational public space, thus there is no evidence to suggest that the site had been previously used for commercial or industrial activity. Additionally, an Asbestos Containing Building Materials (ACBM) Inspection Report was conducted on July 28, 2022. The evaluation found no asbestos-containing materials during the inspection of the Project area. The site was found to be free of the presence of an environmental condition that may become a hazard. The proposed action involves work on a developed plaza. Photos of the site (See Appendix K) do not show any debris, distressed vegetation, or storage tanks. The HUD standard for radon is 4 picoCuries per liter (pCl/L) for residential buildings. Indoor Radon levels below this level are considered acceptable in homes. This project does not include a residence. There could be some mid-to-long-term occupancy (greater than 4 hours a day) at the kiosks, but they are open to the air during occupation. The PRDOH has determined that determining the property's radon levels is infeasible and impracticable. This Project complies with 24 CFR Part 50.3(i) & 58.5(i)(2). See the worksheet in Appendix A and Map B07 in Appendix B. Refer to the Phase 1A study in Appendix E and the ACBM Report in Appendix F. Additionally, consult the relevant NEPAssist reports and Memorandum to File and correspondence in Appendix G.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Endangered Species Worksheet

Endangered Species Act (CEST and EA)

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA) mandates that federal agencies ensure that actions that they authorize, fund, or carry out shall not jeopardize the continued existence of federally listed plants and animals or result in the adverse modification or destruction of designated critical habitat. Where their actions may affect resources protected by the ESA, agencies must consult with the Fish and Wildlife Service and/or the National Marine Fisheries Service ("FWS" and "NMFS" or "the Services").	The Endangered Species Act of 1973 (16 U.S.C. 1531 *et seq*.); particularly section 7 (16 USC 1536).	50 CFR Part 402
References		
https://www.hudexchange.info/environmental-review/endangered-species		

1. **Does the project involve any activities that have the potential to affect species or habitats?**

☐No, the project will have No Effect due to the nature of the activities involved in the project.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☒Yes, the activities involved in the project have the potential to affect species and/or habitats. → *Continue to Question 2.*

2. **Are federally listed species or designated critical habitats present in the action area?**

Obtain a list of protected species from the Services. This information is available on the FWS Website or you may contact your local FWS and/or NMFS offices directly.

☐No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation*

may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.

☒Yes, there are federally listed species or designated critical habitats present in the action area. → *Continue to Question 3.*

3. What effects, if any, will your project have on federally listed species or designated critical habitat?

☒No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

☒May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

→ *Continue to Question 4, Informal Consultation.*

☐Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

→ *Continue to Question 5, Formal Consultation.*

4. Informal Consultation is required

Section 7 of ESA (16 USC. 1536) mandates consultation to resolve potential impacts to endangered and threatened species and critical habitats. If a HUD-assisted project may affect any federally listed endangered or threatened species or critical habitat, then compliance is required with Section 7. See 50 CFR Part 402 Subpart B Consultation Procedures.

Did the Service(s) concur with the finding that the project is Not Likely to Adversely Affect?

☐Yes, the Service(s) concurred with the finding.

→ *Based on the response, the review is in compliance with this section. Continue to Question 6 and provide the following:*

(1) A biological evaluation or equivalent document
(2) Concurrence(s) from FWS and/or NMFS
(3) Any other documentation of informal consultation

Exception: If finding was made based on procedures provided by a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office, provide whatever documentation is mandated by that agreement.

☐No, the Service(s) did not concur with the finding. → *Continue to Question 5.*

5. **Formal consultation is required**
   Section 7 of ESA (16 USC 1536) mandates consultation to resolve potential impacts to federally listed endangered and threatened species and critical habitats. If a HUD assisted project may affect any endangered or threatened species or critical habitat, then compliance is required with Section 7. See 50 CFR Part 402 Subpart B Consultation Procedures.

   → *Once consultation is complete, the review is in compliance with this section. Continue to Question 6 and provide the following:*
   (1) A biological assessment, evaluation, or equivalent document
   (2) Biological opinion(s) issued by FWS and/or NMFS
   (3) Any other documentation of formal consultation

6. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the proposed measures that will be implemented to mitigate for the impact or effect, including the timeline for implementation.**
   ☐Mitigation as follows will be implemented:

   ☐No mitigation is necessary.
   Explain why mitigation will not be made here:

<u>Worksheet Summary</u>

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

In compliance with Section 7 of the Endangered Species Act (16 USC. 1536), an informal consultation was conducted to assess potential impacts on endangered and threatened species and critical habitats. The consultation was sent to the USFWS on April 5, 2023, and a response from the agency is pending. The consultation included a comprehensive assessment of species listed in the US Fish & Wildlife Service's (USFWS) Integrated Planning and Consultation (IPaC) report. The IPaC report listed the following species: Puerto Rican Boa (*Chilabothrus inornatus*), the Caribbean Manatee (*Trichechus manatus*), the Bariaco (*Trichilia triacantha*) plant and the Yellow-shouldered Blackbird (*Agelaius xanthomus*).
According to the USFWS's determination, the Project will have a determination impact of No Effect on the Puerto Rican Boa (*Chilabothrus inornatus*), the West Indian Manatee (*Trichechus manatus*) and the Bariaco (*Trichilia triacantha*) plant; and a determination of Not Likely to Adversely Effect on the Yellow-shouldered Blackbird (*Agelaius xanthomus*). As a mitigation measure for the Yellow-shouldered Blackbird, a Tree Inventory and Tree Mitigation Plan has been formulated. Additionally, the USFWS documents required for the informal consultation have been submitted to the program, signed by a biologist. This Project complies with the Endangered Species Act of 1973 (section 7). See worksheet in Appendix A. Additionally, other relevant documents including the Biological Assessment, Tree Inventory and Mitigation Plan, IPaC Report, and General Project Design Guidelines are also included in Appendix H for comprehensive reference.

Are formal compliance steps or mitigation required?

☒ Yes

☐ No

Explosive and Flammable Hazards Worksheet

Explosive and Flammable Hazards (CEST and EA)

General requirements	Legislation	Regulation
HUD-assisted projects must meet Acceptable Separation Distance (ASD) requirements to protect them from explosive and flammable hazards.	N/A	24 CFR Part 51 Subpart C
Reference		
https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities		

1. **Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

   ☒ No

   → *Continue to Question 2.*

   ☐ Yes

   Explain:

   → *Go directly to Question 5.*

2. **Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?**

   ☒ No

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☐ Yes

   → *Continue to Question 3.*

3. **Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:**
   - **Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR**
   - **Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 version of National Fire Protection Association (NFPA) Code 58.**

   If all containers within the search area fit the above criteria, answer "no." For any other type of aboveground storage container within the search area that holds one of the

flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer "yes."

☐ No

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.*

☐ Yes

→ *Continue to Question 4.*

4. **Visit HUD's website to identify the appropriate tank or tanks to assess and to calculate the required separation distance using the electronic assessment tool. To document this step in the analysis, please attach the following supporting documents to this screen:**
   - **Map identifying the tank selected for assessment, and showing the distance from the tank to the proposed HUD-assisted project site; and**
   - **Electronic assessment tool calculation of the required separation distance.**

   Based on the analysis, is the proposed HUD-assisted project site located at or beyond the required separation distance from all covered tanks?

   ☐ Yes

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☐ No

   → *Go directly to Question 6.*

5. **Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?**

   Please visit HUD's website for information on calculating Acceptable Separation Distance.

   ☐ Yes

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.*

   ☐ No

   → *Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.*
   Continue to Question 6.

6. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Mitigation measures may include both natural and manmade barriers, modification of the project design, burial or removal of the hazard, or other engineered solutions. Describe selected mitigation measures, including the timeline for implementation, and attach an implementation plan. If negative effects cannot be mitigated, cancel the project at this location.**
   Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The project itself does not involve the establishment of a hazardous facility, and it will not entail activities that result in higher residential densities or conversions. The Project complies with 24 CFR Part 51 Subpart C. See worksheet in Appendix A and the Interdisciplinary Survey Drawings in Appendix I.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Farmlands Protection Worksheet

Farmlands Protection (CEST and EA)

General requirements	Legislation	Regulation
The Farmland Protection Policy Act (FPPA) discourages federal activities that would convert farmland to nonagricultural purposes.	Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 et seq.)	7 CFR Part 658
Reference		
https://www.hudexchange.info/environmental-review/farmlands-protection		

1. **Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?**

   ☐Yes → *Continue to Question 2.*

   ☒No

   Explain how you determined that agricultural land would not be converted:

   The project is within an area classified as Urban Soil (SU). No agricultural land will be affected.

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting your determination.*

2. **Does "important farmland," including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?**

   You may use the links below to determine important farmland occurs on the project site:

   - Utilize USDA Natural Resources Conservation Service's (NRCS) Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm
   - Check with your city or county's planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
   - Contact NRCS at the local USDA service center http://offices.sc.egov.usda.gov/locator/app?agency=nrcs or your NRCS state soil scientist http://soils.usda.gov/contact/state_offices/ for assistance

   ☐No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

   ☐Yes → *Continue to Question 3.*

3. **Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.**
   - Complete form **AD-1006**, "Farmland Conversion Impact Rating" http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045394.pdf and contact the state soil scientist before sending it to the local NRCS District Conservationist.
     (NOTE: for corridor type projects, use instead form **NRCS-CPA-106**, "Farmland Conversion Impact Rating for Corridor Type Projects: http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045395.pdf.)
   - Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 (or form NRCS-CPA-106 if applicable) to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

Document your conclusion:

☐Project will proceed with mitigation.

Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

☐Project will proceed without mitigation.

Explain why mitigation will not be made here:

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

This Project does not include activities that could potentially convert vacant land that could be used for agricultural purposes to non-agricultural use. The Project is in an area classified as SU (Urban Soil). No agricultural land will be affected. According to the zoning map of Puerto Rico, there are no agricultural activities. The type of soil that could be affected is Urban Land. Therefore, the Project complies with the Farmland Protection Policy Act (sections 1504(b) and 1541). See worksheet in Appendix A and Maps B08 and B09 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Floodplain Management Worksheet

Floodplain Management (CEST and EA)

General Requirements	Legislation	Regulation
Executive Order 11988, Floodplain Management, requires Federal activities to avoid impacts to floodplains and to avoid direct and indirect support of floodplain development to the extent practicable.	Executive Order 11988	24 CFR 55
Reference		
https://www.hudexchange.info/environmental-review/floodplain-management		

1. **Does 24 CFR 55.12(c) exempt this project from compliance with HUD's floodplain management regulations in Part 55?**

   ☐ Yes

   Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(7) or (8), provide supporting documentation.

   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☒ No → *Continue to Question 2.*

2. **Provide a FEMA/FIRM or ABFE map showing the site.**

   The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs) or Advisory Base Flood Elevations (ABFEs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site.

   Does your project occur in a floodplain?

   ☐ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☒ Yes

   Select the applicable floodplain using the FEMA map or the best available information:

   ☐ Floodway → *Continue to Question 3, Floodways*

☐ Coastal High Hazard Area (V Zone) → *Continue to Question 4, Coastal High Hazard Areas*

☐ 500-year floodplain (B Zone or shaded X Zone) → *Continue to Question 5, 500-year Floodplains*

☒ 100-year floodplain (A Zone) → *The 8-Step Process is required. Continue to Question 6, 8-Step Process*

3. <u>Floodways</u>

Is this a functionally dependent use?

☐ Yes

<u>The 8-Step Process is required.</u> Work with your HUD FEO to determine a way to satisfactorily continue with this project. Provide a completed 8-Step Process, including the early public notice and the final notice.

→*Continue to Question 6, 8-Step Process*

☐ No

<u>Federal assistance may not be used at this location *unless a 55.12(c) exception applies*. You must either choose an alternate site or cancel the project at this location.</u>

4. <u>Coastal High Hazard Area</u>

Is this a critical action?

☐ Yes

<u>Critical actions are prohibited in coastal high hazard areas. Federal assistance may not be used at this location. Unless the action is excepted at 24 CFR 55.12(c), you must either choose an alternate site or cancel the project.</u>

☐ No

Does this action include construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?

☐ Yes, there is new construction.

<u>New construction is prohibited in V Zones ((24 CFR 55.1(c)(3)).</u>

☐ No, this action concerns only a functionally dependent use, existing construction(including improvements), or reconstruction following destruction caused by a disaster.

This construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.

→ *Continue to Question 6, 8-Step Process*

5. **500-year Floodplain**

Is this a critical action?

☐ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☐Yes → *Continue to Question 6, 8-Step Process*

6. **8-Step Process**.

Does the 8-Step Process apply? Select one of the following options:

☒ 8-Step Process applies.

Provide a completed 8-Step Process, including the early public notice and the final notice.

→ *Continue to Question 7, Mitigation*

☐ 5-Step Process is applicable per 55.12(a)(1-3).

Provide documentation of 5-Step Process.

Select the applicable citation:

☐ *55.12(a)(1)* HUD actions involving the disposition of HUD-acquired multifamily housing projects or "bulk sales" of HUD-acquired one- to four-family properties in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24).

☐ *55.12(a)(2)* HUD's actions under the National Housing Act (12 U.S.C. 1701) for the purchase or refinancing of existing multifamily housing projects, hospitals, nursing homes, assisted living facilities, board and care facilities, and intermediate care facilities, in communities that are in good standing under the NFIP.

☐ *55.12(a)(3)* HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, modernization, weatherization, or improvement of existing multifamily housing projects, hospitals, nursing homes, assisted living facilities, board and care facilities, intermediate care facilities, and one- to four-family properties, in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and are in good standing, provided that the number of units is not increased more than 20 percent, the action does not involve a conversion from nonresidential to residential land use, the action does not meet the thresholds for "substantial improvement" under § 55.2(b)(10), and the footprint of the structure and paved areas is not significantly increased.

☐ *55.12(a)(4)* HUD's (or the recipient's) actions under any HUD program involving the repair, rehabilitation, modernization, weatherization, or improvement of existing nonresidential buildings and structures, in communities that are in the

Regular Program of the NFIP and are in good standing, provided that the action does not meet the thresholds for "substantial improvement" under § 55.2(b)(10) and that the footprint of the structure and paved areas is not significantly increased.

→ *Continue to Question 7, Mitigation*

☐ 8-Step Process is inapplicable per 55.12(b)(1-4).

Select the applicable citation:

☐ *55.12(b)(1)* HUD's mortgage insurance actions and other financial assistance for the purchasing, mortgaging or refinancing of existing one- to four-family properties in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24), where the action is not a critical action and the property is not located in a floodway or coastal high hazard area.

☐ *55.12(b)(2)* Financial assistance for minor repairs or improvements on one- to four-family properties that do not meet the thresholds for "substantial improvement" under § 55.2(b)(10)

☐ *55.12(b)(3)* HUD actions involving the disposition of individual HUD-acquired, one- to four-family properties.

☐ *55.12(b)(4)* HUD guarantees under the Loan Guarantee Recovery Fund Program (24 CFR part 573) of loans that refinance existing loans and mortgages, where any new construction or rehabilitation financed by the existing loan or mortgage has been completed prior to the filing of an application under the program, and the refinancing will not allow further construction or rehabilitation, nor result in any physical impacts or changes except for routine maintenance.

☐ *55.12(b)(5)* The approval of financial assistance to lease an existing structure located within the floodplain, but only if—

(i) The structure is located outside the floodway or Coastal High Hazard Area, and is in a community that is in the Regular Program of the NFIP and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24);

(ii) The project is not a critical action; and

(iii) The entire structure is or will be fully insured or insured to the maximum under the NFIP for at least the term of the lease.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

7. <u>Mitigation</u>

For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

The proposed action includes the implementation of an emergency protocol and the acquisition and maintenance of flood insurance. It will involve the use of permeable surfaces, enhancements to the natural landscape to preserve or restore natural hydrology, planting or restoring native plant species, incorporating bioswales, promoting evapotranspiration, adopting stormwater capture and reuse practices, floodproofing structures, and elevating structures with freeboard above the required base flood elevations. Additionally, the footprint will be designed to minimize these impacts.

Which of the following mitigation/minimization measures have been identified for this project in the 8-Step or 5-Step Process? Select all that apply.

- ☒ Permeable surfaces
- ☒ Natural landscape enhancements that maintain or restore natural hydrology
- ☒ Planting or restoring native plant species
- ☒ Bioswales
- ☒ Evapotranspiration
- ☒ Stormwater capture and reuse
- ☐ Green or vegetative roofs with drainage provisions
- ☐ Natural Resources Conservation Service conservation easements or similar easements
- ☒ Floodproofing of structures
- ☒ Elevating structures including freeboarding above the required base flood elevations
- ☒ Other

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The Project area is subject to the 100-year flood (or the 1 percent annual chance of flooding. An 8-step decision-making process was completed. The Flood Insurance Rate FIRM Map (72000C1960J) identifies the Project area as an "AE" Zone. The project encompasses 0.94 acres, all of which are located within the AE Zone representing the 100-year floodplain. The Flooding Determination number 2023-00-JDI-6275 concurs with the area identification on the FIRM Map. On April 9, 2024, a Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain was sent to the Puerto Rico Planning Board for comments. A reply is currently pending. The Project complies with Executive Order 11988 (section 2(a)). Refer to the worksheet in Appendix A and Map B10 in Appendix B. Additionally, consult the 8-step process outlined in Appendix J.

Are formal compliance steps or mitigation required?

☒ Yes

☐ No

Historic Preservation Worksheet

Historic Preservation (CEST and EA)

General requirements	Legislation	Regulation
Regulations under Section 106 of the National Historic Preservation Act (NHPA) require a consultative process to identify historic properties, assess project impacts on them, and avoid, minimize, or mitigate adverse effects	Section 106 of the National Historic Preservation Act (16 U.S.C. 470f)	36 CFR 800 "Protection of Historic Properties"
References		
https://www.hudexchange.info/environmental-review/historic-preservation		

Threshold

Is Section 106 review required for your project?

☐ No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.)
Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:

→ *Continue to the Worksheet Summary.*

☒ No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].
Either provide the memo itself or a link to it here. Explain and justify the other determination here:

On May 6, 2023, a comprehensive survey of the entire Project area was conducted for the Phase 1A archaeological evaluation, revealing no archaeological evidence within the site, likely obscured by existing constructions, which will be further explored during construction monitoring activities (Appendix E). Additionally, on On June 13, 2023, a Section 106 NHPA Effect Determination of No Adverse Effect for architecture was submitted for review through Secretary of the Interior (SOI) Qualified Professionals.

→ *Continue to the Worksheet Summary.*

☐Yes, because the project includes activities with potential to cause effects (direct or indirect). → *Continue to Step 1.*

The Section 106 Process
After determining the need to do a Section 106 review, initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.
Note that consultation continues through all phases of the review.
Step 1: Initiate consultation
Step 2: Identify and evaluate historic properties
Step 3: Assess effects of the project on historic properties
Step 4: Resolve any adverse effects

Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the When To Consult With Tribes checklist within Notice CPD-12-006: Process for Tribal Consultation to determine if you should invite tribes to consult on a particular project. Use the Tribal Directory Assessment Tool (TDAT) to identify tribes that may have an interest in the area where the project is located. Note that consultants may not initiate consultation with Tribes.

Select all consulting parties below (check all that apply):

☐State Historic Preservation Officer (SHPO)
☐Advisory Council on Historic Preservation
☐Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native
☐Hawaiian Organizations (NHOs)

List all tribes that were consulted here and their status of consultation:

☐Other Consulting Parties

List all consulting parties that were consulted here and their status of consultation:

Describe the process of selecting consulting parties and initiating consultation here:

Provide all correspondence, notices, and notes (including comments and objections received) and continue to Step 2.

Step 2 - Identify and Evaluate Historic Properties

Define the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE. Attach an additional page if necessary.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register.
Refer to HUD's website for guidance on identifying and evaluating historic properties.

In the space below, list historic properties identified and evaluated in the APE.
Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.

Was a survey of historic buildings and/or archeological sites done as part of the project?
If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, Guidance on Archeological Investigations in HUD Projects.

☐ Yes → *Provide survey(s) and report(s) and continue to Step 3.*
Additional notes:

☐ No → *Continue to Step 3.*

Step 3 - Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5)] Consider direct and indirect effects as applicable as per HUD guidance.

Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

☐ No Historic Properties Affected
Document reason for finding:

☐ No historic properties present. → *Provide concurrence(s) or objection(s) and continue to the Worksheet Summary.*

☐ Historic properties present, but project will have no effect upon them. → *Provide concurrence(s) or objection(s) and continue to the Worksheet Summary.*

If consulting parties concur or fail to respond to user's request for concurrence, project is in compliance with this section. No further review is required. If consulting parties object, refer to (36 CFR 800.4(d)(1)) and consult further to try to resolve objection(s).

☐ No Adverse Effect

Document reason for finding:

Does the No Adverse Effect finding contain conditions?

☐ Yes

Check all that apply: (check all that apply)

- ☐ Avoidance
- ☐ Modification of project
- ☐ Other

Describe conditions here:

→ *Monitor satisfactory implementation of conditions. Provide concurrence(s) or objection(s) and continue to the Worksheet Summary.*

☐ No → *Provide concurrence(s) or objection(s) and continue to the Worksheet Summary.*

If consulting parties concur or fail to respond to user's request for concurrence, project is in compliance with this section. No further review is required. If consulting parties object, refer to (36 CFR 800.5(c)(2)) and consult further to try to resolve objection(s).

☐ Adverse Effect

Document reason for finding:

Copy and paste applicable Criteria into text box with summary and justification. Criteria of Adverse Effect: 36 CFR 800.5]

Notify the Advisory Council on Historic Preservation of the Adverse Effect and provide the documentation outlined in 36 CFR 800.11(e). The Council has 15 days to decide whether to enter the consultation (Not required for projects covered by a Programmatic Agreement).

→ *Continue to Step 4.*

Step 4 - Resolve Adverse Effects

Work with consulting parties to try to avoid, minimize or mitigate adverse effects. Refer to HUD guidance and 36 CFR 800.6 and 800.7.

Were the Adverse Effects resolved?

☐ Yes

Describe the resolution of Adverse Effects, including consultation efforts and participation by the Advisory Council on Historic Preservation:

For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Provide signed Memorandum of Agreement (MOA) or Standard Mitigation Measures Agreement (SMMA). Continue to the Worksheet Summary.*

☐ No

The project must be cancelled unless the "Head of Agency" approves it. Either provide approval from the "Head of Agency" or cancel the project at this location.

Describe the failure to resolve Adverse Effects, including consultation efforts and participation by the Advisory Council on Historic Preservation and "Head of the Agency":

Explain in detail the exact conditions or measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Provide correspondence, comments, documentation of decision, and "Head of Agency" approval. Continue to the Worksheet Summary.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

On May 6, 2023, a Phase 1A archaeological evaluation was conducted (Appendix E), revealing no archaeological evidence within the site, likely obscured by existing constructions, which will be further explored during construction monitoring activities. The evaluation indicates the presence of three archaeological assets near the project area, which correspond to the San Antonio Abad Parish, the Museum of Art and History, and the James Garfield School. These three structures are physically separate from the Plaza area, which is why the evaluation determined that the proposed project will not impact to them. On June 13, 2023, a Section 106 NHPA Effect Determination consultation on architecture was submitted for review through the Secretary of the Interior (SOI) Qualified Professionals, where the Puerto Rico Department of Housing requests that State Historic Preservation Office (SHPO) concur that the following determination of No Adverse Effect is appropriate for the undertaking. On June 26, 2024, an acknowledgment receipt of the archaeological monitoring work plan was received, and it was accepted by SHPO. The Project complies with the National Historic Preservation Act of 1966, that is, sections 106 and 110. See the worksheet in Appendix A, and Maps B11 and B12 in Appendix B. Refer to Appendix K to see the Section 106 Compliance Report, the Monitoring Plan, and the Acceptance Letter.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Noise Abatement and Control Worksheet

Noise (EA Level Reviews)

General requirements	Legislation	Regulation
HUD's noise regulations protect residential properties from excessive noise exposure. HUD encourages mitigation as appropriate.	Noise Control Act of 1972 General Services Administration Federal Management Circular 75-2: "Compatible Land Uses at Federal Airfields"	Title 24 CFR 51 Subpart B
References		
https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control		

1. **What activities does your project involve? Check all that apply:**

☐ New construction for residential use
NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.
→ *Continue to Question 2.*

☐ Rehabilitation of an existing residential property
NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.
→ *Continue to Question 2.*

☐ A research demonstration project which does not result in new construction or reconstruction, interstate, land sales registration, or any timely emergency assistance under disaster assistance provisions or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster
→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☒ None of the above
→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

2. **Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport). Indicate the findings of the Preliminary Screening below:**

☐ There are no noise generators found within the threshold distances above.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.*

☐ Noise generators were found within the threshold distances.

→ *Continue to Question 3.*

3. **Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment below:**

☐ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: ☐

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including noise level and data used to complete the analysis.*

☐ Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a))

Indicate noise level here: ☐

<u>If project is rehabilitation:</u>

→ *Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.*

<u>If project is new construction:</u>

Is the project in a largely undeveloped area[1]?

☐ No

→ *Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.*

[1] A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses or does not have water and sewer capacity to serve the project.

☐ Yes

→*Your project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Elevate this review to an EIS-level review.*

☐ Unacceptable: (Above 75 decibels)

Indicate noise level here: [ ]

If project is rehabilitation:

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels. Consider converting this property to a non-residential use compatible with high noise levels.

→ *Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.*

If project is new construction:

Your project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). You may either complete an EIS or provide a waiver signed by the appropriate authority. Indicate your choice:

☐ Convert to an EIS

→ *Provide noise analysis, including noise level and data used to complete the analysis.*

Continue to Question 4.

☐ Provide waiver

→ *Provide an Environmental Impact Statement waiver from the Certifying Officer or the Assistant Secretary for Community Planning and Development per 24 CFR 51.104(b)(2) and noise analysis, including noise level and data used to complete the analysis.*

Continue to Question 4.

4. **HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review.**

☐ Mitigation as follows will be implemented:

→ *Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures. Continue to the Worksheet Summary.*

☐ No mitigation is necessary.

Explain why mitigation will not be made here:

→ *Continue to the Worksheet Summary.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

The Project consists of the restoration of a non-residential complex. The closest residence is located approximately 213.8 feet (0.04 miles) from the project site. The Puerto Rico Department of Natural and Environmental Resources (PRDNER) regulates noise pollution through the Noise Pollution Control Regulations of 2011. During the construction phase of the Project, noise levels may increase for short periods but would not exceed the regular noise levels' thresholds applicable to residential and commercial receiving areas. The noise exposure limit for residential receiving areas is 60 dB(A) during the day and at night is 50 dB(A). During the day, the threshold for commercial receiving areas is 65 dB(A), and at night is 55 dB(A). The Project complies with the Noise Control Act of 1972, as amended. See worksheet in Appendix A and Map B13 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Sole Source Aquifers Worksheet

Sole Source Aquifers (CEST and EA)

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974 protects drinking water systems which are the sole or principal drinking water source for an area and which, if contaminated, would create a significant hazard to public health.	Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300f et seq., and 21 U.S.C. 349)	40 CFR Part 149
Reference		
https://www.hudexchange.info/environmental-review/sole-source-aquifers		

1. **Does your project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**

   ☐Yes → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☒No → *Continue to Question 2.*

2. **Is the project located on a sole source aquifer (SSA)[1]?**

   ☒No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project (or jurisdiction, if appropriate) in relation to the nearest SSA and its source area.*

   ☐Yes → *Continue to Question 3.*

3. **Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?**

   Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

   ☐Yes → *Provide the MOU or agreement as part of your supporting documentation. Continue to Question 4.*

   ☐No → *Continue to Question 5.*

4. **Does your MOU or working agreement exclude your project from further review?**

   ☐Yes → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

[1] A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

☐No → *Continue to Question 5.*

5. **Will the proposed project contaminate the aquifer and create a significant hazard to public health?**

   Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

   ☐No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination*.

   ☐Yes → *Work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. <u>If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied.</u> Continue to Question 6.*

6. **In order to continue with the project, any threat must be mitigated, and all mitigation must be approved by the EPA. Explain in detail the proposed measures that can be implemented to mitigate for the impact or effect, including the timeline for implementation.**

   → *Continue to the Worksheet Summary below. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

There are no Sole Source Aquifers in or near the Project. However, it is worth noting that the Project area falls within the Alluvial Valley aquifer. According to the USGS, the Alluvial Valley aquifers are unconsolidated sand and gravel aquifers that represent important local sources of groundwater in Puerto Rico. The permeability of alluvial aquifers in Puerto Rico is relatively high, and their spatial extent is comparatively limited. The Project complies with the Safe Drinking Water Act (section 1424(e)). See worksheet in Appendix A and Maps B14 and B15 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Wetlands Protection Worksheet

Wetlands (CEST and EA)

General requirements	Legislation	Regulation
Executive Order 11990 discourages that direct or indirect support of new construction impacting wetlands wherever there is a practicable alternative. The Fish and Wildlife Service's National Wetlands Inventory can be used as a primary screening tool, but observed or known wetlands not indicated on NWI maps must also be processed. Off-site impacts that result in draining, impounding, or destroying wetlands must also be processed.	Executive Order 11990	24 CFR 55.20 can be used for general guidance regarding the 8 Step Process.
References		
https://www.hudexchange.info/environmental-review/wetlands-protection		

1. **Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance?**
   The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order.

   ☒ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

   ☐ Yes → *Continue to Question 2.*

2. **Will the new construction or other ground disturbance impact an on- or off-site wetland?**
   The term "wetlands" means those areas that are inundated by surface or ground water with a frequency sufficient to support, and under normal circumstances does or would support, a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Wetlands generally include swamps, marshes, bogs, and similar areas such as sloughs, potholes, wet meadows, river overflows, mud flats, and natural ponds. Wetlands under E.O. 11990 include isolated and non-jurisdictional wetlands.

   ☐ No, a wetland will not be impacted in terms of E.O. 11990's definition of new construction.
   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

   ☐ Yes, there is a wetland that be impacted in terms of E.O. 11990's definition of new construction.

→*You must determine that there are no practicable alternatives to wetlands development by completing the 8-Step Process.*
Provide a completed 8-Step Process as well as all documents used to make your determination, including a map. Be sure to include the early public notice and the final notice with your documentation.
Continue to Question 3.

3. **For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

Which of the following mitigation actions have been or will be taken? Select all that apply:

- ☐ Permeable surfaces
- ☐ Natural landscape enhancements that maintain or restore natural hydrology through infiltration
- ☐ Native plant species
- ☐ Bioswales
- ☐ Evapotranspiration
- ☐ Stormwater capture and reuse
- ☐ Green or vegetative roofs with drainage provisions
- ☐ Natural Resources Conservation Service conservation easements
- ☐ Compensatory mitigation

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

Within the Project area, no wetlands are present, thus no wetlands will be affected by the Project activities. It is important to note that this area has already experienced previous impacts, as it is used as a public space for visitors and residents visiting the recreational space and has also been affected by previous remodeling projects. According to our technical analysis of all collected and available information, our project does not require a Jurisdictional Wetland Assessment. See worksheet in Appendix A and Map B16 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Wild and Scenic Rivers Worksheet

Wild and Scenic Rivers (CEST and EA)

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297
References		
https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers		

1. **Is your project within proximity of a NWSRS river as defined below?**
   Wild & Scenic Rivers: These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational
   Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.
   Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

   ☒ No
   → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.*

   ☐ Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.
   → *Continue to Question 2.*

2. **Could the project do *any* of the following?**
   - Have a direct and adverse effect within Wild and Scenic River Boundaries,
   - Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
   - Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.
Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

☐ No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

☐ Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *Continue to Question 3.*

3. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

→ *Continue to the Worksheet Summary below. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

According to the National Wild and Scenic Rivers System list, the Project is not within the proximity of an NWSRS river. The nearest distance to a NWSRS river is approximately 76.25 miles to the Icacos River. The nearest waterbodies are the Hoya El Ber River, located at 1,318.72 meters; and the Loco River, at 1,332.76 meters. These rivers will not be impacted nor affected by the development of the proposed project. See worksheet in Appendix A and Map B17 in Appendix B.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

Environmental Justice Worksheet

Appendix B: Maps

Map B01



Distance to Mercedita International Airport

Civilian Airport

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

https://nepassisttool.epa.gov/

N

Scale: 1:600,000

Map B02



Distance to Luis Muñoz Marín International Airport

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

Military Airport

https://nepassisttool.epa.gov/

Scale: 1:600,000

Map B03

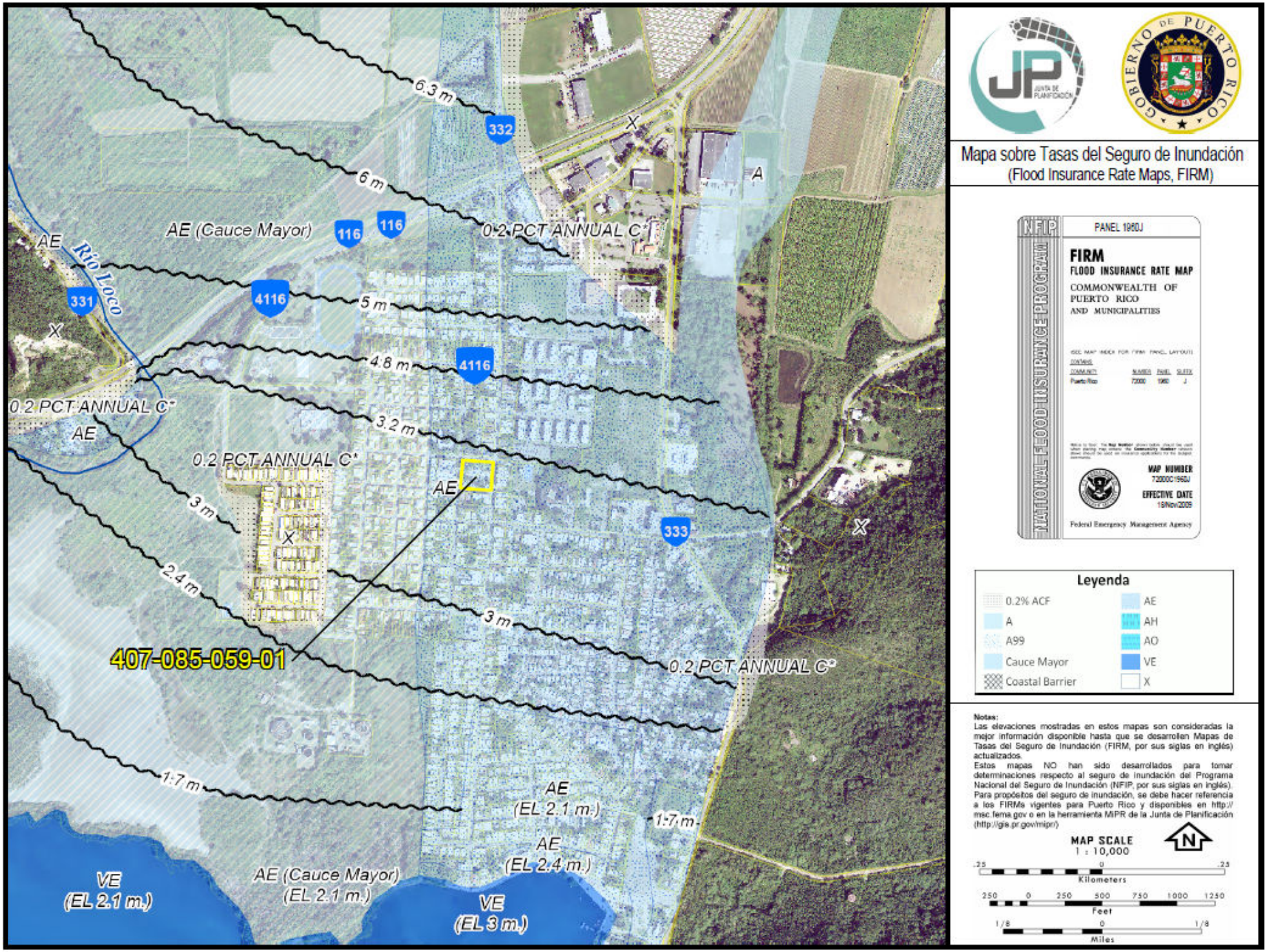


Nearest Distance to a CBRS Unit

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC
https://www.fws.gov/media/digital-coastal-barrier-resources-system-boundaries

Scale: 1:22,400

Map B04



Mapa sobre Tasas del Seguro de Inundación
(Flood Insurance Rate Maps, FIRM)

Leyenda

0.2% ACF	AE
A	AH
A99	AO
Cauce Mayor	VE
Coastal Barrier	X

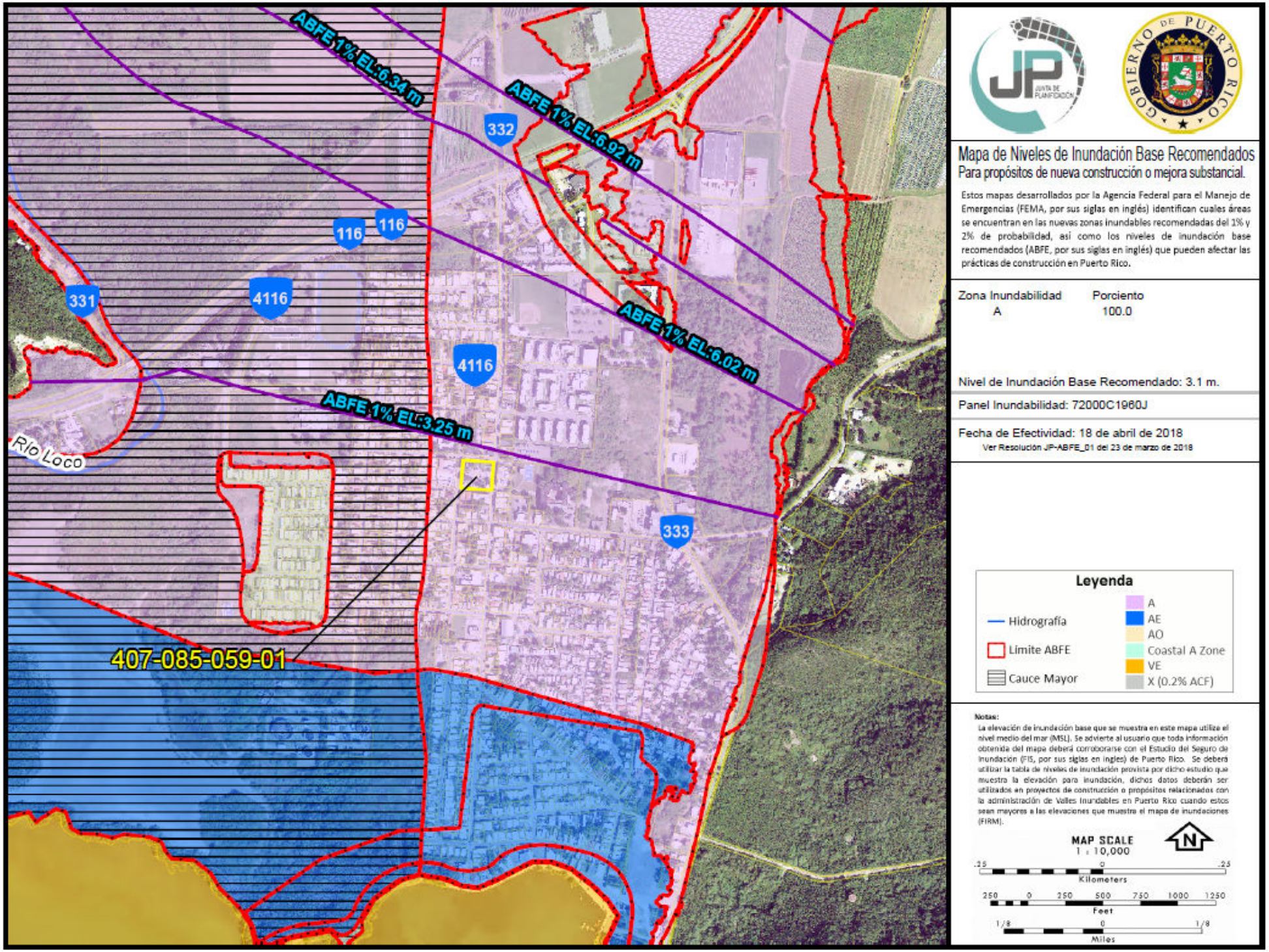
Notas:
Las elevaciones mostradas en estos mapas son consideradas la mejor información disponible hasta que se desarrollen Mapas de Tasas del Seguro de Inundación (FIRM, por sus siglas en inglés) actualizados.
Estos mapas NO han sido desarrollados para tomar determinaciones respecto al seguro de inundación del Programa Nacional del Seguro de Inundación (NFIP, por sus siglas en inglés). Para propósitos del seguro de inundación, se debe hacer referencia a los FIRMs vigentes para Puerto Rico y disponibles en http://msc.fema.gov o en la herramienta MiPR de la Junta de Planificación (http://gis.pr.gov/mipr/).

MAP SCALE
1 : 10,000

.25 0 .25
Kilometers
250 0 250 500 750 1000 1250
Feet
1/8 0 1/8
Miles

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

Map B05



Mapa de Niveles de Inundación Base Recomendados
Para propósitos de nueva construcción o mejora substancial.

Estos mapas desarrollados por la Agencia Federal para el Manejo de Emergencias (FEMA, por sus siglas en inglés) identifican cuales áreas se encuentran en las nuevas zonas inundables recomendadas del 1% y 2% de probabilidad, así como los niveles de inundación base recomendados (ABFE, por sus siglas en inglés) que pueden afectar las prácticas de construcción en Puerto Rico.

Zona Inundabilidad	Porciento
A	100.0

Nivel de Inundación Base Recomendado: 3.1 m.

Panel Inundabilidad: 72000C1960J

Fecha de Efectividad: 18 de abril de 2018
Ver Resolución JP-ABFE_01 del 23 de marzo de 2018

Leyenda

- Hidrografía
- Límite ABFE
- Cauce Mayor
- A
- AE
- AO
- Coastal A Zone
- VE
- X (0.2% ACF)

Notas:
La elevación de inundación base que se muestra en este mapa utiliza el nivel medio del mar (MSL). Se advierte al usuario que toda información obtenida del mapa deberá corroborarse con el Estudio del Seguro de Inundación (FIS, por sus siglas en inglés) de Puerto Rico. Se deberá utilizar la tabla de niveles de inundación provista por dicho estudio que muestra la elevación para inundación, dichos datos deberán ser utilizados en proyectos de construcción o propósitos relacionados con la administración de Valles Inundables en Puerto Rico cuando estos sean mayores a las elevaciones que muestra el mapa de inundaciones (FIRM).

MAP SCALE
1 : 10,000

.25 0 .25
Kilometers

250 0 250 500 750 1000 1250
Feet

1/8 0 1/8
Miles

PR-CRP-000823
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

Map B06



Coastal Conservation Zone Map

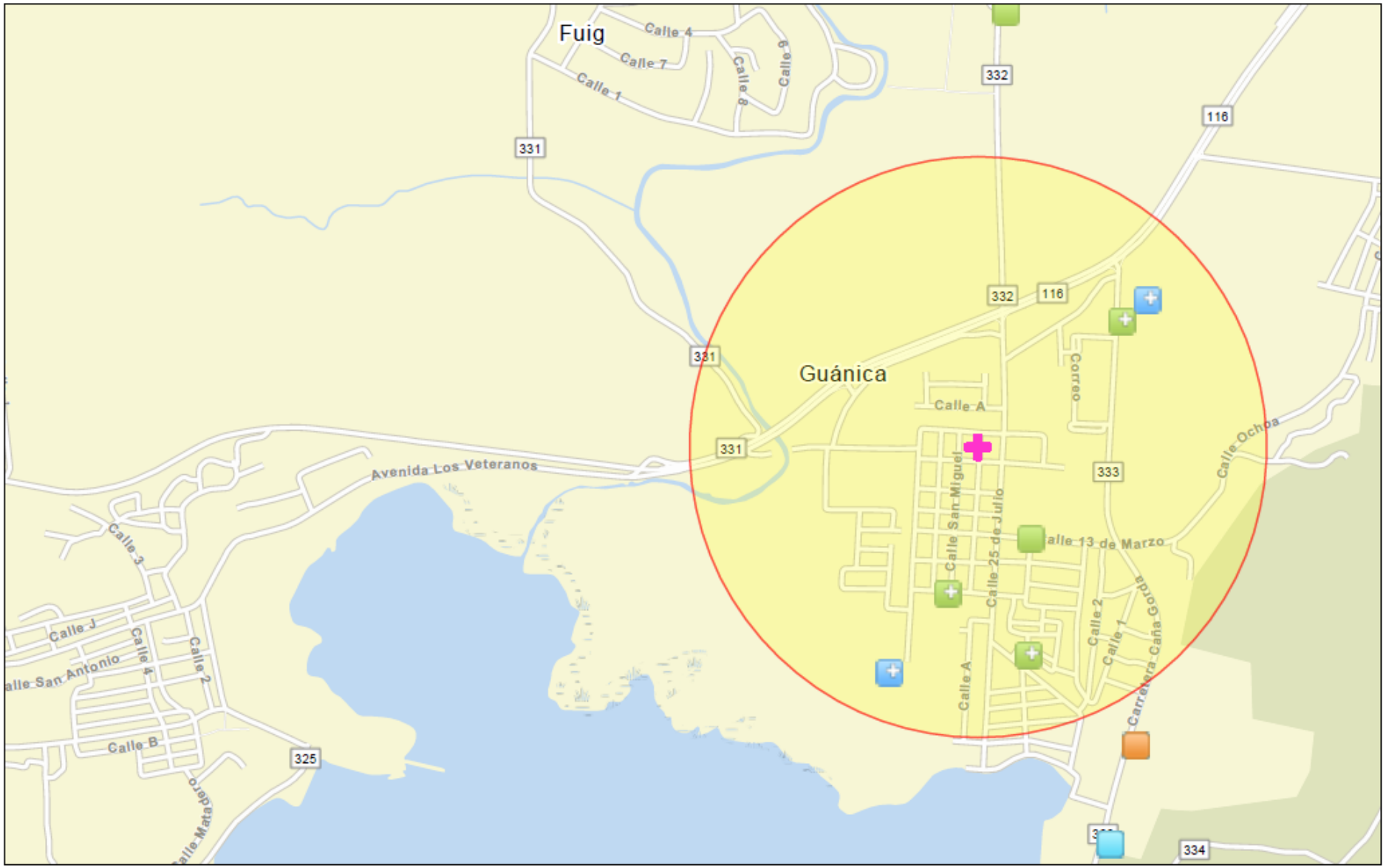
PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

https://www.arcgis.com/

Scale: 1:20,000

Map B07

Contamination and Toxics Sites Map



March 13, 2024

1:18,056

0 0.13 0.25 0.5 mi

0 0.23 0.45 0.9 km

Esri Community Maps Contributors, Kadaster Netherlands, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS,

- Superfund (NPL)
- Toxic Releases (TRI)
- Water Dischargers (NPDES)
- Water Dischargers (NPDES)
- Air Pollution (ICIS-AIR)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Project Buffer
- Search Result (point)

PR-CRP-000823 17.972383, -66.90786

Plaza Manuel Jiménez Mesa Reconstruction

JGP Group PSC

https://nepassisttool.epa.gov/

N

Map B08



Zoning Map

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

N

Scale: 1:1,000

Map B09



Map Scale: 1:530 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 5 10 20 30

Feet: 0 25 50 100 150

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

MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: San German Area, Southwestern Puerto Rico
Survey Area Data: Version 15, Sep 13, 2023

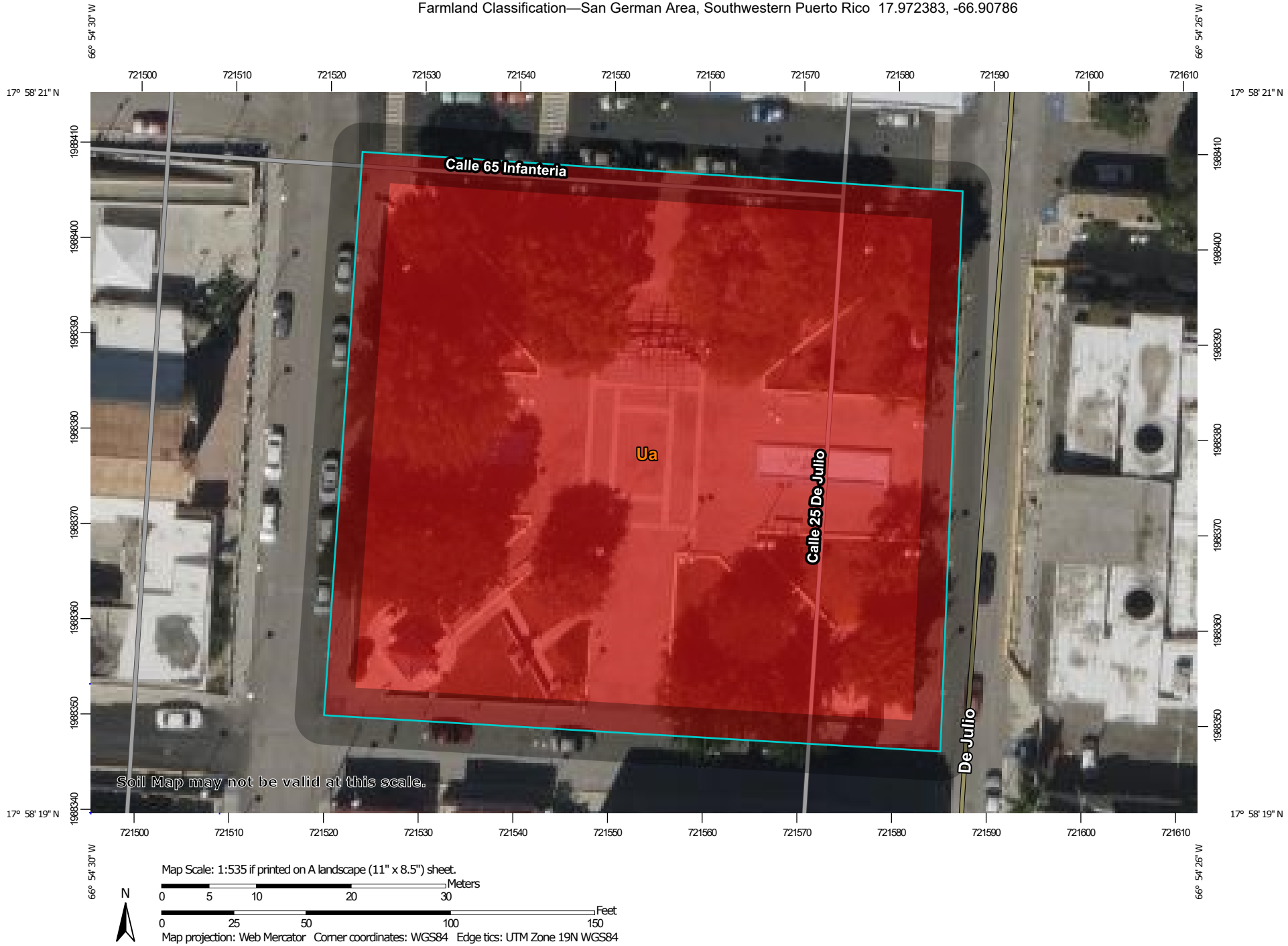
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ua	Urban land	0.9	100.0%
Totals for Area of Interest		**0.9**	**100.0%**



Map Scale: 1:535 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 5 10 20 30

Feet
0 25 50 100 150

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

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

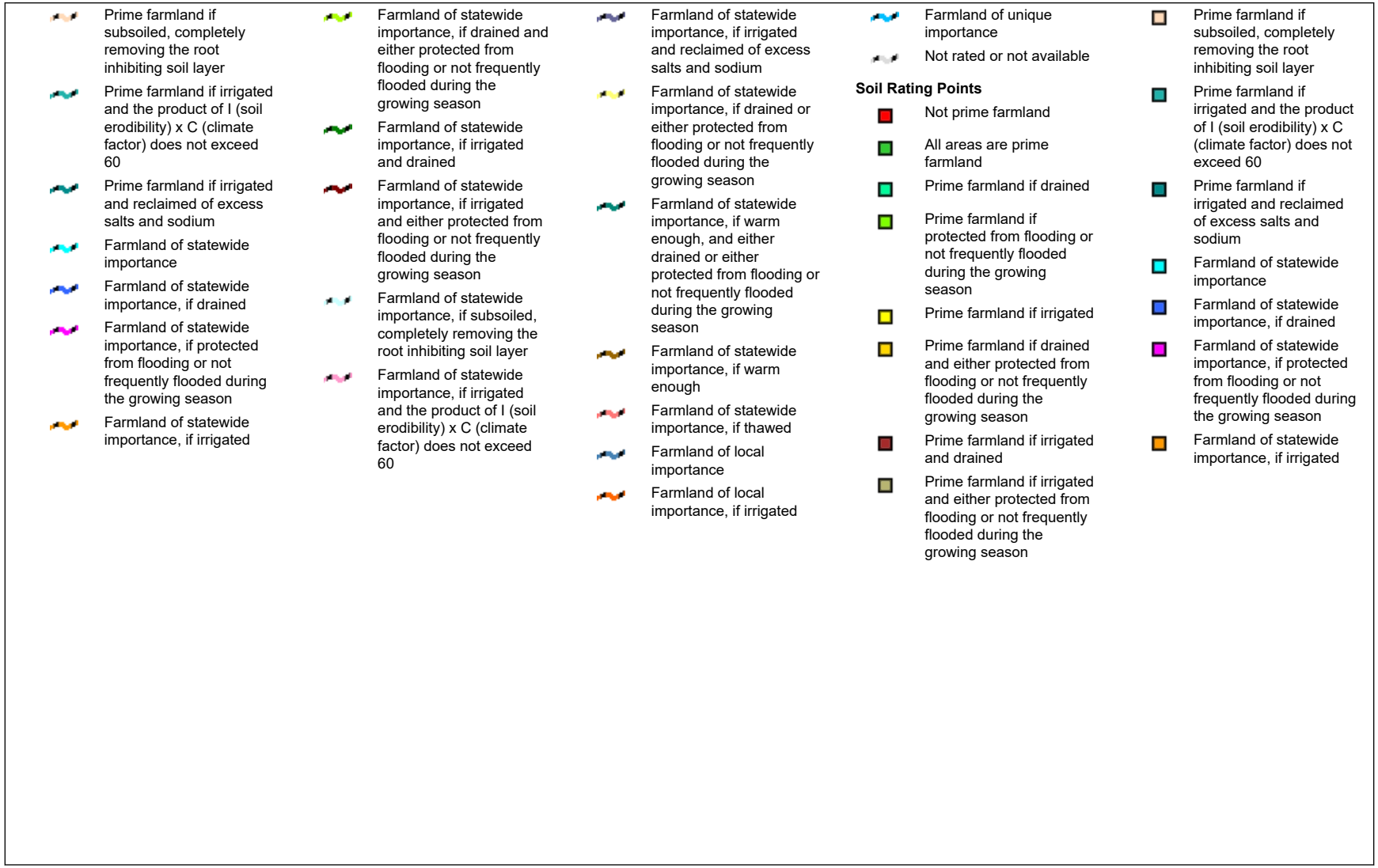
Soils

Soil Rating Polygons

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

Soil Rating Lines

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


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

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

Water Features

- Streams and Canals

Transportation

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

Background

- Aerial Photography

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

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

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

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

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

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

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

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

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

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

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

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ua	Urban land	Not prime farmland	0.9	100.0%
Totals for Area of Interest			**0.9**	**100.0%**

Description

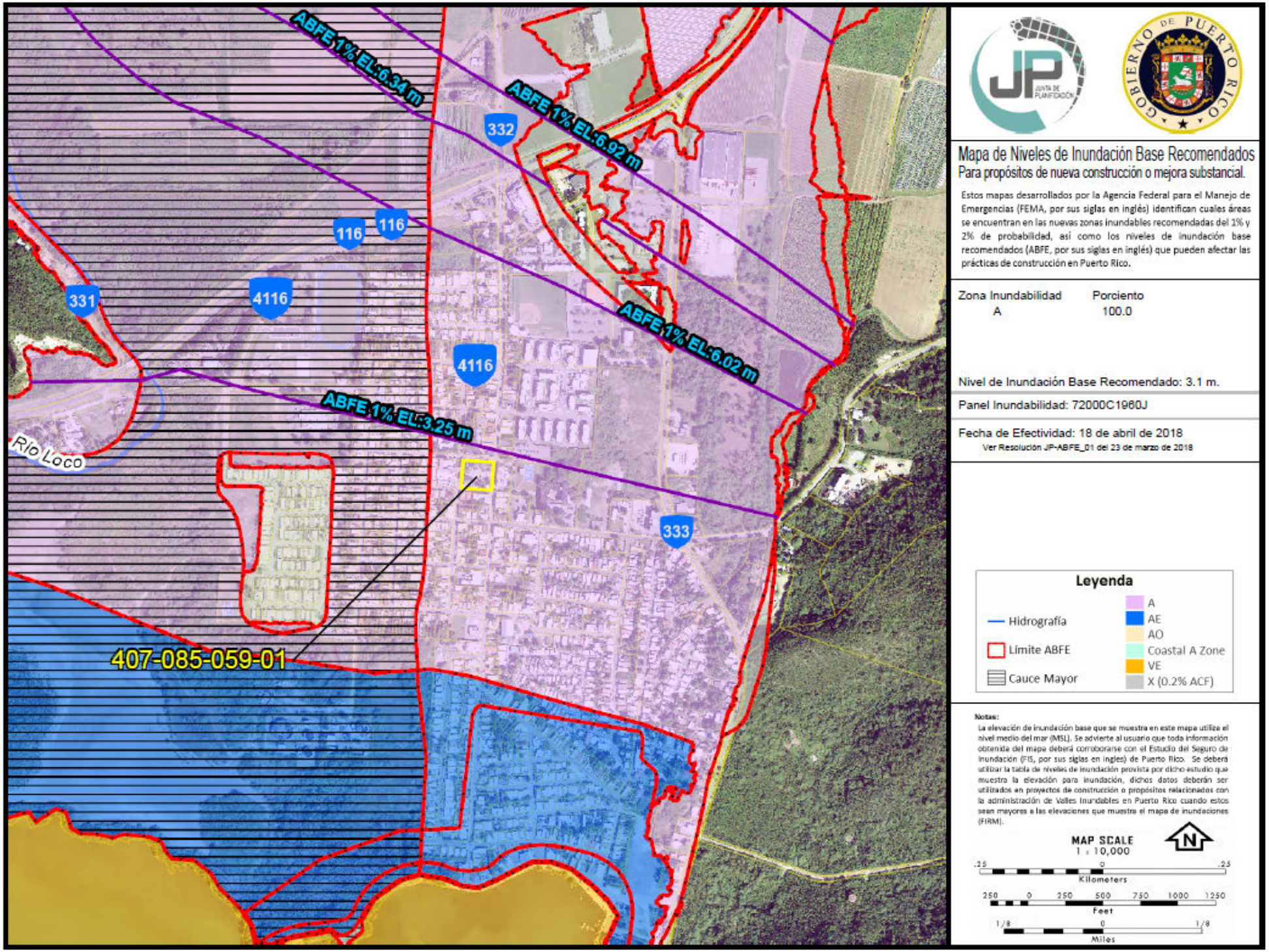
Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime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

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

Map B10



Mapa de Niveles de Inundación Base Recomendados
Para propósitos de nueva construcción o mejora substancial.

Estos mapas desarrollados por la Agencia Federal para el Manejo de Emergencias (FEMA, por sus siglas en inglés) identifican cuales áreas se encuentran en las nuevas zonas inundables recomendadas del 1% y 2% de probabilidad, así como los niveles de inundación base recomendados (ABFE, por sus siglas en inglés) que pueden afectar las prácticas de construcción en Puerto Rico.

Zona Inundabilidad	Porciento
A	100.0

Nivel de Inundación Base Recomendado: 3.1 m.

Panel Inundabilidad: 72000C1960J

Fecha de Efectividad: 18 de abril de 2018
Ver Resolución JP-ABFE_01 del 23 de marzo de 2018

Leyenda

- Hidrografía
- Límite ABFE
- Cauce Mayor
- A
- AE
- AO
- Coastal A Zone
- VE
- X (0.2% ACF)

Notas:
La elevación de inundación base que se muestra en este mapa utiliza el nivel medio del mar (MSL). Se advierte al usuario que toda información obtenida del mapa deberá corroborarse con el Estudio del Seguro de Inundación (FIS, por sus siglas en inglés) de Puerto Rico. Se deberá utilizar la tabla de niveles de inundación provista por dicho estudio que muestra la elevación para inundación, dichos datos deberán ser utilizados en proyectos de construcción o propósitos relacionados con la administración de Valles Inundables en Puerto Rico cuando estos sean mayores a las elevaciones que muestra el mapa de inundaciones (FIRM).

MAP SCALE
1 : 10,000

.25 0 .25
Kilometers

250 0 250 500 750 1000 1250
Feet

1/8 0 1/8
Miles

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

Map B11



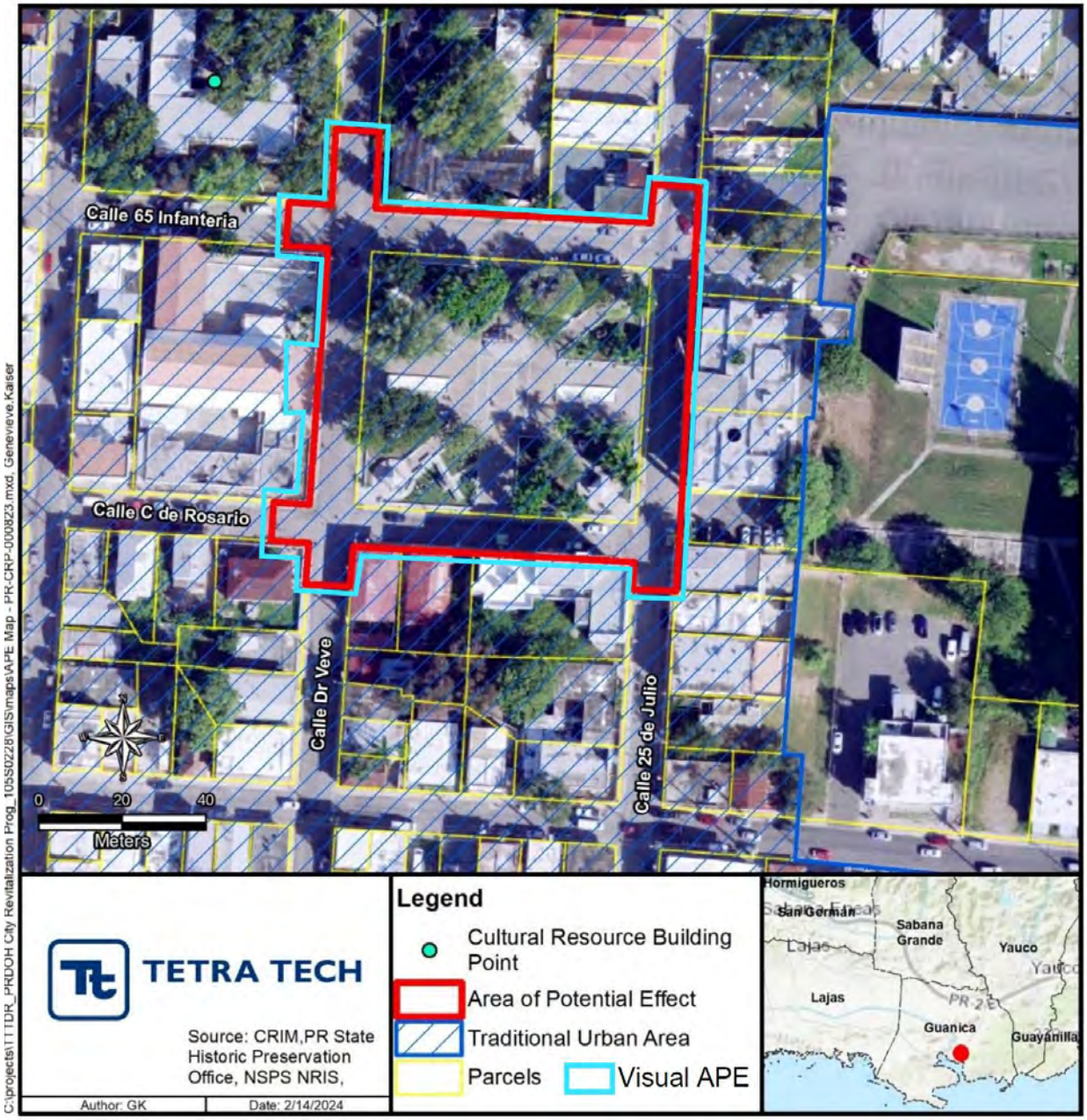
Historic Sites Map

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

N

Scale: 1:10,000

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



Map B12



Distance to Historic Sites

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

N

Scale: 1:2,000

Map B13



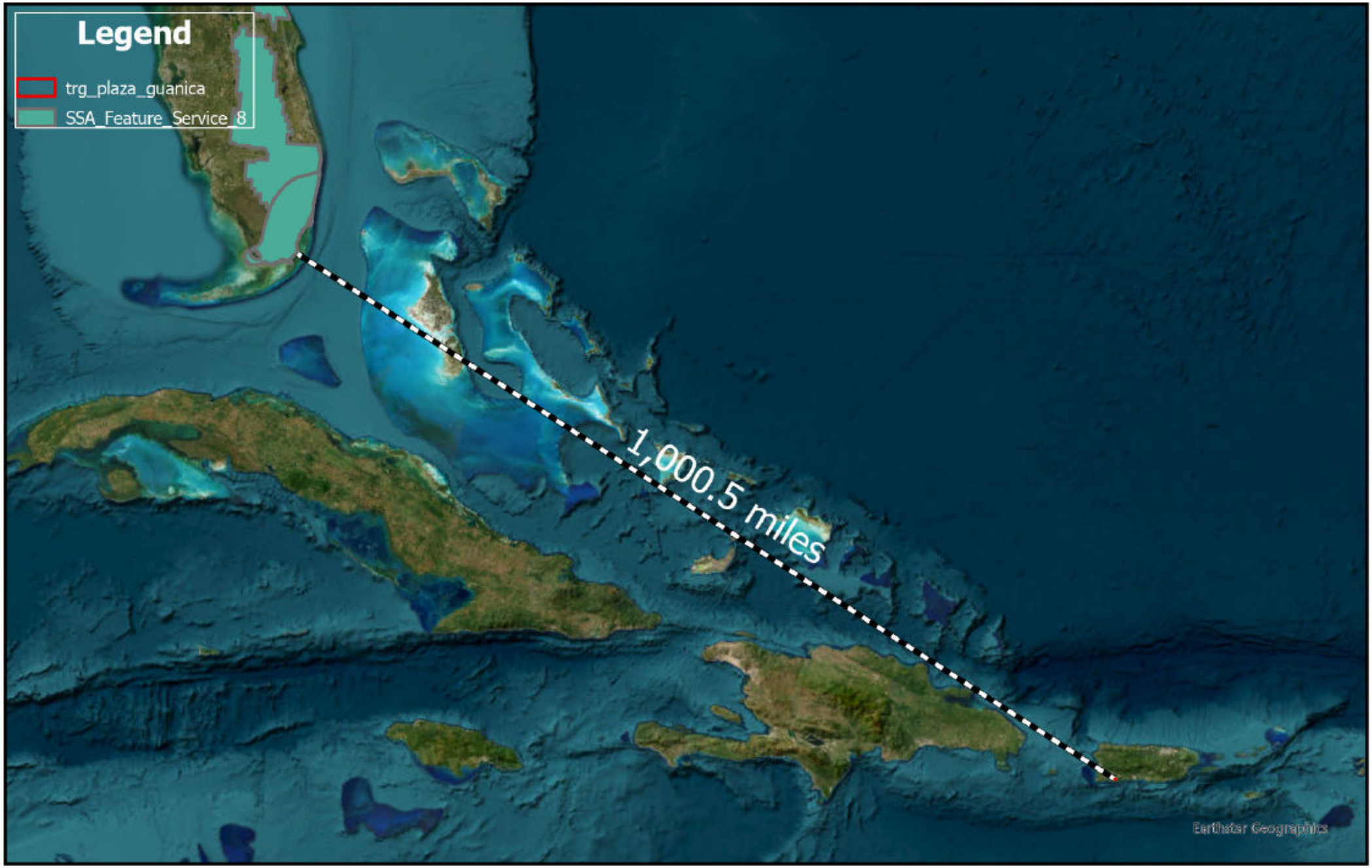
Nearest Residences Map

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC

N

Scale: 1:2,000

Map B14



Nearest Distance to a Sole Source Aquifer (Florida)

PR-CRP-000823
Plaza Manuel Jiménez Mesa Reconstruction 17.972383, -66.90786
JGP Group PSC
https://www.epa.gov/dwssa

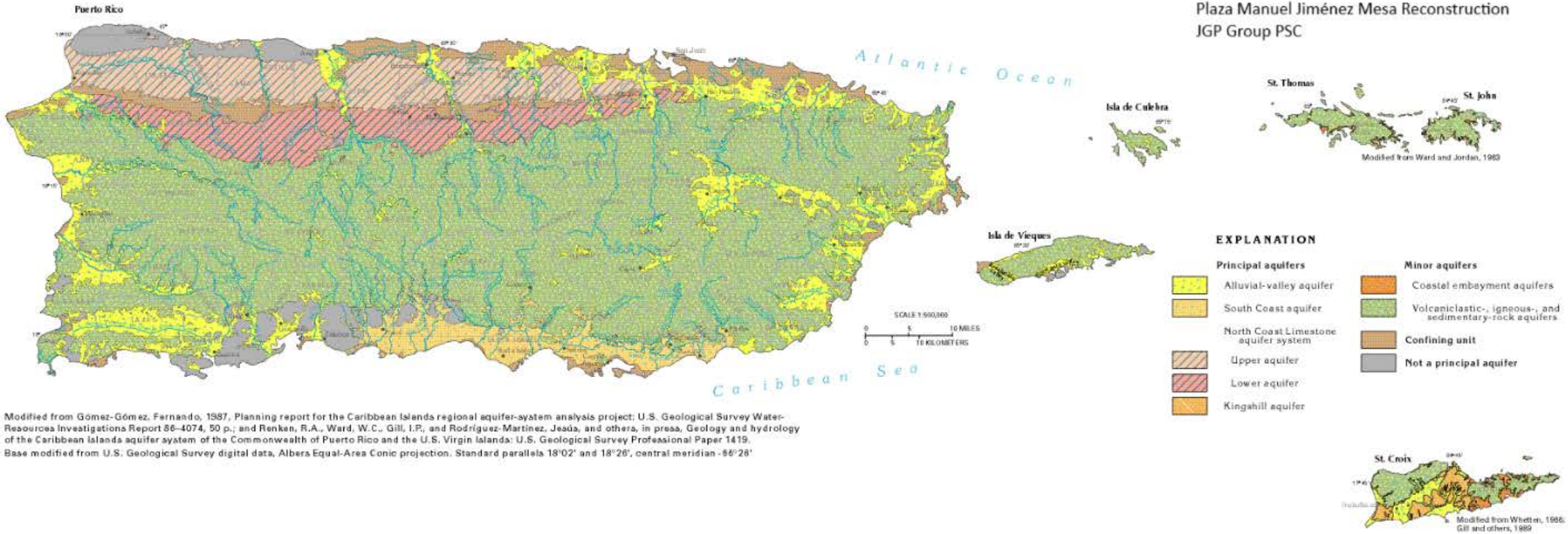
N

Scale: 1:8,192,000

Map B15

Figure 71. The alluvial valley aquifers, South Coast aquifer, and the North Coast Limestone aquifer system of Puerto Rico, along with the Kingshill aquifer of St. Croix form the principal aquifers. The coastal embayment and the volcaniclastic-, igneous-, and sedimentary-rock aquifers are less important sources of water.

PR-CRP-000823
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC



Modified from Gómez-Gómez, Fernando, 1987, Planning report for the Caribbean Islands regional aquifer-system analysis project: U.S. Geological Survey Water-Resources Investigations Report 86–4074, 50 p.; and Renken, R.A., Ward, W.C., Gill, I.P., and Rodríguez-Martínez, Jesús, and others, in press, Geology and hydrology of the Caribbean Islands aquifer system of the Commonwealth of Puerto Rico and the U.S. Virgin Islands: U.S. Geological Survey Professional Paper 1419.
Base modified from U.S. Geological Survey digital data, Albers Equal-Area Conic projection. Standard parallels 18°02' and 18°26', central meridian -66°26'

Map B16



PR-CRP-000823 17.972383, -66.90786

National Wetlands Inventory Map

Plaza Manuel Jiménez Mesa Reconstruction

JGP Group PSC

https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

Scale: 1:6,000

Map B17



Nearest Distance to a National Wild and Scenic River

PR-CRP-000823 17.972383, -66.90786
Plaza Manuel Jiménez Mesa Reconstruction
JGP Group PSC
https://data-usfs.hub.arcgis.com/datasets/national-wild-and-scenic-rivers-feature-layer/explore

N

Scale: 1:491,544

Appendix C: Puerto Rico Nonattainment/Maintenance Status

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

Data is current as of November 30, 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

Appendix D: CZMP Federal Consistency

JUNTA DE
PLANIFICACIÓN
GOBIERNO DE PUERTO RICO

March 18, 2025

Mr. Angel López Guzmán
a.lopez@vivienda.pr.gov
Deputy Director
Permit and Environmental Compliance Division
PR Department of Housing
PO Box 21365
San Juan, Puerto Rico, 00928-1365

Federal Consistency Certification
Federal Assistance with CDBG funds from the
City Revitalization Program (CRP)
CZ-2025-1115-002/ PR-CRP 000823
CADASTRAL NUMBER: 407-085-059-01
Reconstruction of Manuel Jiménez Mesa Square
Pueblo ward, Guánica, Puerto Rico

Dear Mr. López:

The Puerto Rico Department of Housing submitted the application of reference to obtain federal assistance from the CDBG-DR funds through the City Revitalization Program. The proposed project involves the reconstruction of approximately 3,809 m^2 of the existing structure. The structure includes vegetated pavilions, a fountain, a visitor reception area, a central space for various activities and recreational gardens. All surrounded by a peripheral sidewalk with vehicular access points distributed along its perimeter.

The project involves the reconstruction of a public space to enhance community engagement and livability. The municipality aims to rejuvenate the current square, serving a hub for communal, social, educational and musical activities, featuring two existing kiosks providing food and refreshments. The renovation plan includes removing and replacing current urban surfaces and features, alongside new construction and the installation of additional amenities.

The town plaza plays a significant role within the designated historic urban area of Guánica. All infrastructure systems lie outside their boundaries. Therefore, the project's enhancements will solely focus on existing structures within the plaza's established footprint which ensures that there will be no expansion or impact on surrounding systems.

The proposed project is located on July 25 Street (State Road PR-332), corner of 65 Infantry Street, Pueblo ward in the municipality of Guánica.

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

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

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

Cordially,



Luis E. Lamboy Torres
Director
Geology and Hydrogeology Office

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

MFL/

Transmittal Letter

December 20, 2024

Puerto Rico Coastal Zone Management Program
Department of Natural and Environmental Resources
P.O. Box 366147
San Juan, PR 00936
Email: comentariosjp@jp.pr.gov

RE: Puerto Rico Department of Housing / CDBG-DR CRP Program
Remodelación de la Plaza Pública Manuel Jiménez Mesa (PR-CRP-000823)
Application for Certification of Consistency

We are submitting an application for the project ***Remodelación de la Plaza Pública Manuel Jiménez Mesa* (PR-CRP-000823)**, under the CDBG-DR City Revitalization Program for your respective evaluation. Attached is included the documentation used to reach the determination for the Application for Certification of Consistency with the Puerto Rico Coastal Zone Management Program.

We look forward for your determination in order to step forward our environmental review process.

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

Sincerely,

Permits and Environmental Compliance Division
Disaster Recovery Office

JP-833
Rev. Jan. 01

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

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

General Instructions:

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

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

   1. Peripheral areas

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

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

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

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

DO NOT WRITE IN THIS BOX

Type of application: _____ Application Number: _____

Date received: _____ Date of Certification: _____

Evaluation result: ☐ Objection ☐ Acceptance ☐ Negotiation

Technician: _____ Supervisor: _____

Comments:

1. Name of Federal Agency: Puerto Rico Department of Housing

2. Federal Program Catalog Number: CDBG-DR City Revitalization Program

3. Type of Action:

   ☐ Federal Activity ☐ License or permit ☒ Federal Assistance

4. Name of Applicant: Puerto Rico Department of Housing

5. Postal Address: PO Box 12365, San Juan, PR 00928-1365

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

6. Project name: Remodelación de la Plaza Pública Manuel Jiménez Mesa (PR-CRP-000823)

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

   The proposed project involves the reconstruction of approximately 3,830 square meters of the existing Plaza Manuel Jiménez Mesa situated on Municipality of Guánica, Puerto Rico 00647. The Plaza includes vegetated pavilions, 2 fountains, Veterans monument, Altrusa monument, a concrete bandshell, and a kiosk. All surrounded by a peripheral sidewalk with vehicular access points distributed along its perimeter.

Lambert Coordinates: X= 149737.0523 Y= 215455.1267

8. Type of construction or other work proposed:

☐ drainage ☐ channeling ☐ landfill ☐ sand extraction

☐ pier ☐ bridge ☐ residential ☐ tourist

☒ others (specify and explain): Reconstruction of the public town square

Description of proposed work: The Municipality of Guánica proposes to renovate the existing plaza and surrounding streets through the demolition and replacement of Plaza level finishes, sidewalk pavements, concrete slabs, and a concrete platform, the improvement of ramps and crosswalks and repaving of the surrounding streets. Low wall planters will be demolished, trees relocated with new landscaping and plantings planned. Thirty-two existing light fixtures will be removed, and replaced with 24 new LED light fixtures, 40 bollards with integrated lighting, and 52 new low ambient light fixtures. A new play yard, new and additional street furniture, new pergolas and gazebos, and a new walking trail are planned. Existing kiosks will remain, while existing monuments will be relocated to different locations within the plaza. The existing fountains will be demolished. A new walk-through fountain, pump house with new pump equipment, pump module foundation, misters at the garden gazebos, storm sewer system, and cistern is also proposed.

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

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

System	Within Project	Outside Project	Distance (meters)	Local name of affected system.
beach, dunes		X	815 m	Guánica Bay
marshes				
coral, reefs				
river, estuary		X	645 m	Río Loco
		X	375 m	Estuarine and Marine Wetland
bird sanctuary				
pond, lake, lagoon				
agricultural unit				
forest, wood		X	690 m	Bosque Estatal y Reserva Natural de Guánica
cliff, breakwater				
cultural or tourist area	X		805 m	Malecón de Guánica
other (explain) Floodplain	X			Zone A in ABFE Map

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

Positive ☒ Negative ☐

Explain: The town plaza plays a significant role within the designated historic urban area of Guánica. All infrastructure systems lie outside its boundaries. Therefore, the project's enhancements will solely focus on existing structures within the plaza's established footprint which ensures that there will be no expansion or impact on surrounding systems.

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

		Yes	No	Pending	Application Number
a.	Planning Board	☐	☐	☐	
b.	Regulation and Permits Administration	☒	☐	☐	OGPe: 2022-455799-SRM-059585; 2022-455799-SRA-059583; 2022-455799-SRI-059584
c.	Environmental Quality Board	☐	☐	☐	
d.	Department of Natural Resources	☐	☐	☐	
e.	State Historic Preservation Office	☒	☐	☐	After evaluation of the Section 106 NHPA Effect Determination and the archaeological monitoring plan submitted by PRDOH, SHPO concurred on December 18, 2024, with the determination of No Adverse Effect upon historic properties conditioned to implementation of the monitoring plan.
f.	U.S. Army Corps of Engineers	☐	☐	☐	
g.	U.S. Coast Guard	☐	☐	☐	
h.	Other (s) (specify)	☐	☐	☐	

CERTIFICATION

I CERTIFY THAT Remodelación de la Plaza Pública Manuel Jiménez Mesa (PR-CRP-000823) is consistent with the Puerto Rico Coastal Zone Management Program, and that to the best of my knowledge the above information is true.

Aldo A. Rivera-Vázquez, PE

Director for Program Management,
Disaster Recovery Office, PRDOH

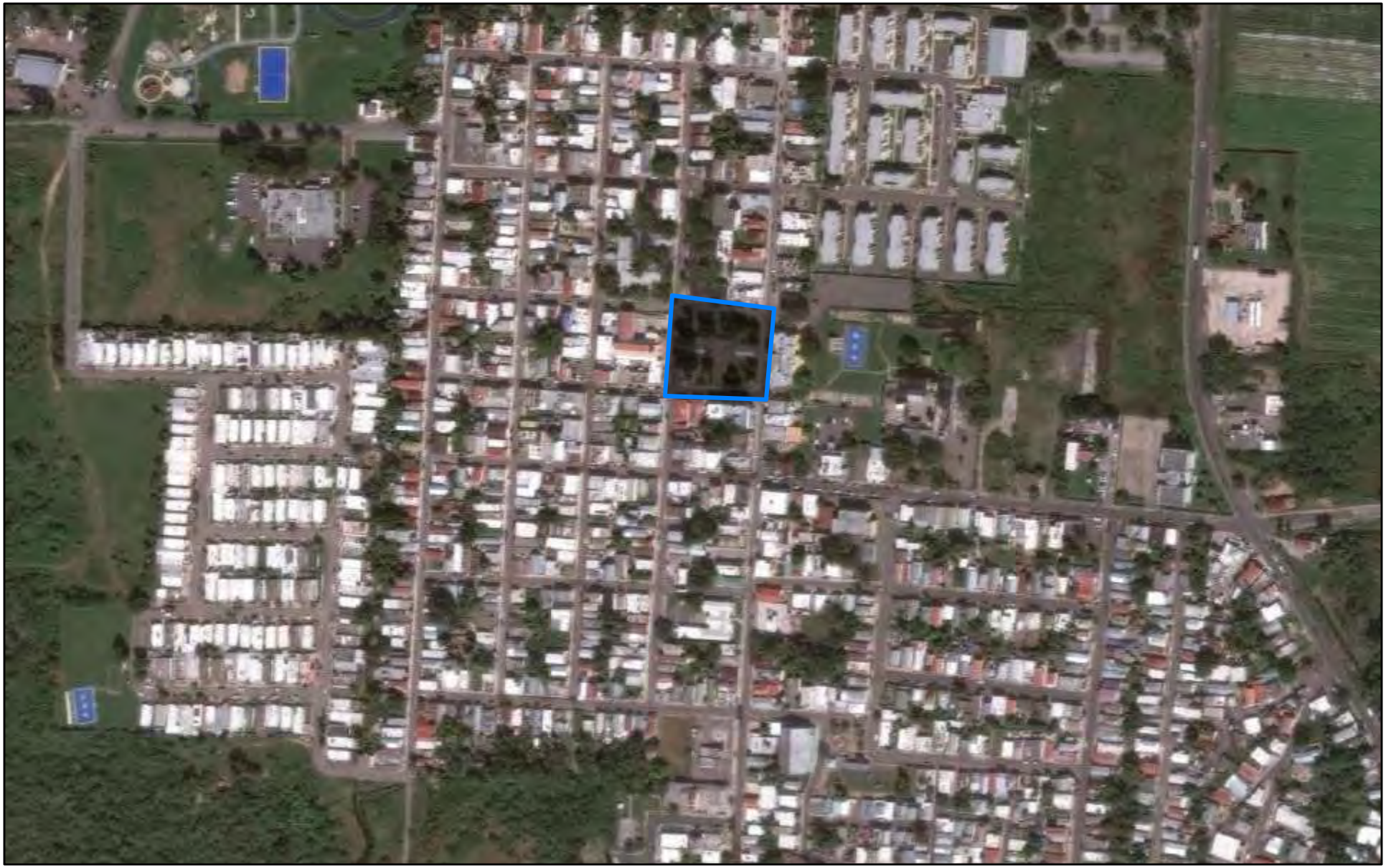
Position

Signature

Date

Location Map

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa
25 de Julio St and 65 de Infantería St, Guánica PR 00647
Coordinates 17.972382, -66.907862



Legend:

Project Site

N

1:4,514

0 200 400 800 ft

0 60 120 240 m

Maxar

12/19/2024

Junta de Planificación, FEMA

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

https://sige.pr.gov/portal/apps/webappviewer/index.html?id=53ed4b9fa37840a88bb44d2a911512fc

Puerto Rico Coastal Zone Map

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa
25 de Julio St and 65 de Infantería St, Guánica PR 00647
Coordinates 17.972382, -66.907862



Legend:

Coastal Zone Land Boundary

Project Site

1:11,687

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

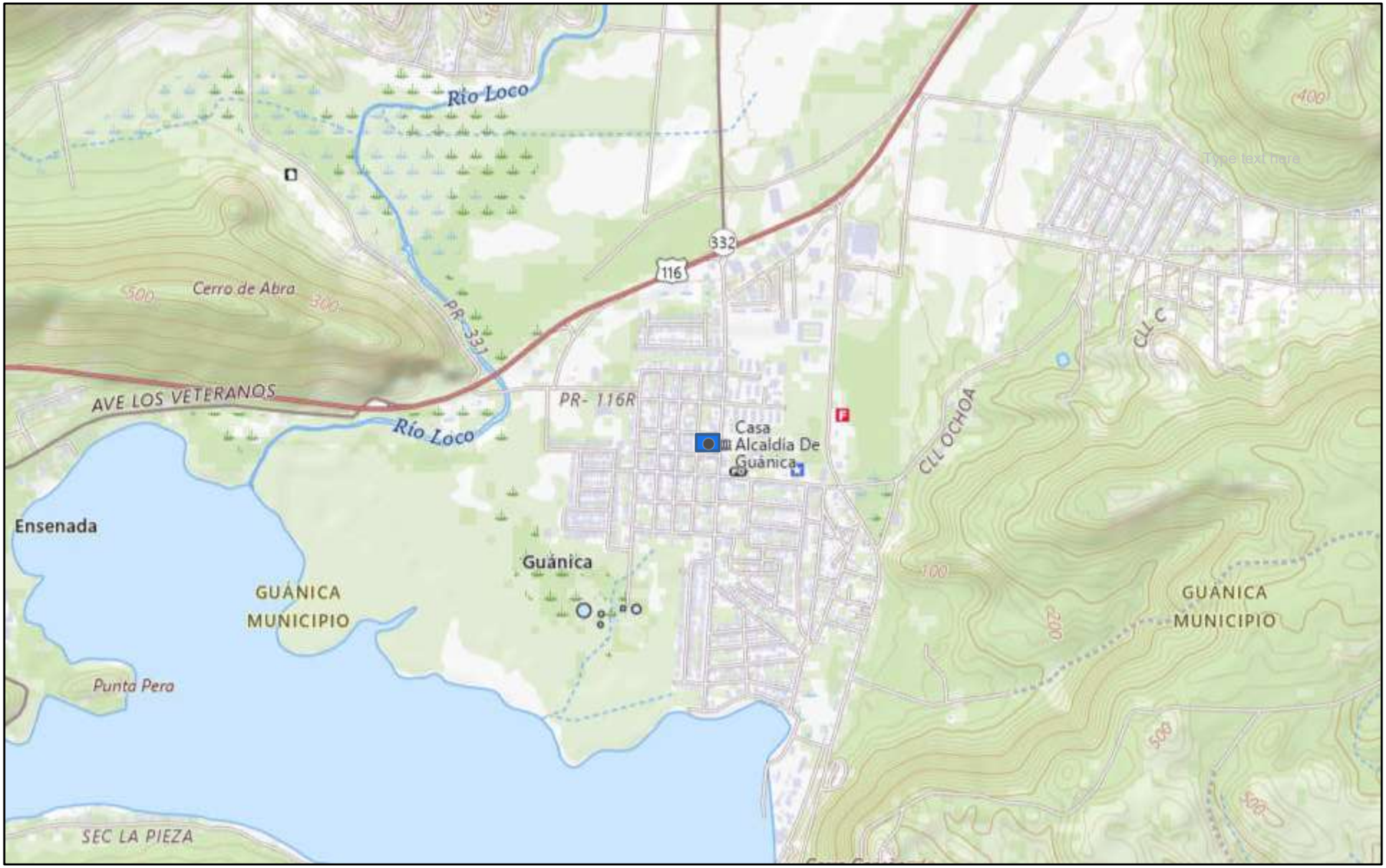
Esri, HERE, Garmin, iPC, Maxar

12/19/2024

https://www.arcgis.com/apps/mapviewer/index.html?webmap=1d0eff6661f340dcabb0e9928d01ec57

Topographic Map

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa
25 de Julio St and 65 de Infantería St, Guánica PR 00647
Coordinates 17.972382, -66.907862



Legend:

Project Site

N

1:18,056

0 500 1,000 2,000 ft

0 240 480 960 m

12/19/2024

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography

USGS

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

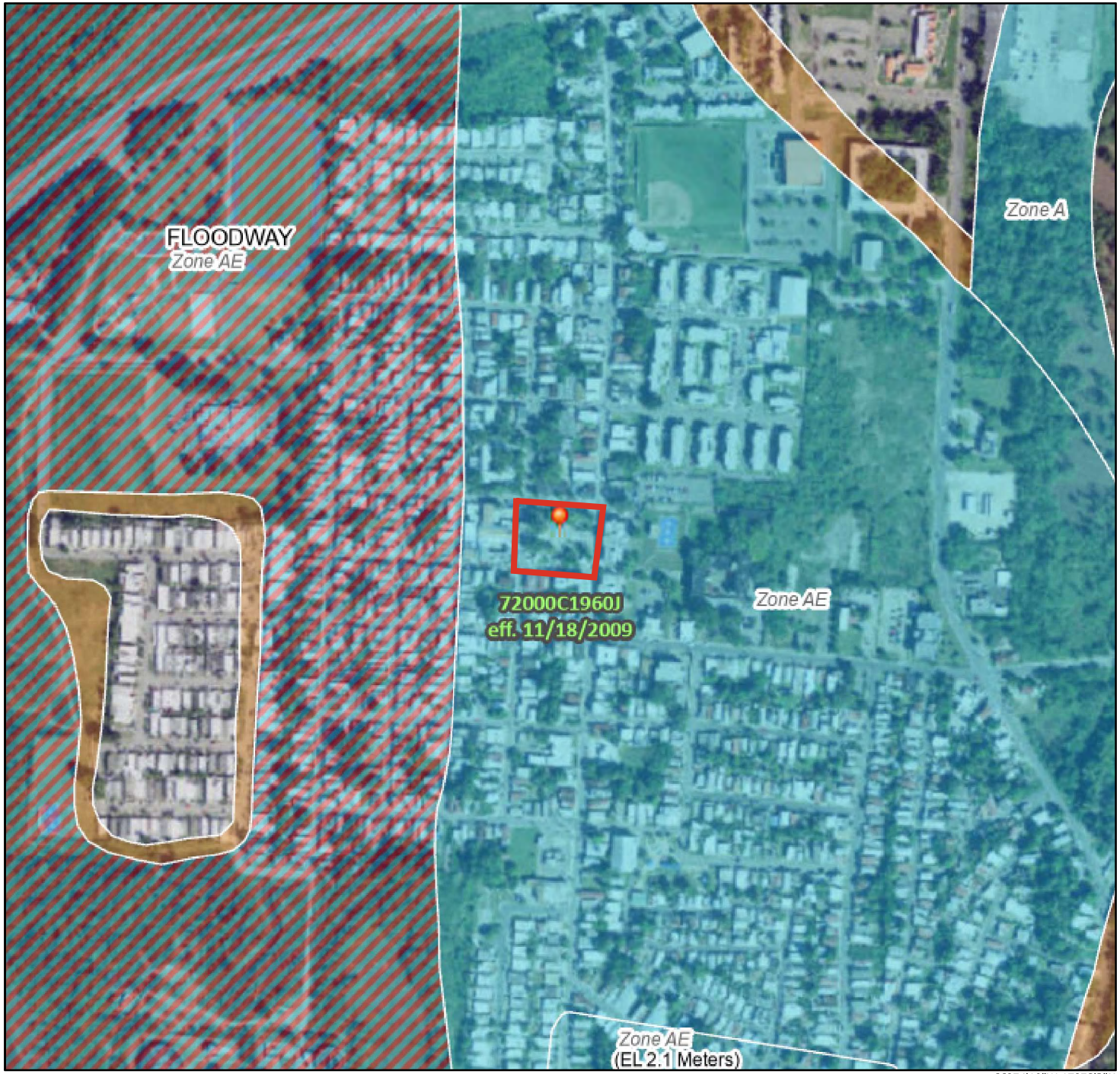
2021 USGS

National Flood Hazard Layer FIRMette

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa
25 de Julio St and 65 de Infantería St, Guánica PR 00647
Coordinates 17.972382, -66.907862

FEMA

66°54'47"W 17°58'38"N



66°54'10"W 17°58'3"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

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

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

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

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

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

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

N

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

Project Site

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 3/31/2022 at 6:38 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.

ABFE Map

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa
25 de Julio St and 65 de Infantería St, Guánica PR 00647
Coordinates 17.972382, -66.907862



Legend:

- 0.2 PCT Área de Peligro de Inundación
- A
- AE
- AO
- A Costera
- VE
- Cuerpos de Agua
- 1 PCT Cauce Mayor
- Panel
- Project Site

N

1:4,514

0 200 400 800 ft

0 60 120 240 m

PRPB; FEMA, Maxar

12/19/2024

Junta de Planificación, FEMA

https://sige.pr.gov/portal/apps/webappviewer/index.html?id=53ed4b9fa37840a88bb44d2a911512fc

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

MEMORIAL EXPLICATIVO

REMODELACION PLAZA JUAN JIMENEZ MESA

Centro Urbano
Barrio Pueblo del
Municipio de Guánica, PR

INTRODUCCION: Sometemos a la consideración de la Oficina de Gerencia de Permisos planos de construccion para la remodelación de la céntrica plaza Juan Jimenez Mesa, también conocida como la Plaza Publica de Guánica, según se describe y discute mas adelante en este documento. A continuación, presentamos la información relevante a nuestra solicitud.

Base Legal y Reglamentaria: Se determinan las siguientes reglamentaciones y legislaciones como referencias y precedentes para efectuar la solicitud en cuestión:

Leyes	Ley 109-2018 que enmienda la Ley 161 para facultar a la OGPe-DDEC, a adoptar y promulgar el código de construcción para regular la construcción en PR y sus estándares de referencia fechada del 2 de noviembre de 2019
	American Dissabilities Act; conocida como la "Ley ADA" del 26 de junio de 1990, según enmendada.
	Ley de Zonas Históricas, Antiguas o de Interés Turístico Ley Núm. 374 de 14 de mayo de 1949, según enmendada.
Reglamentos	Puerto Rico Building Code; según coordinado & actualizado con el International Code Council (IBC) fechado del 15 de noviembre de 2018
	Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos, (7951) con vigencia del 30 de noviembre de 2010
Otros	Ordenes Administrativas OGPe 2017-10 y 2017-11 que constituye el nuevo Comité de Códigos de Construcción, e instruye a la revisión del Código de Construcción de Puerto Rico 2018; implantadas el 26 de diciembre de 2017.
	Resolución JPE-25 Eximiendo a los Municipios de Puerto Rico de Someter a la Junta de Planificación y la Administración de Reglas y Permisos de Ciertos Proyectos Municipales, vigente del 2 de julio de 1975.
	Section 106 - National Historic Preservation Act (NHPA) of 1966
	SECCIÓN 10.2.8.3 CRITERIOS PARA LOS ELEMENTOS INTERNOS DE LAS PLAZAS, PLAZUELAS Y PLAZAS DE RECREO, del Reglamento Conjunto.

Jurisdicción. Se presenta esta solicitud ante la oficina de Gerencia de Permisos (OGPe) a tenor con la Ley 81 del 30 de agosto de 1991, conocida como Ley de Municipios Autónomos, para la evaluación y aprobación de una solicitud de permiso de construcción para la remodelación de esta plaza existente.

DESCRIPCION DE LA PROPIEDAD/TITULARIDAD. El área por intervenirse comprende una servidumbre publica de espacio urbano rodeado por servidumbres de circulación vehicular y peatonal propiedad del Gobierno Municipal de Guánica, ubicada en el Centro Urbano de dicho municipio.

El proyecto de la plaza tiene un área de superficie aproximada de 40,984 pies cuadrados o 3,809 metros cuadrados, mientras que el área de superficie de sus áreas de circulación colindantes suma unos 30,980 pies cuadrados o 2,879 metros cuadrados. La plaza es demarcada por la calle 65 de Infantería al Norte, la calle 25 de Julio (PR-332) al Este, la calle Del Rosario por el Sur y la calle Dr. Veve por el Oeste. Coordenadas Lambert en el sistema NAD 83 de la propiedad son: x: 149737.0523, y:215455.1267. (Lat.: 17.97238227. Lon: -66.90786221)

La plaza fue reconstruida prácticamente en su totalidad para 2004 y luego en 2016, se pierde cualquier vestigio de su entorno original, que data de aproximadamente de 1920.

Uso: La propiedad está demarcada dentro de los confines de una Dotacional Publica (DT-P) según establecido en el Mapa de Calificación de Suelos del Plan Territorial para el Municipio de Guánica, Hoja 38 con vigencia del 2 de junio de 2010. La propiedad conserva su uso original como plaza de recreo, toda nueva facilidad y amenidad ahora propuestos son afines con esos usos.

Para esos propósitos, se proponen las siguientes actividades en las áreas descritas:

- Reconfigurar áreas verdes y vegetación existentes para incrementar la interacción entre el público y las áreas vegetadas, añadir más vegetación y reforestación.

- Reconfigurar áreas pavimentadas para mejor interactuar con amenidades y facilidades de infraestructura urbana existente y propuestas, incluyendo áreas para equipos de juego y ejercicio para la comunidad. Reemplazar equipos de fuentes convencionales por una sola fuente tipo “walkthrough”.

- Reubicar y añadir mobiliario urbano al nuevo esquema de la plaza con el propósito de ofrecer más áreas de esparcimientos en áreas de sombra, incluyendo piezas/monumentos existentes para su mejor funcionamiento dentro de la nueva configuración.

- Mejorar iluminación del espacio público con tecnología moderna y más eficiente.

- Mejorar sistemas de rampas y cruces peatonales a cumplimiento de leyes y códigos vigentes.

Descripción de la Acción Propuesta: El Municipio de Guánica interesa la remodelación de la Plaza Juan Jimenez Mesa para actualizar su programa de infraestructura urbana a normas modernas operacionales. Conforme al nuevo programa, las áreas y usos principales serán según a continuación:

AREA	USO	Calle	Area (en PC)
Área Central	Actividades en general		10,700
Plazoleta Este,	Recibo de visitantes	25 de Julio	2,080
Plazoleta Oeste	Nueva Fuente,	Dr. Veve	2,080
Plazoleta Norte	Nuevo pabellón vegetado,	65 de Infantería	1,160
Plazoleta Sur	Nuevo pabellón vegetado,	Del Rosario	1,160
Jardín Noreste	Esparcimiento, Monumento	25 Julio & 65 Infantería	4,950
Jardín Noroeste	Esparcimiento, Monumento	65 Infantería & Dr. Veve	4,950
Jardín Suroeste	Esparcimiento, Quiosco	Calle Dr. Veve & Del Rosario	4,950
Jardín Sureste	Esparcimiento, Quiosco	Calle Del Rosario & Dr. Veve	4,950
Acera Periferal	Circulación peatonal		4,004

Todas estas mejoras y reparaciones deberán cumplir con parámetros de diseño estatales y federales para espacios públicos y que están no impactan negativamente el entorno histórico/urbano ante el ICP y la Oficina Estatal de Conservación Histórica. A esos efectos, indicamos que:

a. El proyecto reconfigura áreas verdes para añadir más vegetación y reforestación.

b. Se reconfigura áreas pavimentadas para mejor interactuar con amenidades y facilidades de infraestructura urbana existente y propuestas.

c. Se reubicar y añade mobiliario urbano para ofrecer más áreas de esparcimientos en áreas de sombra, incluyendo piezas/monumentos existentes para su mejor funcionamiento dentro de la nueva configuración.

d. Se mejora iluminación del espacio público con tecnología moderna y más eficiente.

e. Se mejoran rampas y cruces peatonales a cumplimiento de leyes y códigos vigentes.

f. Se respeta la forma octagonal de la plaza.

g. Se propone mobiliario cónsono con la programación de usos y ambientación propuestos. Los bancos son de material duradero, ubicados dentro del área a cubierto o parcialmente cubierto. Se utilizarán diferentes pavimentos para demarcar unas zonas con usos definidos y resultados estéticos de gran valor, en complemento al mobiliario urbano a proponerse. Igual ocurre con las luminarias de alumbrado.

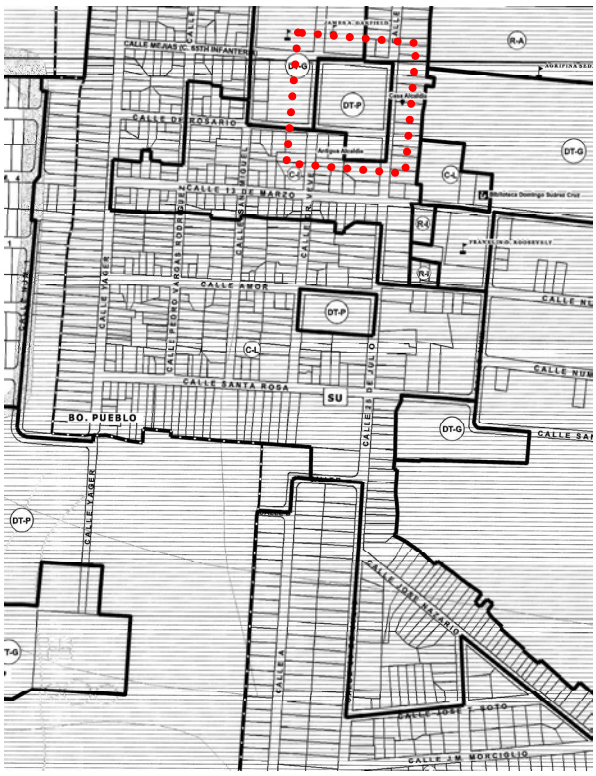
h. Quioscos y esculturas existentes por permanecer en la plaza. Tarima de concreto erigida en 2016 a removerse. No se proponen conchas acústicas, tarimas o templetes en el proyecto.

i. Vegetación: Los árboles, arbustos y flores definen zonas, dentro del espacio de la plaza, por lo tanto, el tratamiento paisajista debe guardar la altura y frondosidad de los árboles en estrecha proporción entre los edificios circundantes y su altura la cual no será mayor que un edificio de cuatro (4) plantas. Se orientarán en forma tal que se obtenga un cono de sombra que proteja las áreas de descanso. Evita destrucción de prados/flores mediante sistema de setos vivos de tres (3) pies.

IMPACTO DEL PROYECTO. Este tipo de proyecto pudiera impactar el área en la duración del Proyecto mediante posibles sedimentaciones de sistemas pluviales existentes, emisión de polvos fugitivos, interrupciones temporeras de tráfico y transito tanto vehicular como peatonal, así como la Inaccesibilidad temporera a zonas de estacionamientos a lo largo de la servidumbre de rodaje. A esos efectos se coordinará con el Municipio de Guánica, su cuerpo de Policía Municipal y demás agencias gubernamentales con inherencia sobre el proyecto para establecer un plan de mitigación para control los polvos fugitivos & sedimentación al sistema pluvial existente, así como a un plan de coordinación de tráfico/tránsito vehicular y peatonal temporero.

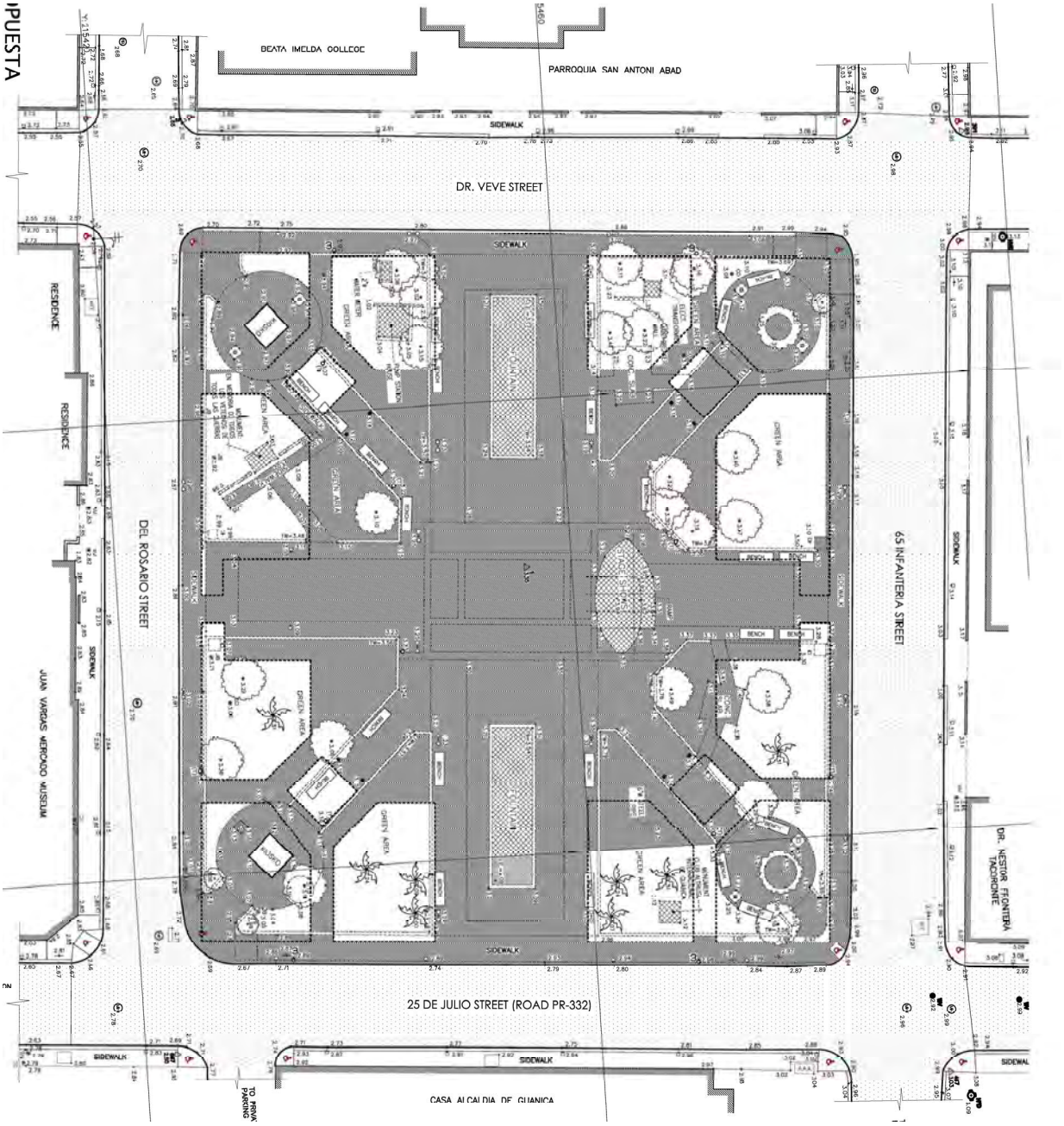
COSTO DEL PROYECTO. El proyecto propuesto tendrá un costo preliminar de aproximadamente TRES MILLONES DE DOLARES ($3,000,000.00) provenientes del sector público, generando alrededor de treinta (30) empleos directos durante la fase de construcción.

Localización del Proyecto



Eduardo A. Regis Martinez
TRG Architects PSC
ANEXOS

Final del documento



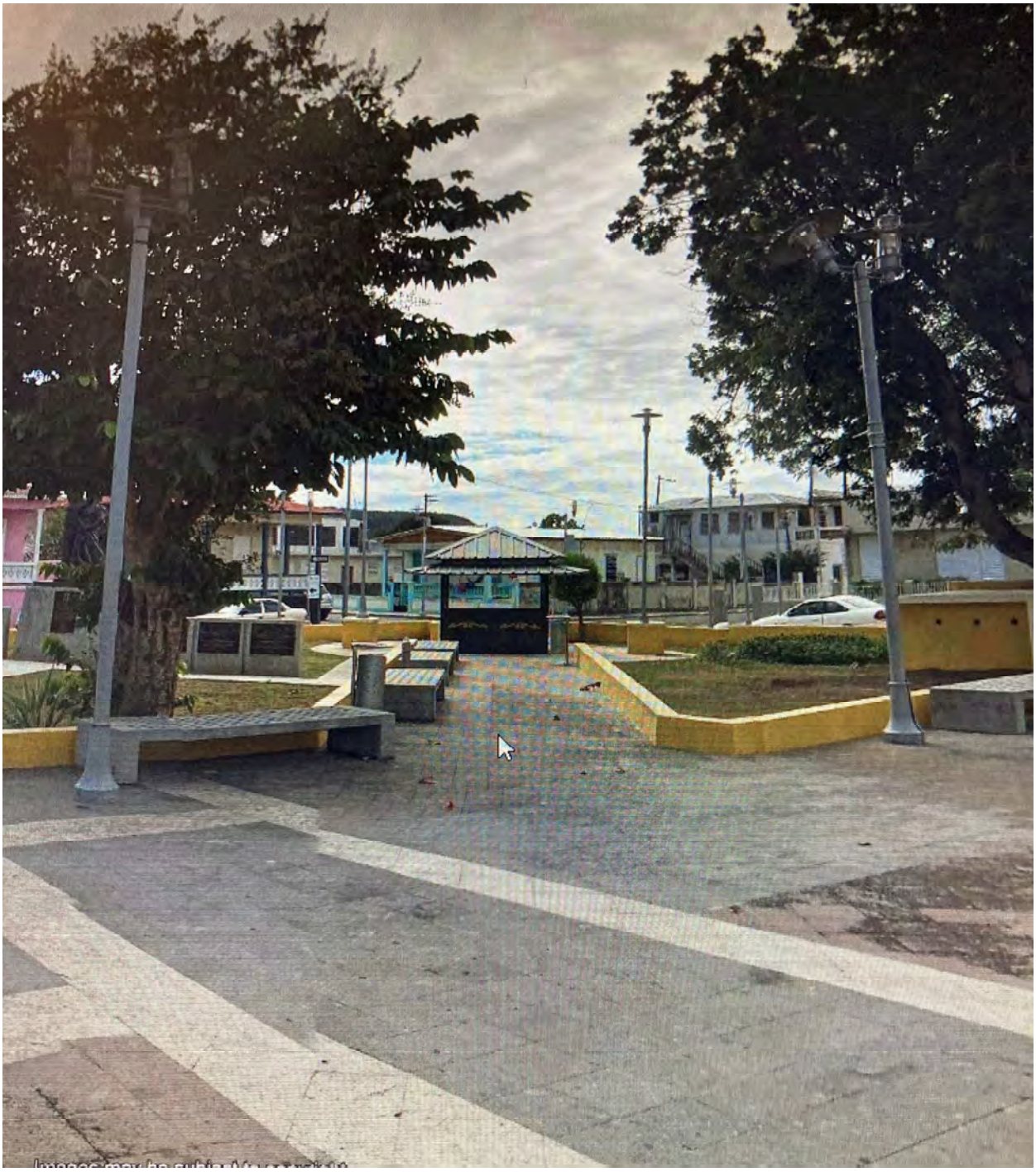
Arriba: Planta de condición existente plaza, demolición propuesta.



Arriba: Vista de tarima en centro de plaza, a ser demolida en este remodelación.

Abajo: Monumento al Veterano.





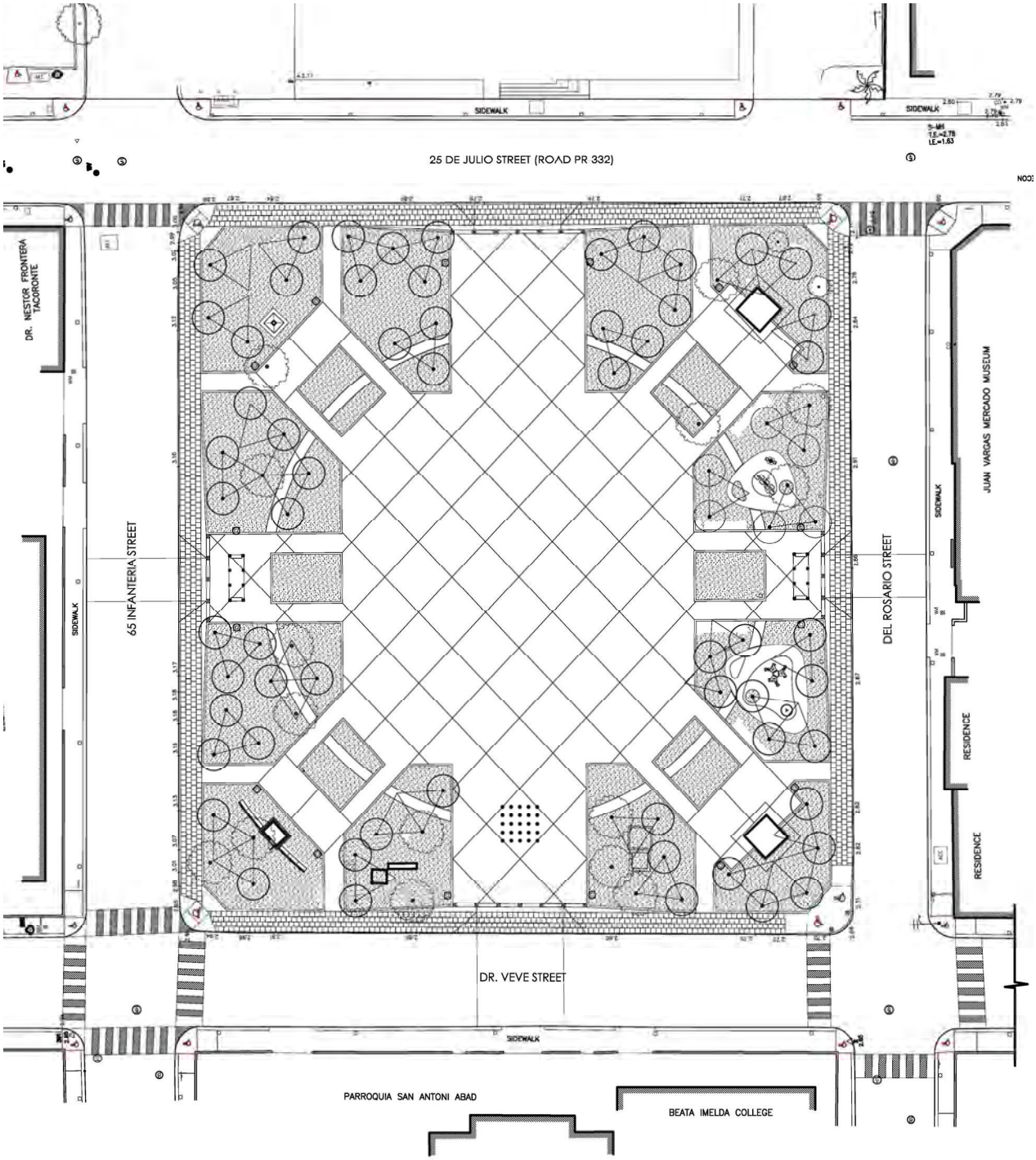
Arriba: Vista de uno de dos quioscos a permanecer en la plaza.



Arriba: Vista de la plaza existente hacia el sur con la antigua alcaldía, hoy Museo de Historia de Guanica, al fondo.

Abajo: Vista de la plaza existente hacia el este con la Nueva Alcaldía (a demolerse) al fondo.





Arriba: Planta de remodelacion propuesta.



Arriba: Vista de áreas de juego propuestas, bancos y pérgolas a lo largo de nuevas áreas verdes.

Abajo: Vista de pabellon de lattice alineado hacia entrada antigua alcaldía hoy Museo de Historia de Guanica, pérgolas y bancos a lo largo de nuevas áreas verdes.





Arriba: Vista de nueva fuente, pavimentos y nuevas áreas verdes en el costado oeste de la plaza, frente a la iglesia parroquial.

Abajo: Vista de bancos y pergolas a lo largo de nuevas áreas verdes, con nueva fuente y quiosco a permanecer al fondo.



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

Wednesday, December 18, 2024

Lauren B Poche

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

SHPO-CF-06-04-24-13 PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Dear Ms. Poche,
Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended), 36 CFR Part 800: Protection of Historic Properties and the Programmatic Agreement executed in 2016, as amended.
After a review of all the additional documentation, the SHPO agrees with your finding that the proposed project will have no adverse effect upon historic properties, conditioned to the implementation of the archaeological monitoring plan, dated September 26, 2024, you included for our review.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

November 18, 2024

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

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

Re: SHPO-CF-06-04-24-13 - PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated August 26, 2024, in response to the submission of documentation for PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa project. The letter stated that after the review of all documentation the Puerto Rico State Historic Preservation Office supported PRDOH's finding of no adverse effect for the proposed undertaking, based on the conditions proposed: Archaeological monitoring during all ground disturbing activities for the project, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Archaeological Monitoring and Protection Plan for the Remodelación de la Plaza Publica Juan Jiménez Mesa project (PR-CRP-000823/SHPO 06-04-24-13) prepared by Archaeologists Roberto G. Muñoz-Pando and Sharon Meléndez Ortiz. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.

Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



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

PRDOH CDBG-DR CRP PROGRAM

Remodelación de la Plaza Pública Juan Jiménez Mesa en Guánica, Puerto Rico

PR-CRP-000823 / SHPO: PENDING/ CP-PAE: PENDING
OGPe: PENDING

Archaeological Monitoring and Protection Plan



Prepared by:

Roberto G. Muñoz-Pando, PhD
Archaeologist- **Tetra Tech, Inc.**
Sharon Meléndez Ortiz
Archaeologist – **Horne PR**

September 26, 2024

I. PREAMBLE

The Municipality of Guánica is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of San Sebastián for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The municipality proposes the revitalization and restoration of Guánnica's main plaza plaza (Figure 1).

Figure 1: Project Location in the Satellite Image

(from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 3)



The Puerto Rico State Historic Preservation Office (PRSHPO), is expected to concur with a finding of No Adverse Effect for this undertaking conditioned to the implementation of an archaeological monitoring plan for all new construction within the Municipality of Guánica, including the rehabilitation of the Plaza de Guánica and its reconstruction. The SHPO also indicated that "*care should be taken for vibration effects for the surrounding historic buildings to prevent damage during construction.*" Coordination with The Archaeology and Ethnohistory Program (PAE) of the Institute of Puerto Rican Culture (ICP) of the archaeological supervision is ongoing.

The objectives of archaeological monitoring, according to ICPR Regulation #8932 are: (1) To locate, evaluate and document archaeological resources during project development; (2) To recover as much archaeological information and materials as possible during excavation and construction work; (3) To conserve and enhance the value of the archaeological resources located and documented; and (4) In the event that the archaeological resource cannot be conserved in situ, to conserve it through documentation.

Figure 2: Project Location in the Aerial Map with the direct APE delimitated in red
(from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 16)

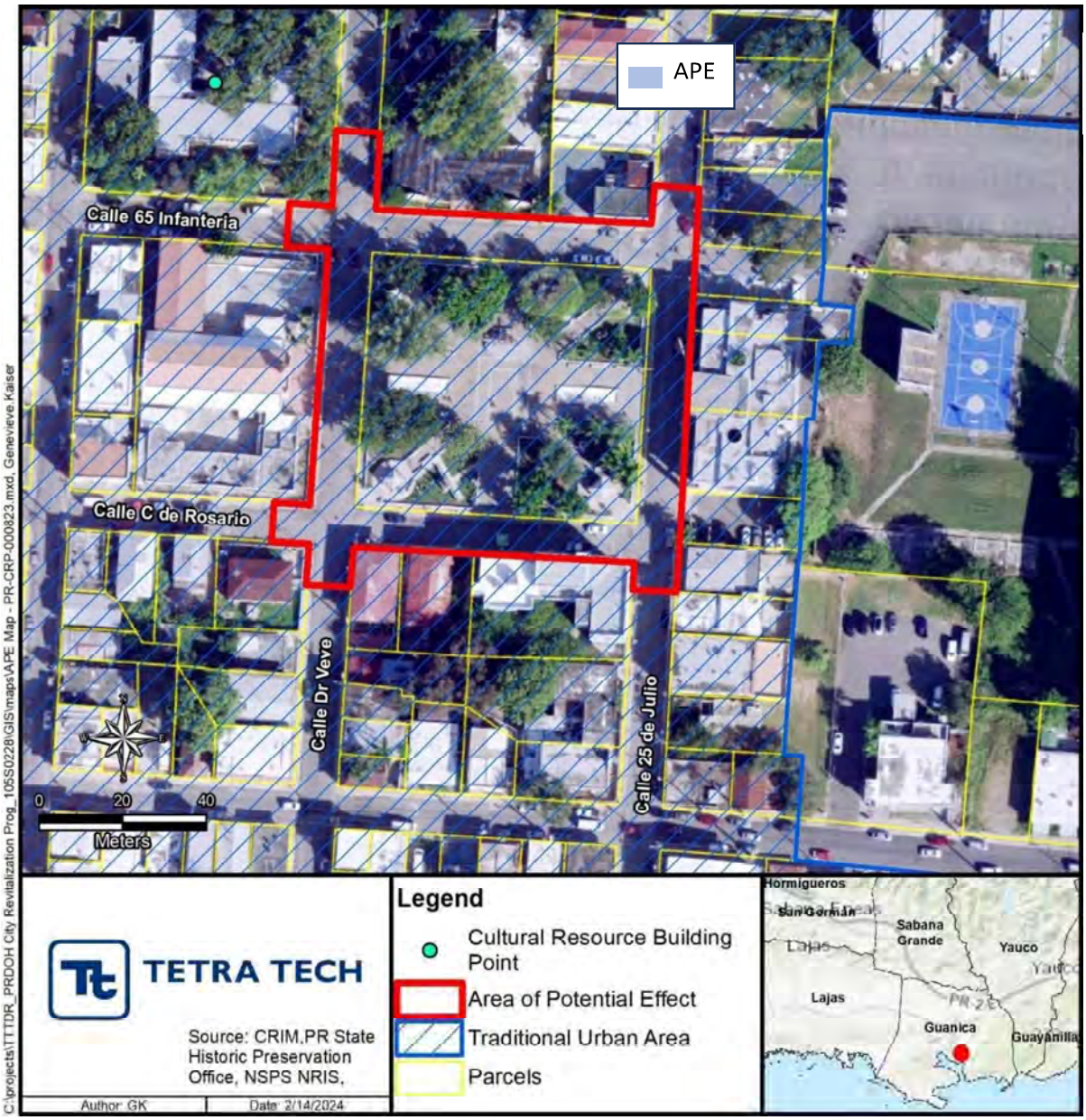


Figure 3: Project Parcel Location at the USGS Topographic Map with the direct APE delimitated in red (from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 18)



Other objectives of this archaeological monitoring plan are: (1) to establish the protocol to be followed in archaeological monitoring; (2) to establish the protocol to be followed if previously unknown resources are identified; (3) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (4) to establish the protocol for cleaning the culverts, (5) to establish the parameters for documentation and evaluation of the structures, and (6) to establish the consultation protocol to be followed in case the structures require major repairs.

This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, and Regulation #8932 of the Institute of Puerto Rican Culture (IPRC). The plan was prepared by archaeologists Roberto G. Muñoz-Pando and Sharon Meléndez Ortiz, who meet the Professional Qualifications Standards set forth in 36 CFR Part 61. Archaeologist Meléndez Ortiz is also listed as an archaeologist by the Council for the Protection of Earth Archaeological Heritage (Council) to conduct Phase I, Phase II, Phase III studies and Archaeological Monitoring of Projects.

This scope of work is divided into six (6) sections and one (1) appendix. The section following this preamble includes a brief description of the project area and discusses the proposed construction work. In the third section the archaeological potential of the project area is discussed. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan, and the last section includes the references cited. The plan closes with an appendix with a model of a monitoring daily activity sheet.

II. PROJECT DESCRIPTION

The proposed works are the remodeling of the existing plaza walkways, small structures, fountains, and gardens including the replacement of all existing light posts, benches and trash receptacles, reconstruction of two existent kiosks and the construction of a stage. Also, access will be improved so that people with physical disabilities can access the plaza and participate in activities aimed at this population. This project will reactivate the flow of people to the urban area. Finally, this project aims to improve the aesthetics of the urban center by building a modern square that in turn is integrated with the historic buildings that are around it.

The undertaking aims to provide an articulated urban space for gatherings, ceremonies & festivals. The remodeled plaza will offer new family-oriented urban amenities that will assist in reactivating the town center while creating an attraction for moving into the urban area. This Plaza was rebuilt in 2004 and then in 2016. However, it retains its original use, size & configuration as a plaza. All the new facilities and amenities now proposed are akin to those uses and the size of the plaza is also the same with slightly rectangular shape.

The following ground disturbing activities are proposed:

a. The project reconfigures green areas to add more vegetation and reforestation.
b. Paved areas are reconfigured to better interact with amenities and facilities of existing and proposed urban infrastructure.

c. New and additional street furniture to offer more recreational areas in shaded areas, including existing pieces/monuments for operation within the new configuration. As per the proposed road Improvements as per 90% plans on page AS01.
d. Lighting of public space is improved with modern and more efficient technology.
e. Ramps and crosswalks are improved in compliance with current laws and codes.
f. The original, orthogonal shape of the square is respected.
g. The new plaza furniture is proposed in line with the programming of uses and atmosphere proposed. The benches are made of durable material, located within covered or partially covered areas. Different pavements will be used to demarcate areas with defined uses and aesthetic results of great value, in complement to the urban furniture to be proposed. The same happens with lighting luminaires.
h. Existing kiosks to remain, sculptures of the Veterans Monument to be relocated within the square from the southwest corner of the plaza to the northeast corner per the 90% plans. Concrete flooring, erected in 2016, to be removed. The sculptures and signage will require footings of 18-inches deep. No acoustic shells, platforms or stands are proposed in the project. Two garden pavilions with pergolas will be added to the plaza and they are centered on the north and south. The pergolas will require footings of 2-feet deep.
i. Vegetation: Trees, shrubs, and flowers define zones within the space of the square; therefore, the landscape treatment must retain height and leafiness of the trees in close proportion between the surrounding buildings and their height at which it will not be greater than a four-story building. They will be oriented in such a way that a cone of shade is obtained that protects the rest areas. The addition of three-foot hedge systems will prevent the destruction of meadows/flowers that are to be planted.
j. The estimated depths of ground disturbance are approximately 2 feet, and the utilities will be located near where previous ground disturbance has been already located.

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 as on this definition and the nature and scope of the Undertaking, the Program has determined that the Plaza is 0.933227acres or 40,651.36 square feet and the direct APE which also includes the viewshed of the proposed project, is defined by the surrounding streets and corners and up to the facades of the buildings on the opposite streets for a total of 1.74 acres or 1,102.80 square meters.

The Municipal Plaza Juan Jiménez Mesa is located at 17.972382; -66.907862, on 25 de Julio Street (State Road PR-332) Municipality of Guánica, PR. Like most public squares, it is surrounded by mostly institutional buildings. To the East the New City Hall, built around 2006, faces plaza across 25 de Julio Street (heavily damaged during 2020 earthquake cluster event, to be demolished). To the South the Old City Hall building (built in 1921, currently used as a museum) is on the corner of 25 de Julio & Del Rosario streets, while early 20th century concrete and wood private residences complete the block up to the corner of Dr. Veve street. To the West Colegio Beata Imelda catholic school (built in 1955) & Antonio Abad parish church (built in reinforced concrete in 1953, in same location of timber & mortar

church was ca. 1910) completes the block along Dr. Veve street. At the northwestern corner of 65 de Infantería & Dr. Veve streets the NRHP-listed James Garfield Graded School (built in1903 with an addition in 1926) is located. To the North the María Luis McDougall elementary school (built ca. 1925) & the Dr. Nestor Frontera Tacoronte building (an early 20th century masonry structure converted into medical offices) faces plaza along 65 de Infantería Street.

This type of project could impact the area during its progress, through possible sedimentation of existing rainwater systems, emission of fugitive dust, temporary interruptions of both vehicular and pedestrian traffic, as well as temporary inaccessibility to parking areas along the right-of-way. To this end, coordination will be carried out with the Municipality of Guánica, its municipal police force, and other government agencies with jurisdiction over the project to establish a mitigation plan for controlling fugitive dust and sedimentation to the existing rainwater system, as well as a temporary coordination plan for vehicular and pedestrian traffic.

Undertaking is the direct APE (plaza)and is demarcated by North 65 de Infantería Street to the north, 25 de Julio (PR-332) Street to the east, Del Rosario Street to the south, and Dr. Veve Street to the west. The Lambert coordinates in the NAD83 system of the property are X=149737.0523, Y=215455.1267 (LAT 17.97238227 LON -66.90786221). The depths of ground disturbance in the APE are approximately 2 feet.

The Plaza is 210'-0" (64 meters) on east-west direction by 195-0" (59.5 meters) on north- south direction with an approximate surface area of 40,990 square feet (3,809 square meters), while direct APE is 275'- 0" (83.8 meters) on east-west direction by 256-0" (78 meters) on north-south direction with an approximate surface area of 75,570 square feet (7,023 square meters). The streets measurements including both sidewalks to the plaza are 45 feet wide x 518 feet long on 65 de Infantería Street, 30 feet wide x 480 feet long at Del Rosario Street, 42 feet x 328 feet long at Dr. Veve Street, and 30 feet x 298 feet long at 25 de Julio (PR-332) Street.

The Indirect APE includes the opposite street facades around the Plaza and the corner street facades as shown on the Area of Potential Effect aerial map. Located inside the Guánica Traditional Urban Center, the plaza space itself is NRHP-eligible. The types of properties that surround the Plaza are commercial, residential, government offices such as Municipal Hall on the west side, entertainment buildings such as the Pedro Juan Vargas Museum to the south, and an elementary school building to the north. The properties are mainly one- or two-story buildings made of concrete, masonry, or Wood frame with either concrete roofs or corrugated metal roofs that date from the late Nineteenth Century to mid Twentieth Century.

III. ARCHAEOLOGICAL POTENTIAL AND HISTORIC PROPERTIES

The information below is taken from the Section 106 NHPA Effect Determination Form completed by architect Heidi J. Dillan and archaeologist Federico L. Freytes in 2023.

The municipality of Guánica has four properties listed in the National Register of Historic Places: Yauco Battlefield, Guánica Lighthouse, Santa Rita Hacienda, and James Garfield School. These sites are intimately related to the municipality's foundation, the development of the 19th-century sugar

industry, and the arrival of USA troops in 1898. One of them, the James Garfield School is 0.03 miles north of the APE. Twenty-five precolonial and historic sites have been identified within the municipality. Fifteen sites contained both pre-Columbian and historic materials; the remaining ten are exclusively historic.

The Plaza Pública Juan Jiménez Mesa is a historic property eligible to the NRHP. The town plaza is associated with the development of the town and events that have made a significant contribution to the broad pattern of history. It is also a contributing urban space within the eligible historic Guánica Traditional Urban Center. The town square retains the scale, ambiance and street relation that reflects the tradition of the life of the Guánica town. The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

IV. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition and excavations. Those construction activities that do not entail excavations or earth movements do not require an archaeological monitor.

A. Before Construction Begins

1. The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor). The GM shall notify the SHPO and PAE of the construction start date and the archaeology company charged with implementing this Plan.

2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.

3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.

4. The Monitor will document the historic properties (NRHP-listed and eligible) located within

the project's area of potential effects by means of verbal descriptions and photographs. This documentation shall be included as an appendix to the first weekly report. This report will be submitted to the PAE with the first monthly report.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor. In the event of simultaneous excavations in different areas of the project, an archaeologist should be assigned to each area.

2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.

3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (Appendix A). These Forms will be attached to the final report as an appendix. These forms should be send weekly to the GM for review.

4. A monthly report will be prepared, including photos of the area of interest. The report shall be emailed to the GM during the week following the month in which the monitoring was conducted. The PRDOH or the GM on behalf of PRDOH will be responsible for submitting the report to the SHPO and the PAE.

5. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-8 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.

    a. The documentation may require extending the contractor excavations to expose and define the finds. Associated stratigraphy will be documented and representative samples of associated artifactual material will be recovered. For structural remains, construction materials and techniques will be documented. The controlled units may vary in size according to the nature and dimensions of the archaeological find. These will be excavated by strata, cultural or natural, with vertical and horizontal control. When warranted, the removed soil will be sifted through ¼ inch mesh. The recovered artifactual material will be bagged and labeled by specific origin. It shall proceed in accordance with the protocol included in item B-9.

6. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.

7. If the identified archaeological remains are considered historically significant– i.e., complex structures, precolonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the PAE, and the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:

    a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains (in other words, an evaluation of significance and integrity).

    b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.

    c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.

    d. The GM shall notify the SHPO and PAE of the NRHP-eligibility determination.

        i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and PAE and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO or PAE disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.

        ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and PAE, and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO or PAE makes a timely objection within 48 hours of the notification.

        iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a

Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm), the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance, and Regulation #8932. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO and PAE for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).

8. If architectural features are found, as far as possible, the finding should be preserved and protected, and every effort should be made to adapt the design of the project and avoid negative impact to the finding.

9. Processing of archaeological artifacts, if any, will be conducted concurrently with the field work. A summary of these activities shall be included in the monthly report. Artifacts shall be curated and processed in accordance with the standards set forth in 36 CFR Part 79 Curation of Federally- Owned and Administered Archaeological Collections.

    a. Artifacts shall be washed and sorted. Materials such as ceramics, lithics, shell, bone, glass, metal, and others, should be subject to general analysis considering aspects such as material, manufacture, style, function, type, variety, use, and others. Due to their nature, some of these materials require specialized analysis such as studies of malacology, zooarchaeology, bioarchaeology, among others, which should be carried out by specialists. The classification scheme used in the classification will be chosen by the archaeologist according to the context, type of material recovered and previous experience. The classification scheme shall be referenced with available bibliographic references.

    b. The materials laboratory shall include a quantitative, qualitative, and comparative analysis of all archaeological materials recovered during archaeological monitoring. An inventory of artifacts by category, and a catalog of artifacts by material type shall be prepared.

    c. Photographic documentation shall be made of representative artifacts in the collection.

    d. If necessary, documentary research will be conducted for analysis and interpretation of artifacts and other finds.

e. Samples from strata or from particular cultural elements must be properly packaged, labeled and preserved. The data resulting from their analysis must be included in the final report.

10. If any additional construction activities are added or design changes are made after the project has begun, the CM and PM, prior to performing the work, shall inform the GM and the Monitor. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO and PAE prior to implementation. The SHPO and PAE will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO and PAE has no objection and concurs with the recommendations outlined.

11. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM, and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO and PAE on the recommendations prior to implementation. The SHPO and PAE will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO and PAE has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.

2. The Monitor shall again document the historic properties located within the project's area of potential effects. The condition of the properties should be compared with those documented at the beginning of the project. This documentation shall be included in the final technical report.

3. The Monitor shall prepare an Archaeological Supervision End of Field Report, which shall include the main findings and their location, the methodology used for their excavation and documentation, conclusions on the effectiveness of the archaeological supervision, the integrity and importance of the archaeological resources discovered, meritorious protection aspects and clear recommendations as to the course of action to be followed. It should also include the date of delivery of the Final Report. This report will be delivered to the GM. The GM shall be responsible for submitting it to the SHPO and the PAE. The report shall be submitted to the GM no later than two (2) weeks after completing the archaeological monitoring work.

The GM shall submit the report to the SHPO and PAE no later than one (1) week after receiving it.

4. A Final Archaeological Monitoring Report shall be prepared and submitted by the date stipulated in the End of Field Report. This report shall include a description of the work performed, the construction activities that were archaeologically monitored, and documentation of unexpected finds, if any. It should also include final documentation of the condition of the properties along with a comparison of the final condition of the structures to the initial condition. The report shall comply with Article 10 Section 8 of Regulation #8932, which outlines the content and format it should have.

    a. If the Final Archaeological Monitoring Report cannot be delivered on the established date, an extension of time will be requested from the Council, indicating the reasons why the report cannot be delivered. The request for extension shall be submitted, to the extent possible, fifteen (15) working days prior to the established date. The Council shall reply within fifteen (15) working days, in accordance with the provisions of Article 10 Section 7 of Regulation #8932, setting a final deadline for the delivery of the report. The request for extension of time must be copied to the SHPO.

5. The Principal Investigator will be responsible for retaining his or her original field notes, digital photographs, expert reports, drawings, maps and any other digital photographs, expert reports, drawings, maps, and any other documents associated with the study conducted (including digital files) and shall ensure future reference by other researchers for future reference. If unable to keep these documents, the archaeologist shall deliver them to the PAE.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA and IPRC Regulation #8932, must be followed:

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO and PAE within twenty-four (24) hours of identifying human remains.
5. The services of a physical anthropologist or specialist in bioarchaeology will be required.

V. PROFESSIONAL QUALIFICATIONS

The Monitor must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties.

The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology. In the case of hiring archaeologists and trained technicians to assist in archaeological monitoring, the Principal Investigator must be present for at least 25 percent of the duration of the fieldwork to supervise them.

V. CITED REFERENCES

Advisory Council on Historic Preservation
2009 ACHP recommendations on the recovery of significant information from archaeological sites https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance.

Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico.
2017 *Reglamento para la radicación y evaluación arqueológica de proyectos de construcción y desarrollo.* San Juan: ICP. Reglamento #8932 del 8 de febrero de 2017.

National Park Service
s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines [As Amended and Annotated] Professional Qualification Standards". https://www.nps.gov/history/local-law/arch_stnds_9.htm

s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archeological Documentation". http://www.cr.nps.gov/local-law/arch_stnds_7.htm

Regis Martínez, Eduardo, María Schmid, Virginia Rivera Calderón, and Roberto Muñoz Pando
2024 Puerto Rico 2017 Disaster Recovery, CDBG- DR CRP Program. PR-CRP-000823 section 106 Form

APPENDIX A: MONITORING DAILY ACTIVITY SHEET

	PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM: PRDOH CITY REV PROGRAM ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location (Street Address):
City:	Project Coordinates:

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a
Work Hours:

Description of work performed by contractor and supervised by the Monitor:

	YES	NO
Was an archaeological remain documented during the day. If yes, include required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

-1-

..

	PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM: PRDOH CITY REV PROGRAM ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location (Street Address):
City:	Project Coordinates:

Site Photos	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	

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

Monday, August 26, 2024

Lauren B Poche

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

SHPO-CF-06-04-24-13 PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Dear Ms. Poche,
Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended), 36 CFR Part 800: Protection of Historic Properties and the Programmatic Agreement executed in 2016, as amended.
After a review of all the documentation, the SHPO agrees with your finding that the proposed project with the established conditions, will have no adverse effect upon historic properties:
1. Historic properties are located near the APE and its viewshed, but none will be adversely affected by the proposed project. Archaeological monitoring of any ground disturbing activities and excavations. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval of appropriateness for implementation.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

July 29, 2024

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

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

Re: SHPO-CF-06-04-24-13 - PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – Additional Information Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico PRDOH and the subrecipient, the Municipality of Guánica, we thank you for your email correspondence dated July 3, 2024. In that correspondence, the following information was requested in order for the SHPO to fulfill its legal responsibilities:

1. Project information:
    a) Schematic or preliminary drawings of the proposed general facades and sections, that show the proposed project design saved as a PDF file.

In response to your requested, we are providing the Proposed Architectural Details Drawing showing the proposed designs against the backgrounds of all four streets that border the public plaza. The drawings illustrate how the removal of the current stage in the center of the plaza (although offset to the north) will once again allow visitors to walk freely through the center of the plaza and will no longer obstruct the view of the Esceula Maria Luisa McDougall school to the north of the plaza. While new garden pavilions are proposed to be centered at the north and south entrances in to the pavilions, the provided drawings show that they will not be solid and still allow the visitors to see the buildings behind them. We are hopeful that these drawings and renderings assist the SHPO will fully assessing the proposed undertaking.

Please note that the east elevation section depicts the now-demolished 2007 city hall in the background; the city hall was present when the project was initiated but was demolished early summer 2023 due to structural damage from the 2020 earthquakes. Additionally, a new conceptual city hall (not part of the proposed projet) is depicted in the provided birds-eye conceptual rendering.

Based on the provided drawings, rendering, and Effect Determination Form, the Program has determined that the proposed undertaking will have **no adverse effect** to historic properties, **conditioned** to archaeological monitoring during ground-disturbing activities. If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval. We look forward to your response and feedback.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns you may have.

Kindest regards,



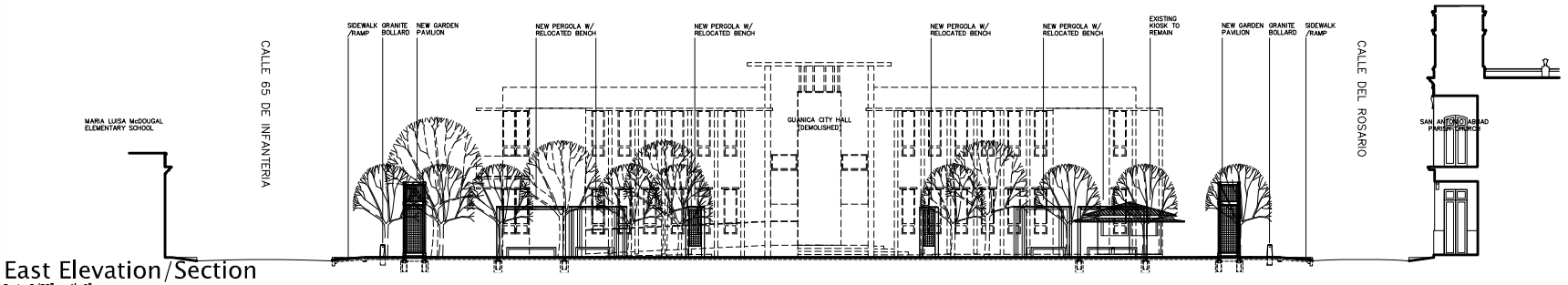
Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
Attachments

PR-CRP-000823

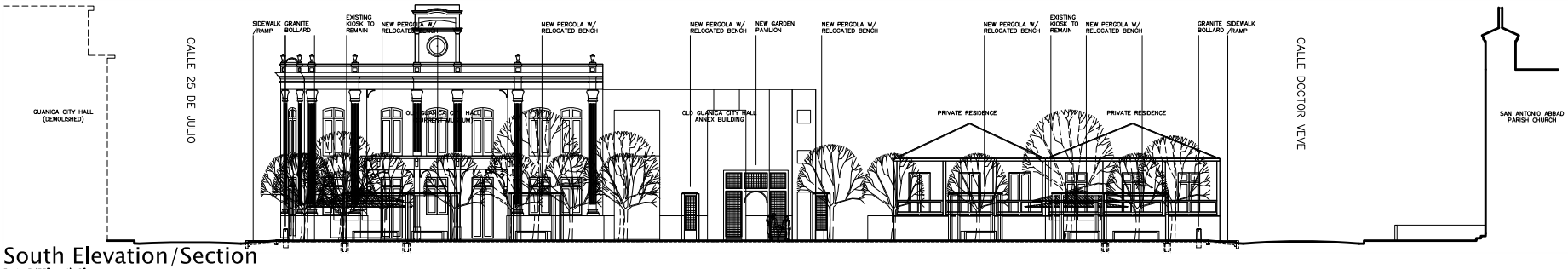
Remodelación de la Plaza Pública Manuel Jiménez Mesa Project

Guánica, Puerto Rico

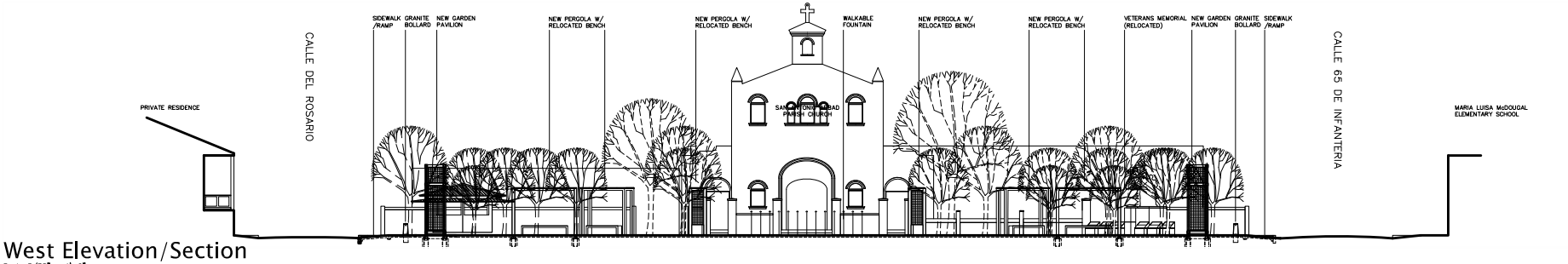
Schematic Drawings with the Proposed Project Design against the Surrounding Blocks



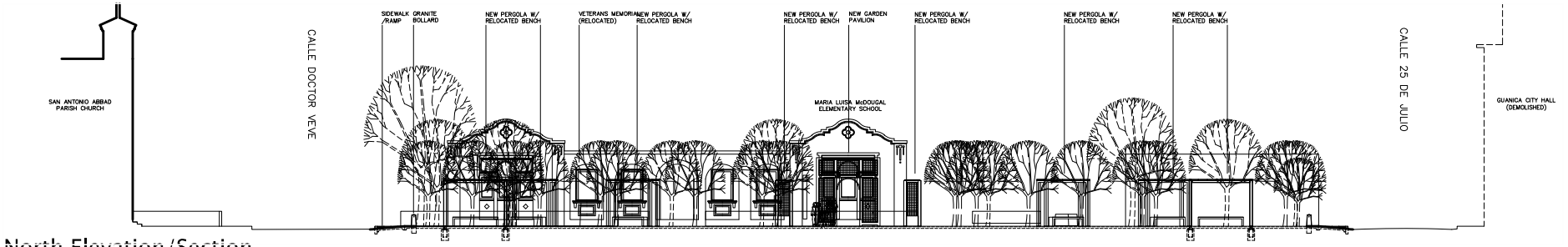
East Elevation/Section
Scale 3/32" = 1'-0"



South Elevation/Section
Scale 3/32" = 1'-0"



West Elevation/Section
Scale 3/32" = 1'-0"



North Elevation/Section
Scale 3/32" = 1'-0"

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-3785
1.787.466.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
T 787 821-2777

#	fecha	descripcion	por
1	06.15.24	Elevaciones/secciones generales	

Desarrollo Documentos Construccion
Detalles Arquitectonicos Propuestos

drawn by EH drawing sheet number:
checked by EH
file 2226 A001
plot scale 1=1
trg num 22260

AS03

PR-CRP-000823

Remodelación de la Plaza Pública Manuel Jiménez Mesa Project

Guánica, Puerto Rico

Conceptual Rendering, Birds-eye View


trg
architects
REMODELACION PLAZA JUAN JIMENEZ MESA
PR-CRP-000823
CALLE 25 DE JULIO & 65 DE INFANTERIA BARRIO PUEBLO GUANICA, PR
HONORABLE ISMAEL RODRIGUEZ RAMOS, ALCALDE
GOBIERNO MUNICIPAL DE GUANICA PO BOX 795 GUANICA, PUERTO RICO 00653

Información Adicional Proyecto OECH - SHPO-CF-06-04-24-13

notifications PRSHPO <notifications@prshpo.pr.gov>

Wed 7/3/2024 7:04 PM

To:Lauren Poche <Lauren.Poche@horne.com>

CAUTION: This email is from an external sender. Do not click links or open attachments unless you recognize the sender and know the content is safe.

SHPO
OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA
OFICINA DEL GOBERNADOR
STATE HISTORIC PRESERVATION OFFICE
OFFICE OF THE GOVERNOR
OECH

Información adicional

La Oficina Estatal de Conservación Histórica le solicita información adicional de su proyecto **SHPO-CF-06-04-24-13** para completar la evaluación.

Resumen:

Núm. de referencia: SHPO-CF-06-04-24-13
Nombre del proyecto: PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Descripción del proyecto:
The Municipality of Guánica proposes to rehabilitate the Plaza Manuel Jiménez and the four bordering streets.

Costo: $4,054,735.60
Municipio: Guánica
Fecha de envío para evaluación / Fecha de sometimiento: 04 Jun 2024
Fecha límite para evaluación: 04 Jul 2024

Comentario:
Dear Mrs. Poche, Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects. In order for the SHPO to fulfill its legal responsibilities, it is necessary that you provide us with the following documentation: 1. Project information: a) Schematic or preliminary drawings of the proposed general facades and sections, that show the proposed project design saved as a PDF file. If you have questions regarding this matter, please contact our Office at (787) 721-3737 or email, ediaz@prshpo.pr.gov.

Para cualquier consulta o estatus de la evaluación visite el portal: www.oechpr.com

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

6/4/2024

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

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

Section 106 NHPA Effect Determination Submittal for PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional $8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH and the subrecipient, the Municipality of Guánica, we are submitting documentation for the proposed Remodelación de la Plaza Publica Juan Jiménez Mesa Project. The Municipality of Guánica proposes to renovate the existing plaza and surrounding streets through the demolition and replacement of Plaza level finishes, sidewalk pavements, concrete slabs, and a concrete platform, the improvement of ramps and crosswalks and repaving of the surrounding streets. Low wall planters will be demolished, trees relocated with new landscaping and plantings planned. Thirty-two existing light fixtures will be removed, and replaced with 24 new LED light fixtures, 40 bollards with integrated lighting, and 52 new low ambient light fixtures. A new play yard, new and additional street furniture, new pergolas and gazebos, and a new walking trail are planned. Existing kiosks will remain, while existing monuments will be relocated to different locations within the plaza. The existing fountains will be demolished. A new walk-through fountain, pump house with new pump equipment, pump module foundation, misters at the garden gazebos, storm sewer system, and cistern is also proposed. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% construction plans.

Based on the provided documentation, the Program requests a concurrence with a determination that "No Adverse Effect" is appropriate for this undertaking, conditioned to archaeological monitoring during ground-disturbing activities.

If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@horne.com.

Kindest regards,



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

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	
Subrecipient: Municipality of Guánica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jiménez Mesa	

Project Location: Proposed site & architectural improvements at 25 de Julio Street (State Road PR-332) corner of 65 Infantería Street, Pueblo Ward Municipality of Guánica, Puerto Rico	
Project Coordinates: 17.972382, -66.907862	
TPID (Número de Catastro)**:** 407-085-059-01	
Type of Undertaking: ☒ Substantial Repair/Improvements ☐ New Construction	
Construction Date (AH est.): Ca. 1920	**Property Size** (acres)**:** 1.74 acres

SOI-Qualified Architect/Architectural Historian: Eduardo A. Regis Martinez / Maria Schmid
Date Reviewed: December 21, 2022 / December 6, 2023/ February 8, 2024/ May 6, 2024.

Virginia Rivera Calderón

SOI-Qualified Archeologist: Virginia Rivera Calderon/ Roberto G. Muñoz-Pando, PhD
Date Reviewed: June 13 ,2023 / December 8, 2023/ February 2, 2024/ May 6, 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. Activities related to this project will be done in a manner that does not meet Stipulations outlined in the Programmatic Agreement.

Project Description (Undertaking)

The following information is provided for Proposers to consider and estimate necessary resources and activities to develop the Project. Proposers shall consider that all activities shall be performed in compliance with the Community Development Block Grant for Disaster Recovery (**CDBG-DR**) Program policies set for the City Revitalization Program (**City Rev Program**) as approved by the U.S. Housing and Urban Development (**HUD**).

The Municipal Plaza is located at Avenida 25 de Julio, Guánica, coordinates: 17.972382°, -66.907862°

The following information shall be considered to understand requirements and identify necessary studies and design of the Project:

a. The Municipality of Guánica wants to renovate the existing Municipal Plaza. The project is a public facility that is in the center of the urban area of the Municipality. The Plaza has a footprint of 0.933227acres or 40,9946.4 square feet. The APE including the streets and street corners have a total footprint of 1.74 acres or 1,102.80 square meters

b. The works proposed are the remodeling of the existing plaza walkways, small structures, fountains, and gardens including the replacement of all existing light posts, benches and trash receptacles, reconstruction of two existent kiosks and the construction of a stage. Also, access will be improved so that people with physical disabilities can access the plaza and participate in activities aimed at this population. This project will reactivate the flow of people to the urban area. Finally, this project aims to improve the aesthetics of the urban center by building a modern square that in turn, is integrated with the historic buildings that are around it.

The undertaking aims to provide an articulated urban space for gatherings, ceremonies & festivals. The remodeled plaza will offer new family-oriented urban amenities that will assist in reactivating the town center while creating an attraction for moving into the urban area.

This Plaza was rebuilt practically in its entirety by 2004 and then in 2016, any vestige of its original environment, dating from around 1920, was lost. The property is demarcated within the confines of a Public Facility (DT-P) as established in the Land Classification Map for the Municipality of Guánica, sheet 38 effective June 2, 2010. The property retains its original use, size & configuration as a plaza. All the new facilities and amenities now proposed are akin to those uses and the size of the plaza is also the same with slightly rectangular shape.

The Municipality of Guánica is interested in the remodeling of the Plaza Juan Jimenez Mesa to update its urban infrastructure program to modern operational standards. All such improvements and repairs must comply with state and federal design parameters for public spaces and that they do not negatively impact the historical/urban environment before the ICP and the State Office of Historic Preservation. The original, orthogonal shape of the square is respected.

The following ground disturbing activities are estimated as per Construction Cost Estimate Document and Page DS01, Page AS01, Page AS02 of the 90% Construction Plans:

a. The project reconfigures green areas to add more vegetation and reforestation to the Plaza. For this, there will be demolition of low wall planters, removal of six trees for relocation, and the removal and discard of one tree. The 90% improvement plans propose one new landscaping/planting, the relocation of six trees, and planting of 16 new trees. Since there are no landscaping plans in the 90% design, it is assumed that an estimated 3' depth for excavation and removal of trees will take place according to the 60% plans.

b. Paved areas are reconfigured to better interact with amenities and facilities of existing and proposed urban infrastructure. For the Plaza level finishes there will be removal and demolition of sidewalk pavements, demolition of concrete slabs and pavements, and the demolition of a concrete platform. New pavement finish at central plaza area, sidewalks, and ramps will be added. Also, new play yard ground surfaces, new

pedestrian crossings, new granite border coping, new soldier brick joinery, and glazed emblem tiles. These activities will have an estimated depth of ground disturbance of one foot. The existing pavements of the streets surrounding the Plaza will be scarified to add new on-ground concrete slabs, new sidewalks, ADA ramps, and new asphalt finish will have an estimated depth of ground disturbance of one foot.

c. New and additional street furniture to offer more recreational areas in shaded areas, including existing pieces/monuments for operation within the new configuration. As per the proposed road Improvements on the 90% plans on page AS01 the existing kiosks are to remain, but there will be removal of 34 benches for relocation, and the removal of bird sculpture installations. Eight new metal pergolas, two new garden gazebos, a new play yard/exercise equipment, and new walking trail is proposed. As per Page AS03 a new Pergola with reinforced concrete base will have an estimated depth of 3'-11" and the New Garden pavilion of 3'-1.5" depth. New granite stone bollards (40) will have an estimated depth of ground disturbance of 1'-6".

d. Lighting of public space is improved with modern and more efficient technology. This will require the removal of 32 existing light fixtures and the installation of 24 new 15' poles with LED light fixtures, 40 new 3' bollards with integrated LED light fixtures, and 52 new low ambient light LED light fixtures. New electrical site work will require 35,950 square feet area, and a new electric meter pedestal with footings of approximately 3 feet deep.

e. Ramps and crosswalks are improved in compliance with current laws and codes. The existing pavements of the streets surrounding the Plaza will be scarified to add new on-ground concrete slabs, new sidewalks, ADA ramps, and new asphalt finish will have an estimated depth of ground disturbance of one foot.

f. A temporary fence will be built for safety during construction around the perimeter of the Plaza and will have wooden fence posts that will be driven in the ground approximately 3'-6" below the surface. The temporary silt fence with fabric will have a minimum of 1' below ground surface. A temporary hose bib wooden post will be driven in the ground approximately 18" below the surface.

g. The new plaza furniture is proposed in line with the programming of uses and atmosphere proposed. The benches are made of durable material, located within covered or partially covered areas. there will be removal of 34 benches for relocation, and the removal of bird sculpture installations. Eight new metal pergolas, two new garden gazebos, a new play yard/exercise equipment, and new walking trail is proposed. As per Page AS03 a new Pergola (reinforced concrete base) will have an estimated depth of 3'-11" and the New Garden pavilion will have an estimated depth of 3'-1.5" depth.

h. Existing kiosks to remain. Sculptures of the Veterans Monument will be relocated within the square from the southwest corner of the plaza to the northeast corner as per the 90%

plans. Concrete flooring, erected in 2016, will be removed. The new Veterans monument base and six information plaques, three on either side of the monument will be relocated to the northeast corner of the Plaza. The New Veterans monument base is approximately 2.3' deep and the six information plaques bases will require footings of 2.75' deep. No acoustic shells, platforms or stands are proposed in the project.

i. Vegetation: Trees, shrubs, and flowers define zones within the space of the square; therefore, the landscape treatment must retain height and leafiness of the trees in close proportion between the surrounding buildings and their height at which it will not be greater than a four-story building. They will be oriented in such a way that a cone of shade is obtained that protects the rest areas. The addition of three-foot hedge systems will prevent the destruction of meadows/flowers that are to be planted. demolition of low wall planters, removal of six trees for relocation, and the removal and discard of one tree. The 90% improvement plans propose one new landscaping/planting, the relocation of six trees, and planting of 16 new trees. The 60% plans note a 3' depth for excavation and removal of trees.

j. Demolition of concrete fountain basin, demolition of pump house and removal of pump equipment is proposed. A new walkthrough fountain with 25 new fountain nozzles is proposed and inlcudes: a new pump house with new pump equipment, and new pump module foundation. New misters at the garden gazebos, new storm sewer system, and a new cistern is also proposed (See Page AS03). The fountain nozzles have an esitmated 1'-3" depth to connect to an exisitng water line. The total depth of ground disturbance for this feature is approximately 2'-11". A new trench for storm sewer pipes (on Page C-6 and C-9) requires excavation of approximately 8' deep of ground disturbance. The utilities will be located near where previous ground disturbance has been already located. Details of the pump and cistern are on page P-201. These drawings are not to scale, so the depths are estimated.

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 as on this definition and the nature and scope of the Undertaking, the Program has determined that the Plaza is 0.933227acres or 40,651.36 square feet and the direct APE which also includes the viewshed of the proposed project, is defined by the surrounding streets and corners and up to the facades of the buildings on the opposite streets for a total of 1.74 acres or 1,102.80 square meters.

The Municipal Plaza Juan Jiménez Mesa is located at 17.972382; -66.907862, on 25 de Julio Street (State Road PR-332) Municipality of Guanica, PR. Like most public squares, it is

surrounded by mostly institutional buildings. To the East the New City Hall, built around 2006, faces plaza across 25 de Julio Street (heavily damaged during 2020 earthquake cluster event, to be demolished). To the South the Old City Hall building (built in 1921, currently used as museum) is on the corner of 25 de Julio & Del Rosario streets, while early 20th century concrete and wood private residences complete the block up to the corner of Dr. Veve street. To the West Colegio Beata Imelda catholic school (built in 1955) & Antonio Abad parish church (built in reinforced concrete in 1953, in same location of timber & mortar church was ca. 1910) completes the block along Dr. Veve street. At the northwestern corner of 65 de Infanteria & Dr. Veve streets the NRHP-listed **James Garfield Graded School** (built in1903 with an addition in 1926) is located. To the North the Maria Luiss McDougall elementary school (built ca. 1925) & the Dr. Nestor Frontera Tacoronte building (an early 20th century masonry structure converted into medical offices) faces plaza along 65 de Infantería Street.

This type of project could impact the area during its progress, through possible sedimentation of existing rainwater systems, emission of fugitive dust, temporary interruptions of both vehicular and pedestrian traffic, as well as temporary inaccessibility to parking areas along the right-of-way. To this end, coordination will be carried out with the Municipality of Guánica, its municipal police force, and other government agencies with jurisdiction over the project to establish a mitigation plan for controlling fugitive dust and sedimentation to the existing rainwater system, as well as a temporary coordination plan for vehicular and pedestrian traffic.

Undertaking is the direct APE (plaza)and is demarcated by North 65 de Infantería Street to the north, 25 de Julio (PR-332) Street to the east, Del Rosario Street to the south, and Dr. Veve Street to the west. The Lambert coordinates in the NAD83 system of the property are X=149737.0523, Y=215455.1267 (LAT 17.97238227 LON -66.90786221). The street measurements also correspond to the visual APE from its longest street sides of 334.54 feet long to 305.09 feet wide.

The Plaza is 210'-0" (64 meters) on east-west direction by 195-0" (59.5 meters) on north- south direction with an approximate surface area of 40,990 square feet (3,809 square meters), while direct APE is 275'-0" (83.8 meters) on east-west direction by 256-0" (78 meters) on north-south direction with an approximate surface area of 75,570 square feet (7,023 square meters). The streets measurements including both sidewalks to the plaza are 45 feet wide x 518 feet long on 65 de Infantería Street, 30 feet wide x 480 feet long at Del Rosario Street, 42 feet x 328 feet long at Dr. Veve Street, and 30 feet x 298 feet long at 25 de Julio (PR-332) Street.

The Indirect APE includes the opposite street facades around the Plaza and the corner street facades as shown on the Area of Potential Effect aerial map and its viewshed. Located inside the Guánica Traditional Urban Center, the plaza space itself is NRHP-eligible. The types of properties that surround the Plaza are commercial, residential, government offices

such as Municipal Hall on the west side, entertainment buildings such as the Pedro Juan Vargas Museum to the south, and an elementary school building to the north. The properties are mainly one- or two-story buildings made of concrete, masonry, or Wood frame with either concrete roofs or corrugated metal roofs that date from the late Nineteenth Century to mid Twentieth Century.

Identification of Historic Properties – Archaeology

Cultural Setting

The territory of the municipality of Guánica has an extension of 37.1 square miles, 96.2 square kilometers, and is located on the southwestern coast of the island. This municipality is divided into the following districts: Arena, Caño, Carenero, Ciénaga, Ensenada, Montalva, Pueblo, and Susúa Baja. It is mostly flat, with some small elevations. The tallest hill is Lajara, with a height of 178 meters; followed by Abra, Las Lomas de Seboruco, and El Peñón. Montalva Hill, Las Pardas Mountains, and Brea Mountains are all less than 100 meters high. Its coast has Punta Ballena, in front of which the cays of Caña Gorda, Punta Jacinto, Guánica Bay, Las Pardas Cove, Brea Points, Frontón de la Brea, Hunchback, and Bishop's Point are visible. The Terremoto and Don Luis cays are located between Hunchback and Bishop's Point. The Guánica Dry Forest is in the coastal zone and is unique in the world for its diversity of trees, which are about 700 species. Guánica Bay divides the forest into two segments, encompassing about 4,000 hectares. The mangroves add up to about 72 hectares of red mangrove. Its hydrography is highlighted by the Loco River, which originates in Yauco and enters Guánica from the northeast, emptying into Guánica Bay. The Guánica Lagoon is almost completely sedimented. These geographic characteristics allowed Guánica to become an area that was early populated. It has an interesting pre-colonial history and a rich colonial life both from the 19th century and the stage that began with the American intervention of 1898.

The municipality of Guánica has 4 Sites included in the National Register of Historic Places, which are: **Yauco Battlefield, Guánica Lighthouse, Santa Rita Hacienda, and James Garfield School**. These sites are intimately related to the municipality's foundation, the development of the 19th-century sugar industry, and the arrival of Americans in 1898. Twenty-five pre-Columbian and historic sites have been identified within the municipality. Fifteen sites contained both pre-Columbian and historic materials; the remaining ten are exclusively historic (both sites and architectural resources).

Considering that Guánica is a coastal municipality with a rugged topography, it is not surprising that there is a significant number of sites inherited by the indigenous people where petroglyphs, lithics, ceramics, shells, and mollusks are identified. Additionally, the architectural richness of the late 19th and early 20th centuries can be seen in the buildings of Hacienda Santa Rita in the Susa Baja district and Hacienda Igualdad in the Caño district.

Likewise, the Guánica Lighthouse and Caprón Fort, both in the Carenero district, recall the military and defensive importance of this beautiful point in the southwest area of Puerto Rico.

The pre-colonial memories are still intact on the rocks of the coasts of the Municipality of Guánica. While the interesting modern history places Guánica as a protagonist of two decisive moments for the development of Puerto Rico, the rise of the Sugar Industry and the arrival of the American army, it allows the identification of historical sites of indescribable importance.

The present municipality of Guánica, like most of the rest of the island of Puerto Rico, was inhabited by groups including the *Taínos*, the natives that greeted Columbus and the first Europeans to set foot in the Caribbean. Coastal areas of Puerto Rico are generally rich in archaeological potential. Therefore, the APE is in an area that has the potential for precolonial archaeological resources.

Table 1 of Archaeological and Historical Sites within a quarter-mile buffer of the APE:

Name	SHPO ID #	IPRC ID #	Distance/ Direction	Description	NHRP (listed, ligible, non-eligible, earring, no data)
Escuela James Garfield	GA-0200010	GA-25	0.03 miles/ north	Historic, Institutional, 20th Century. Built in 1903 and repaired between 1910 and 1926 where its structure was expanded. Consisting of one floor, seven classrooms, L-shaped, bricks, masonry and neoclassical concrete, flat metal construction with parapet. Oldest School in Guánica.	Listed: 15000275
San Antonio Abbot Parish	GA-0200008	GA-23	0.03 miles/ west	Historic. Religious, 19th and 20th Century. Located on Dr. Veve Street opposite the Public Square. It was originally built in the late 19th century (1876). It was built as part of the demands of the Guaniqueno people on their separation from the Municipality of Yauco.	Earring

				Several renovations have been carried out.	
Museum of Art and History	GA-0200009	GA-24	0.03 miles/ south	Historic, Institutional, and 20th Century. Located on the corner of 25 de Julio Street and Carlos A. del Rosario Street, the current Museum of Art and History was once the Guánica City Hall in previous decades, with a building that dates to 1921. After restoration, it opened its doors as a museum on March 12, 2006. It also serves as the headquarters of the Office of Art, Culture, and Tourism.	Earring

Summary of Table 1

This table represents the three historic sites within a quarter mile radius of the APE. None of the three of them are expected to be adversely affected by the proposed project as described in the Architecture section of this form. The most important information about these sites is summarized in the table.

Table 2 of Previously Conducted Cultural Resources Surveys within a quarter mile buffer of the APE

Author	Title/ Phase	Location/ Direction	SHPO/ IPRC #	Year	Results
Eduardo Questell Rodríguez	Centro Comercial PR-333/ Phase 1A-1B	0.15 miles northeast	ICP/ CAT-GN-03-04-06	2003	Negative
Jesús F. Figueroa Lugo	Escuela Superior Urbana/ Phase 1A- 1B	0.21 miles northeast	ICP/ CAT-GN-90-01-06 SHPO/ 02-02-90-14	1990	Negative
Antonio	Parque de Bombas	0.24 miles	ICP/ CAT-GN-98-03-05	1998	Negative

Daubón Vidal	Carretera PR-333/ Phase1A-1B	northeast			
Harry E. Alemán	Indoor court, passive park, and Little League Park/ Phase 1A- 1B	0.04 miles northwest	SHPO/ 03-31-86-03	1986	Negative
Adalberto Maurás Casillas	New Municipal Government Center/ Phase 1A- 1B	0.03 miles east	ICP/ CAT-GN-04-01-05	2004	Negative
Marisol Rodríguez Miranda	Widening PR-116/ Phase 1A-1B	0.03 miles south	ICP/ CAT-GN-97-03-03	1997	Positive
Luis Antonio Curet	Expansion and Improvement of Used Water Treatment Plant/ Phase 1A- 1B	0.19 miles west	SHPO/ 02-28-88-02	1988	Positive
Jesús E. Vega	Salinas- Providencia Sanitary Line	0.22 miles southwest	ICP/ CAT-GN-04-05-03	2004	Positive

Summary of Table 2

During our research in the State Historic Preservation Office (SHPO) and Institute of Puerto Rican Culture (IPRC), we found a total of eight archaeological research surveys within the quarter mile buffer of the APE.

The following Cultural Resource Surveys yielded negative results. In 2003, Eduardo Questell Rodríguez authored "Centro Comercial PR-333/ Phase 1A-1B" located 0.15 miles northeast of the APE at its closest point. Its IPRC number is ICP/ CAT-GN-03-04-06. In 1990, another study, authored by Jesús F. Figueroa Lugo, titled "Escuela Superior Urbana/ Phase 1A- 1B." It is located 0.21 miles northeast of the APE at its closest location. Its ICPR and SHPO numbers are ICP/ CAT-GN-90-01-06 and SHPO/ 02-02-90-14. In 1998, a study authored by Antonio Daubón Vidal, was conducted 0.24miles northeast at its closest point to the project area. It was titled "Parque de Bombas Carretera PR-333/ Phase1A-1B" and its IPRC number was ICP/ CAT-GN-98-03-05. In 1986, a study authored by Harry E. Alemán was located 0.04 miles northwest of the APE at its closest point. It was titled "Indoor court, passive park, and Little League Park/ Phase 1A- 1B" and its SHPO number is SHPO/ 03-31-86-03. In 2004, Adalberto Maurás Casillas authored another survey that also yielded negative results. It was located 0.03 miles east at its closest point to the APE and was titled "New Municipal Government Center/ Phase 1A-1B." Its IPRC number is ICP/ CAT-GN-04-01-05.

Only three of these eight archaeological research studies yielded positive results. The first of the positive results surveys on figure 3 is ICP/ CAT-GN-97-03-03. This was a study performed in

1997 by Marisol Rodríguez Miranda titled "Widening PR-116/ Phase 1A-1B" and 0.03 miles south of the project area at its closest point to the APE. Nineteen out of its twenty testing pits had positive results. Twelve shell fragments, a fish spine fragment, and other materials were obtained. Additional studies, monitoring, and protection of areas were recommended. Another one of the positive results turned out at SHPO-02-28-88-02. Luis Antonio Curet authored this study titled "Expansion and Improvement of Used Water Treatment Plant/ Phase 1A- 1B" in 1988. It was located 0.19 miles west of the APE at its closest point. The final investigation of this evaluation concluded that surface tracks and shovel tests resulted negative, except one. Shovel Test #6 resulted in 9 ceramic fragments and a shell. Tests around this showed that the finding is isolated. The third survey with positive results was ICP/ CAT-GN-04-05-03. This survey was authored in 2004 by Jesús E. Vega and titled "Salinas-Providencia Sanitary Line." It was located 0.22 miles southwest of the APE at its closest point. The archaeological materials that can be observed on the surface are redeposit, both by the transport of filling from the quarry north of PR-116 (where an archaeological site in the hills of Abra was impacted), and by the erosion of another archaeological site, immediately east of the Rio Loco and north of the PR-116 bridge. It is recommended not to perform archaeological mitigation, since the archaeological material is extremely limited, impacted, and does not present an opportunity to reconstruct the cultural chronology of the site, or to answer questions that may contribute to the prehistory of the region.

A visual inspection took place on May 6, 2023, by Virginia Rivera's team, to evaluate the current state of the Public Square. Important structures or buildings in its surroundings were documented in directions North, East, South and West. No archaeological artifacts were reported on the surface during that inspection.

The entirety of the APE is in the Traditional Urban Area of the Municipality of Guánica. It is in Urban Land (Ua). The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

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 located within the Traditional Urban Center of Guánica.

Based on the results of historic property identification research efforts, including consulting 1930, 1950,1993, and in 2016 aerial photos, NRHP listings at the Puerto Rico State Historic

Preservation Office (PRSHPO/OECH) website and zoning maps from the Puerto Rico Planning Board (PRPB), some listed, or historically designated property are present within the direct and indirect APE. The conducted research has determined there is one NRHP-listed property within the 1/4-mile buffer zone of the project area. There are fourteen (14) properties that are eligible for listing in the NRHP, eight (8) are located around the Plaza inside the visual APE and six (6) are located outside the visual APE but within the quarter-mile buffer zone.

Guanica' s emblematic buildings such as the **James Garfield Graded School** listed in the NRHP (15000275) in 2015 to the northwest and the Maria Luisa McDougall school potentially eligible to the NRHP located to the north, Parroquia San Antonio Abbad, potentially eligible to the NRHP located to the west and the Museo de Guánica (former Town Hall) eligible to the NRHP to the south. The site is also surrounded by other early 20th century buildings, among others. *(Refer to Viewshed Exhibit #1-#20)*

Description of the Project Property

The **Plaza Pública Juan Jiménez Mesa** is one of these eligible properties within the Guánica historic urban center and is, although architecturally altered, eligible for NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history. The Plaza Publica Juan Jimenez Mesa is located between 25 de Julio Street to the east, 65 Infanteria Street to the north, Dr. Veve Street to the west and Rosario Street to the south. The square was originally an unpaved open square during the 1900's. By 1910 the Plaza was prepared and was paved during the 1920's when concrete institutional buildings started construction around it. The Plaza has had various alterations and additions during the 1950's, in 1993, and in 2016 that affected the integrity of the square's original layout.

Originally known as Quinones square its name changed in 1915 to Plaza de la Independencia (Independence Square) after Guánica is recognized as a separate municipality on March 13, 2014. The 1920 design is attributed to architect Tomas Olivari Santoni who is the same architect of Guánica Old City Hall from 1921. By 1921 the square was already known as Plaza Manuel Jiménez Mesa, perhaps for its financing of its carbide lighting system. (Source Plaza Manuel Jiménez Mesa - Wilbert Pagán, 2014). By 1936 an ornate bandstand was built and was demolished in 1984 during works for remodeling. The Plaza was again remodeled in 1994 and later in 2013 affecting the integrity of the square's original layout. The Plaza Pública Juan Jiménez Mesa is a fundamental part of Guánica's urban center, and the space still has the role of a gathering space for the community.

NRHP-listed and Eligible Properties within the Visual APE:

The one NRHP-listed property within the 1/4-mile buffer zone from the project area is the **James Garfield Graded School** (15000275) located in the 65th de Infantería Street and 0.05 miles northwest of the project area. This listed building is a brick, masonry, and concrete one-level schoolhouse, built in 1903 in Neoclassical Revival style. Charles G. Post was the Architect/Builder of the school, which is the oldest schoolhouse in Guánica, and the first institutional building on the municipality constructed under US authority on the island. The school has an addition in reinforced concrete at the back of the original building from 1926. These additions changed the floor plan to an L-shaped one, however, due to its construction period, they are contributing elements that do not alter the eligibility of the resource to convey its historical significance. The school was listed in the NRHP on 5/26/2015.

The following eight NRHP-eligible buildings surrounds the square:

1. Reinforced concrete two-level Old Guánica City Hall building **Antigua Alcaldía de Guánica** was built in 1921, its design attributed to architect Tomas Olivari Santoni in the Mannerist revival style. After relocating the municipal offices to the new city hall, this building is currently used as the Pedro Juan Vargas Mercado Art & History Museum. The property is eligible/contributing under NHPA Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history; and under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or particular method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

2. Reinforced concrete, wood and metal one-level **private residential structure** built in creole (criollo) style adjoining Old City Hall Annex, built ca. 1940 is mostly in original condition. Property eligible/contributing under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

3. Reinforced concrete, wood and metal one-level **private residential structure** built in creole (criollo) style, located in the southeastern corner of Dr. Veve & Del Rosario Street, built ca. 1940. Mostly in original condition, the property is eligible/contributing under NRHP Criterion C because it embodies distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

4. Reinforced concrete, wood and metal roof one-level private **House on Carlos del Rosario Street** built in creole (criollo) style, located at the southwestern corner of Dr. Veve & Carlos

del Rosario Street, built ca. 1940. The exterior was altered (not able to inspect interior). The property is eligible/contributing.

5. Reinforced concrete one-level **Colegio Beata Imelda Catholic School** built in 1955 and designed in Art Deco style, designer unknown. Property eligible/contributing under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or possess high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.

6. **San Antonio Abad Catholic Parish Church**, built in reinforced concrete ca. 1930, in same location of previous wood & mortar church-built ca. 1910 in Spanish colonial style. Designer Francisco Porrata Doria Architect. Although the parish indicated its founding as in 1888, there is some belief it was initially founded outside of the current town core. Property eligible/contributing under NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history. The building is eligible for NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or a particular method of construction, or may represent the work of a master, or that possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction.

7. Brick, masonry, and concrete one-level **Maria Luisa McDougall Elementary School** was built ca. 1930 in the Spanish Revival Style. The designer is unknown. The building was altered, but integrity remains. Property eligible/contributing under NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history; and is eligible for NRHP Criterion C because as it embodies any distinctive characteristics of a type, period, or particular method of construction, or may represent the work of a master, or possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

8. Masonry and concrete early 20th century one-level commercial structure in the Spanish Colonial style, that was converted into medical offices. Known as the **Dr. Nestor Frontera Tacoronte Building**, the property is eligible/contributing under NRHP Criterion C because it embodies distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

Other NRHP-eligible properties within a ¼ mile radius, but not in Visual APE:

9. Reinforced concrete **Guánica Fire Station** (17.972623930588437, -66.9087007430897) built ca. 1940 designed in Modernist style, and currently used as municipal police station.

Located 0.05 miles northwest of the Plaza (APE). Original sign in still in place with the plaque reading: "En Memoria de Don Arturo Chacón Cortés 1881-1951, Servicio de Bomberos de Puerto Rico".

10. Wood and concrete one-level, open bay **Adventist Church** (17.97433999095974, -66.9086134473937) built ca. 1935 in the Neogothic style. The designer is unknown. Located 0.13 miles northwest of the Plaza (APE).

11. **Luis Muñoz Rivera Public Housing Complex** composed of twenty (20) Reinforced concrete three-level buildings (17.97392269593276, -66.9065353440073). Located 0.05 miles northeast of the Plaza (APE). Built ca. 1960 in Modernist style, designer is unknown.

12. Reinforced concrete two-level **Franklin Delano Roosevelt School** (17.971190697348213, -66.9068549385354). Located 0.13 miles southeast of the Plaza (APE). Built ca. 1940 with interventions until 1956, in a Spanish Revival style. Designer is unknown.

13. The **Guánica Municipal Hospital** is a reinforced concrete one-level building (17.97049053897231, -66.90782193233403) currently used as a home for the elderly. Located 0.13 miles south of the Plaza (APE). Built ca. 1940, in a Spanish Revival style designed by Architect Rafael Carmoega.

14. The former **Guánica Civil Defense Building** a reinforced concrete two-level building, (17.972255014898558, -66.90872975374002) currently used as Guánica Municipal Management Office (OMME). Located 0.06 miles west of the Plaza (APE). Built ca. 1920, in the Spanish Revival style. Designer is unknown.

Statement of Determination

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).

- Direct Effect:

The **Plaza Pública Juan Jiménez Mesa** does meet criteria to be eligible to the National Register of Historic Places under Criterion A (history). The town plaza is associated with the development of the town and events that have made a significant contribution to the broad pattern of history. The town plaza is a contributing urban space in the eligible historic Guanica urban district. The town square retains the scale, ambiance and street relation that reflects the tradition of the life of the Guanica town. However, due to the additions and alterations through the years, the Plaza Pública Juan Jiménez Mesa lacks the integrity it had in the past. The Plaza is eligible under Criterion C as it is clearly defined, is significant, and is a distinguishable entity contained by an urban environment.

- Indirect Effect:

The visual and physical associations between the plaza and the immediate built surroundings are one of their character defining features. Per the PRSHPO, the development of plazas as an NRHP type (site) obeys a historic context that should be considered as decisive in defining their patrimonial character.

The entirety of the APE is in the Traditional Urban Area of the Municipality of Guánica. It is in Urban Land (Ua). The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

After further research, historic properties as defined in 36 CFR 800.16(1) are found within the APE. Undertaking actions will have no adverse effect upon any identified historic property nor viewshed that compose the Area of Potential Effect. However, since there is a moderate probability of finding new and undisturbed archaeological sites within the APE, the program recommends an archaeological monitoring of all ground disturbance activities.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM **CITY REVITALIZATION PROGRAM (CITY-REV)** **Section 106 NHPA Effect Determination - Architecture**	
Subrecipient: Municipality of Guánica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jiménez Mesa	

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

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

☐ No Historic Properties Affected

☒ No Adverse Effect

Condition (if applicable): Historic properties are located near the APE and its viewshed, but none will be adversely affected by the proposed project. Archaeological monitoring of any ground disturbing activities and excavations is recommended. A monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

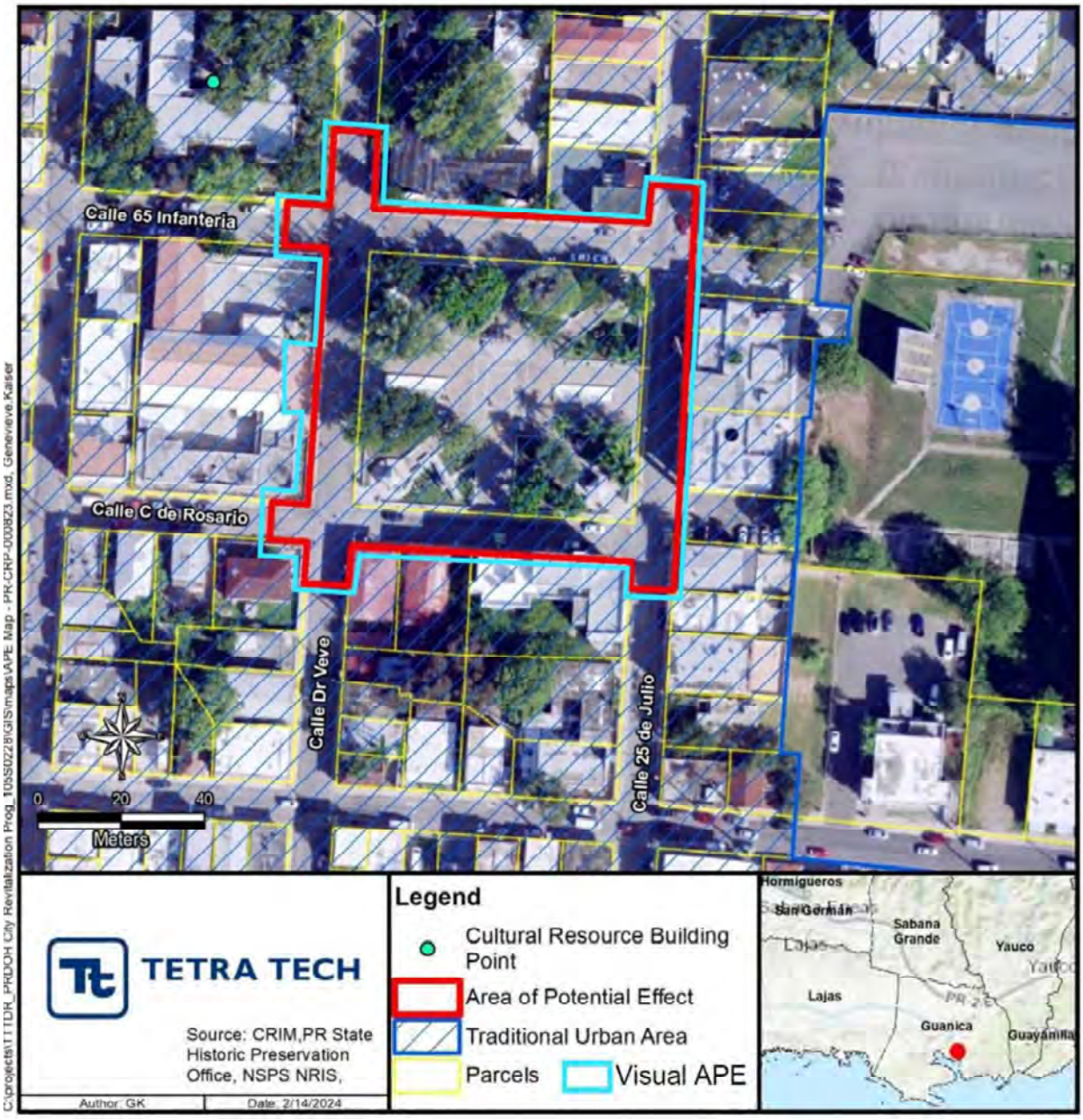
☐ Adverse Effect

Proposed Resolution (if appliable)

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:

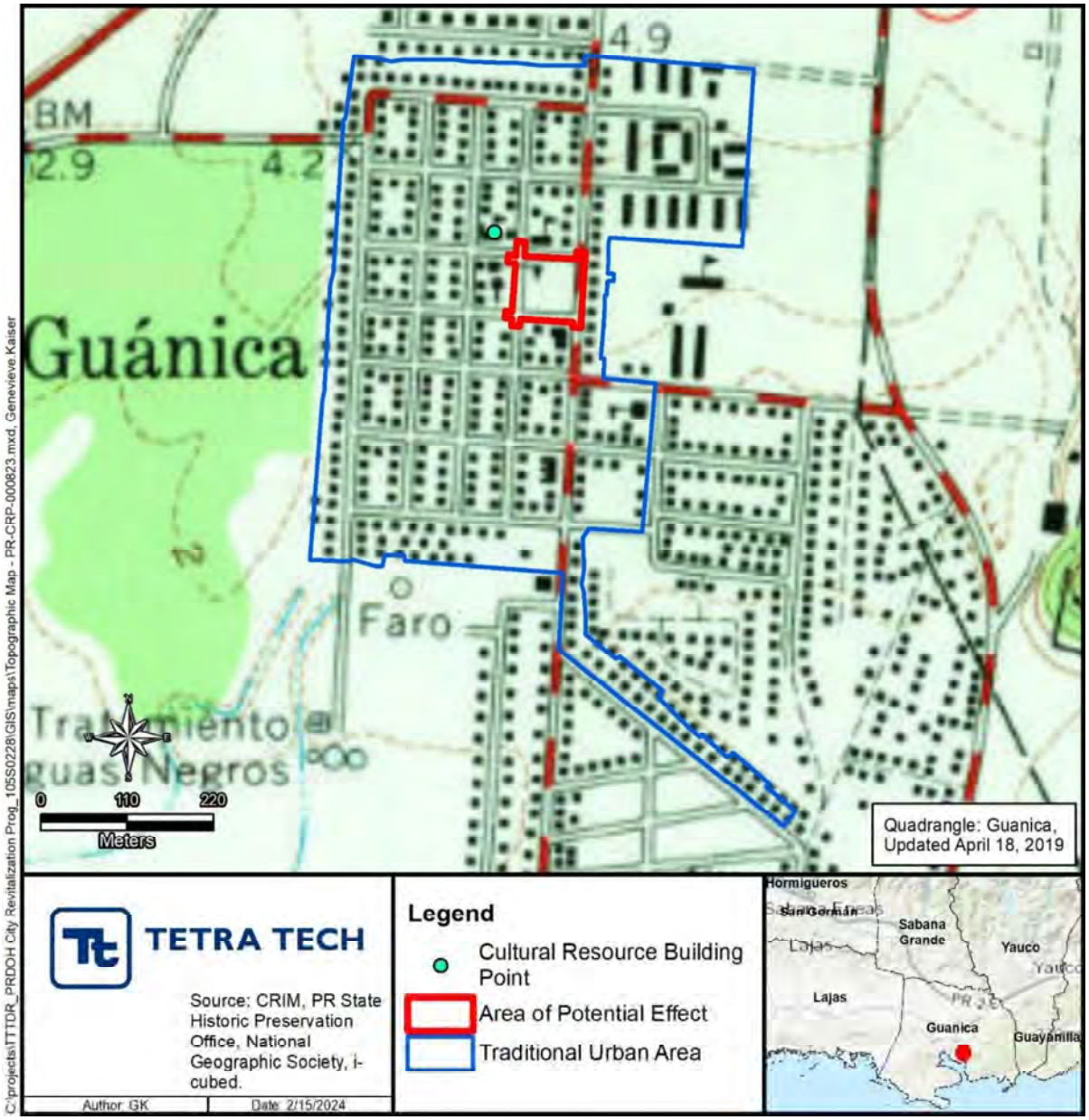
Project (Parcel) Location – Area of Potential Effect Map (Aerial)



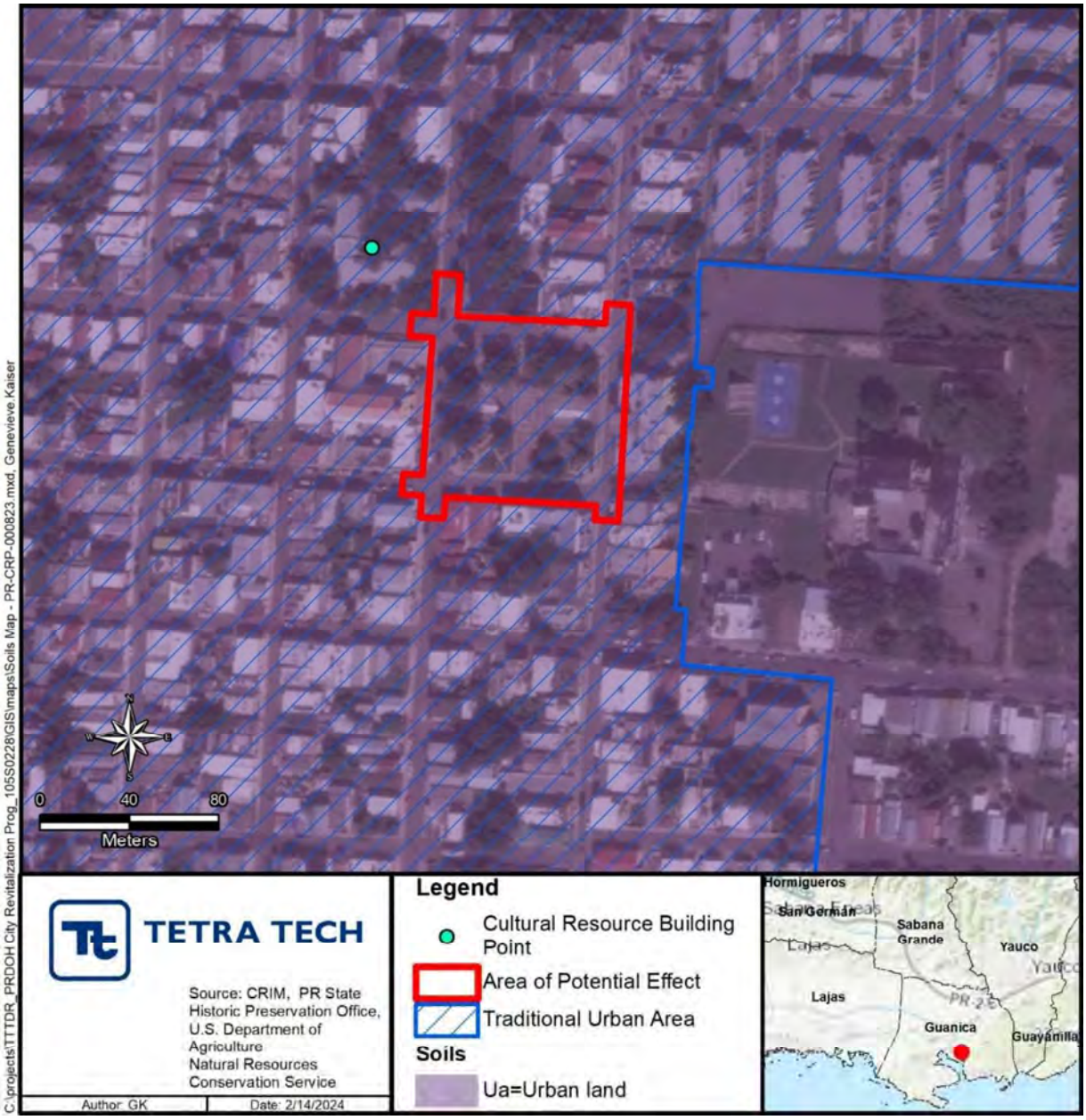
Project (Parcel) Location - Aerial Map



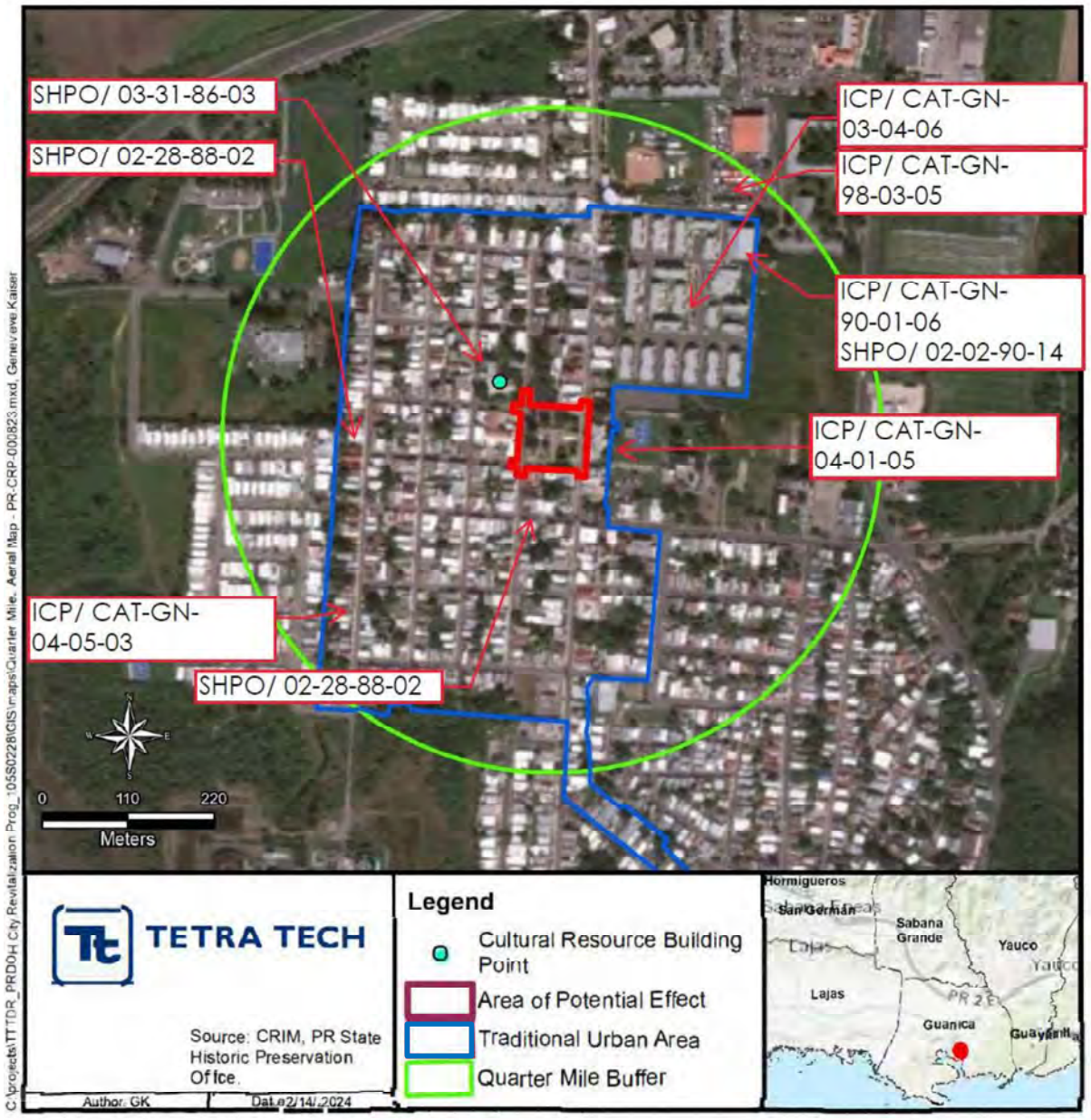
Project Parcel Location - USGS Topographic Map



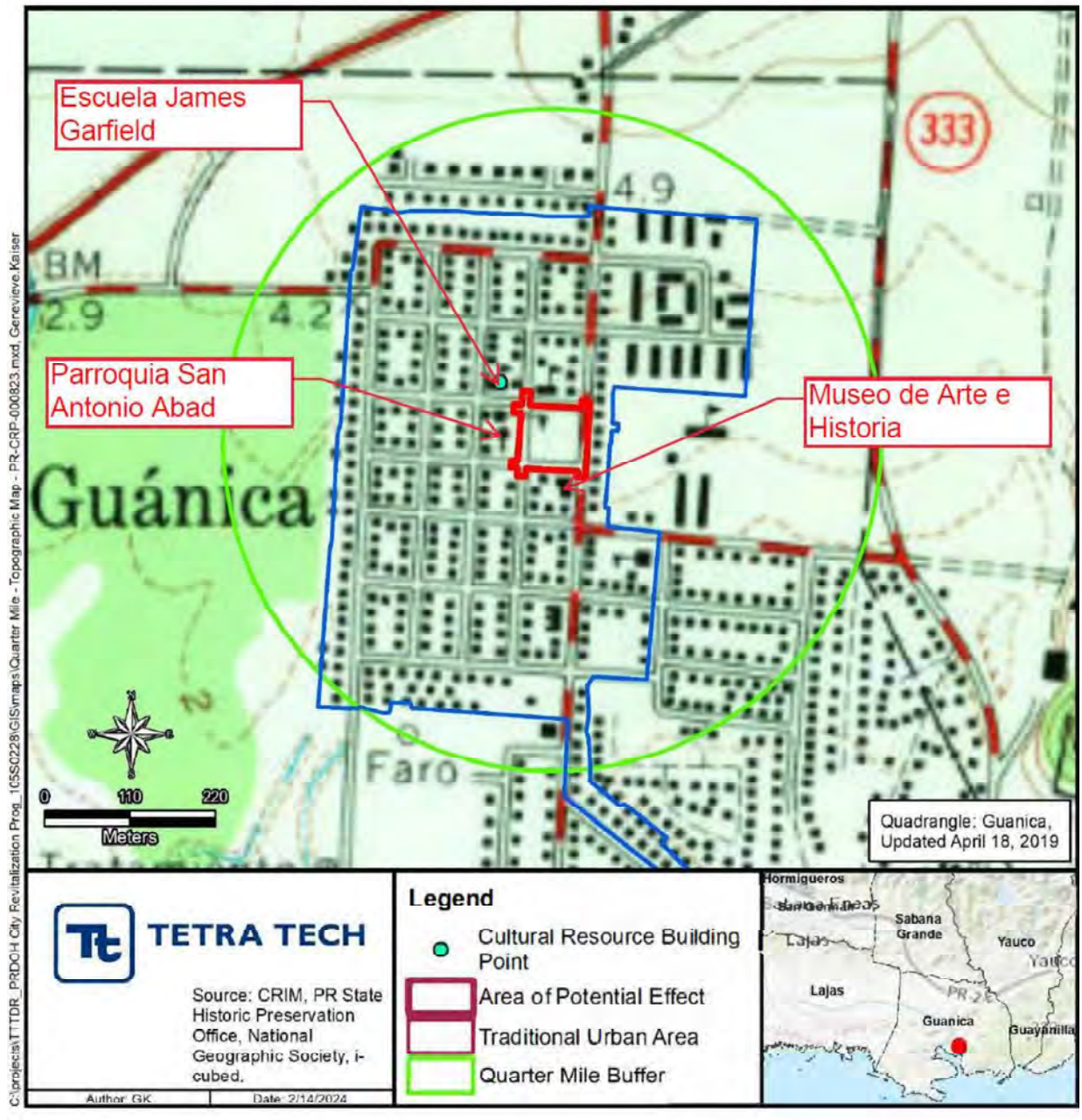
Project (Parcel) Location – Soils Map



Project (Parcel) Location with Previous Investigations - Aerial Map



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



Project (Parcel) Location with NRHP-listed and Eligible Resources - Aerial Map



Project (Parcel) Location with NRHP-listed and Eligible Resources

USGS Topographic Map



Project Location - APE (Historic Context 01) (Aerial photo 1930 photogrammetric survey)



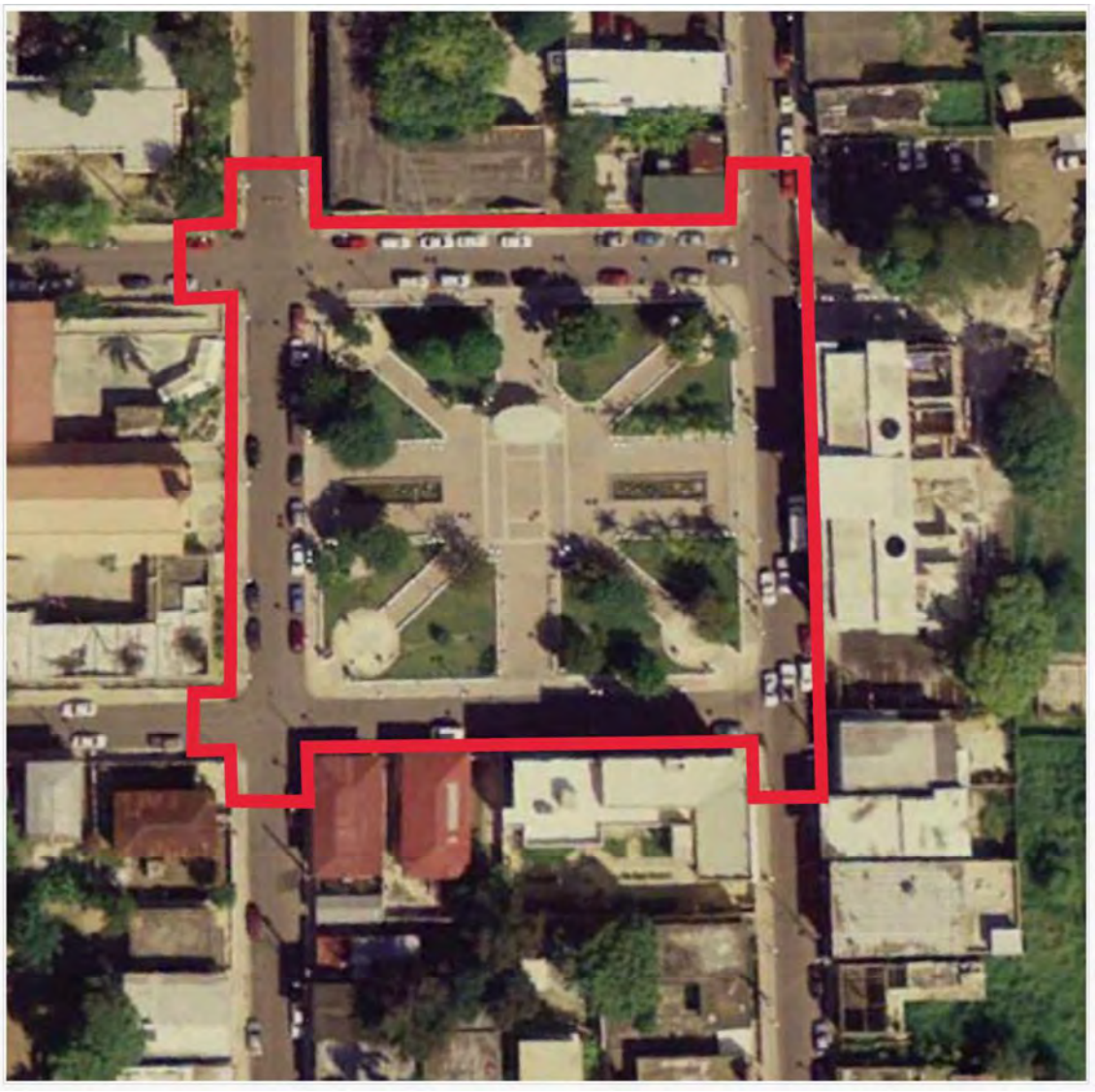
Project Location – APE (Historic Context 02) (Google Earth 1993)



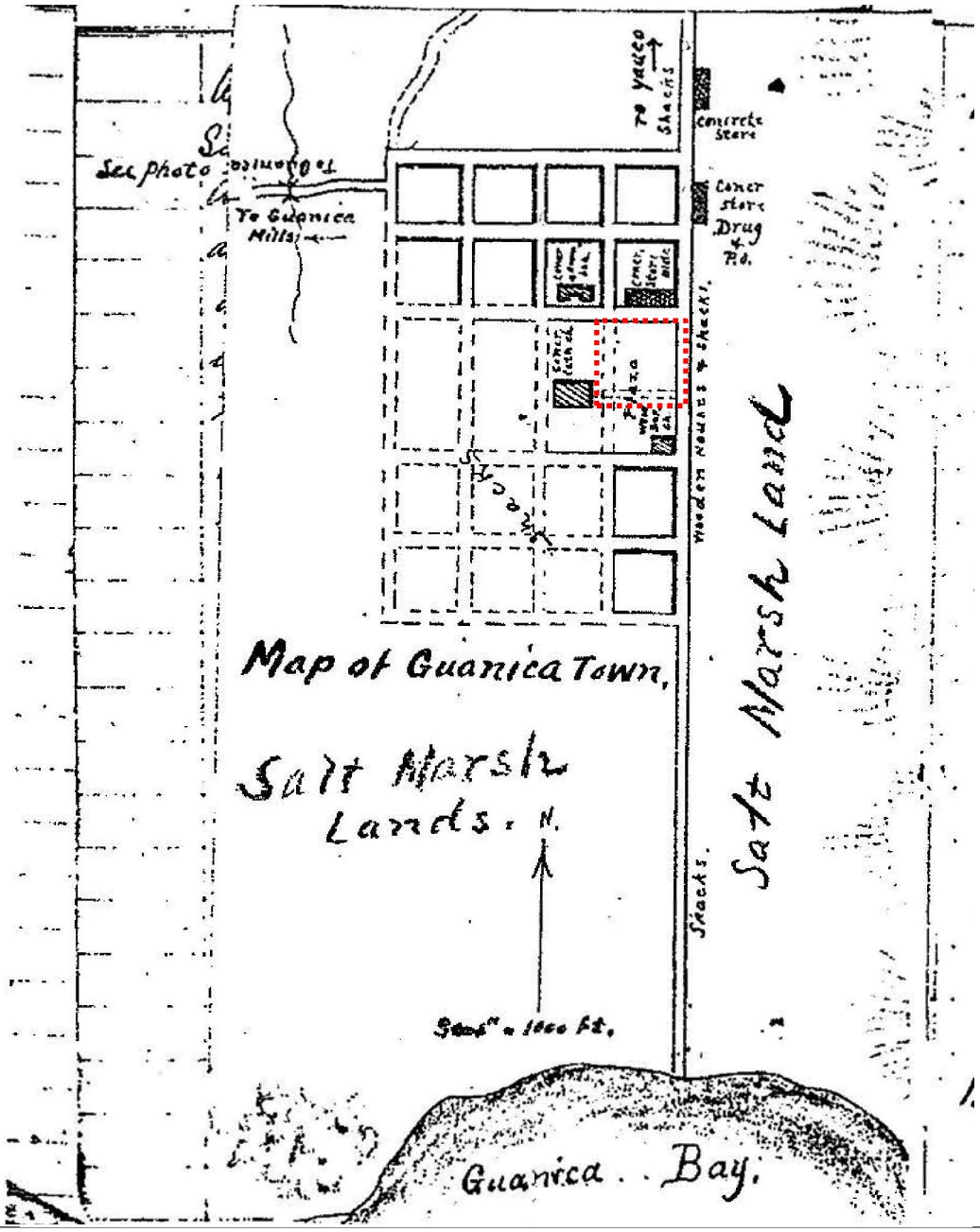
Project Location - APE (Historic Context 03) (Google Earth 2004)

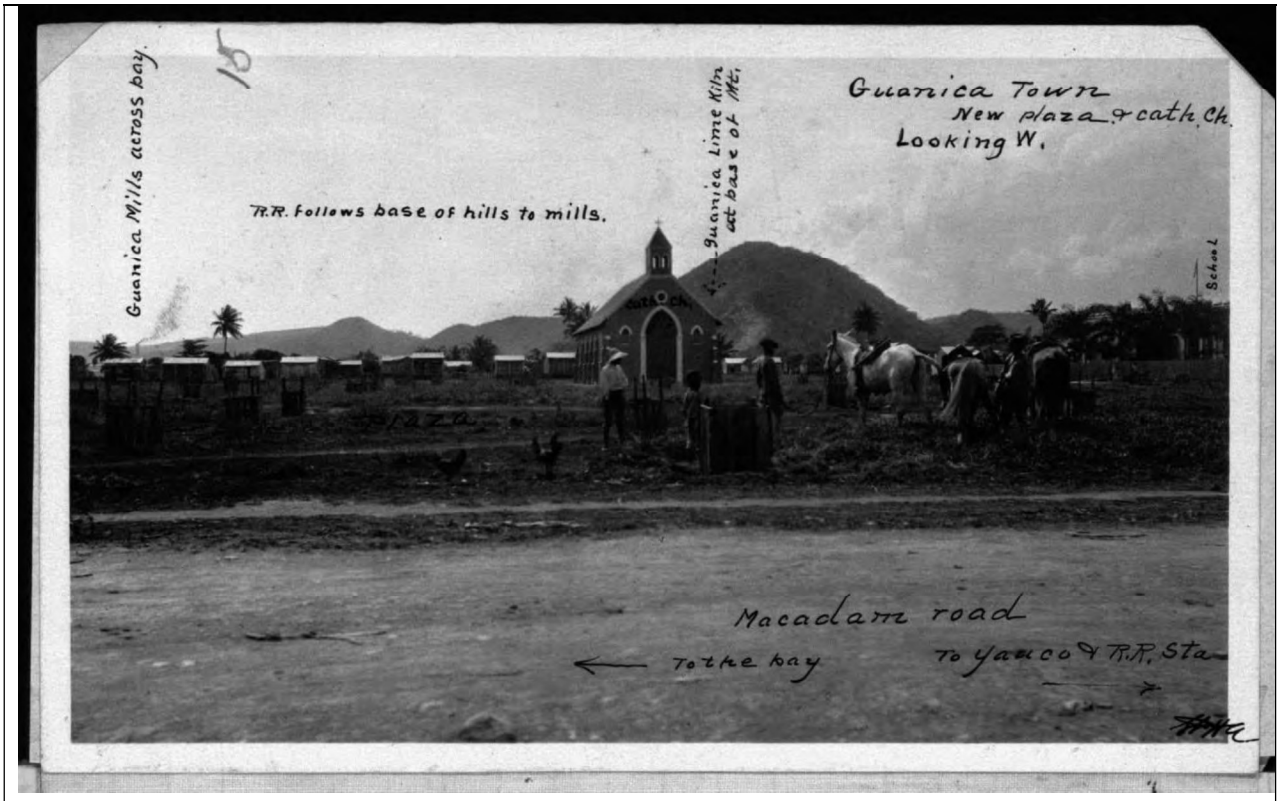


Project Location – APE (Historic Context 04) (Google Earth 2016)

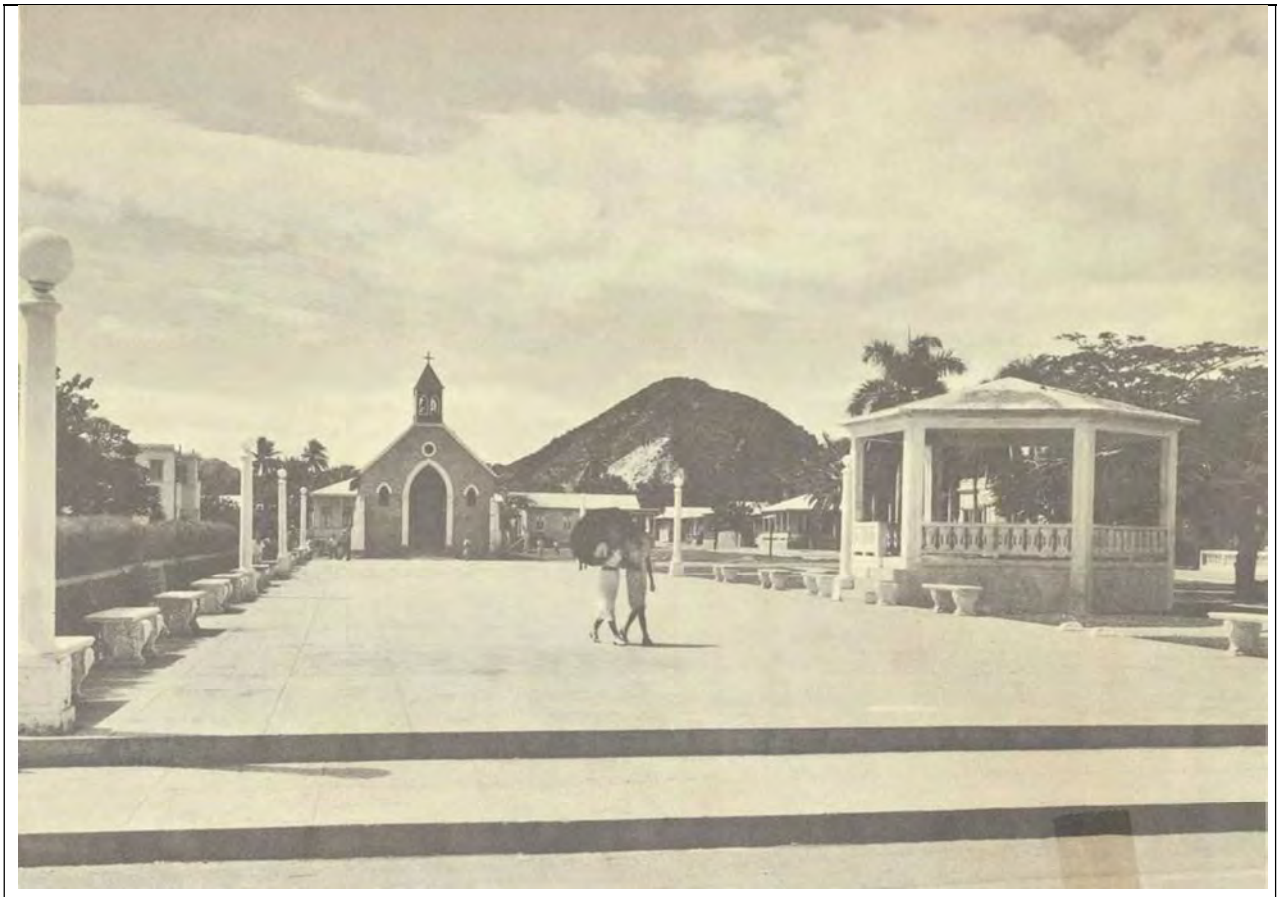


Project Location (Historic Context 05) - Guanica, PR existing condition sketch by John Armstrong (ca 1910)





Historic Context Image #06	**Description:** Black & white photo depicting Guanica town square, looking from main road (25 de Julio Street) toward west from the Diary of John Armstrong ca. 1910

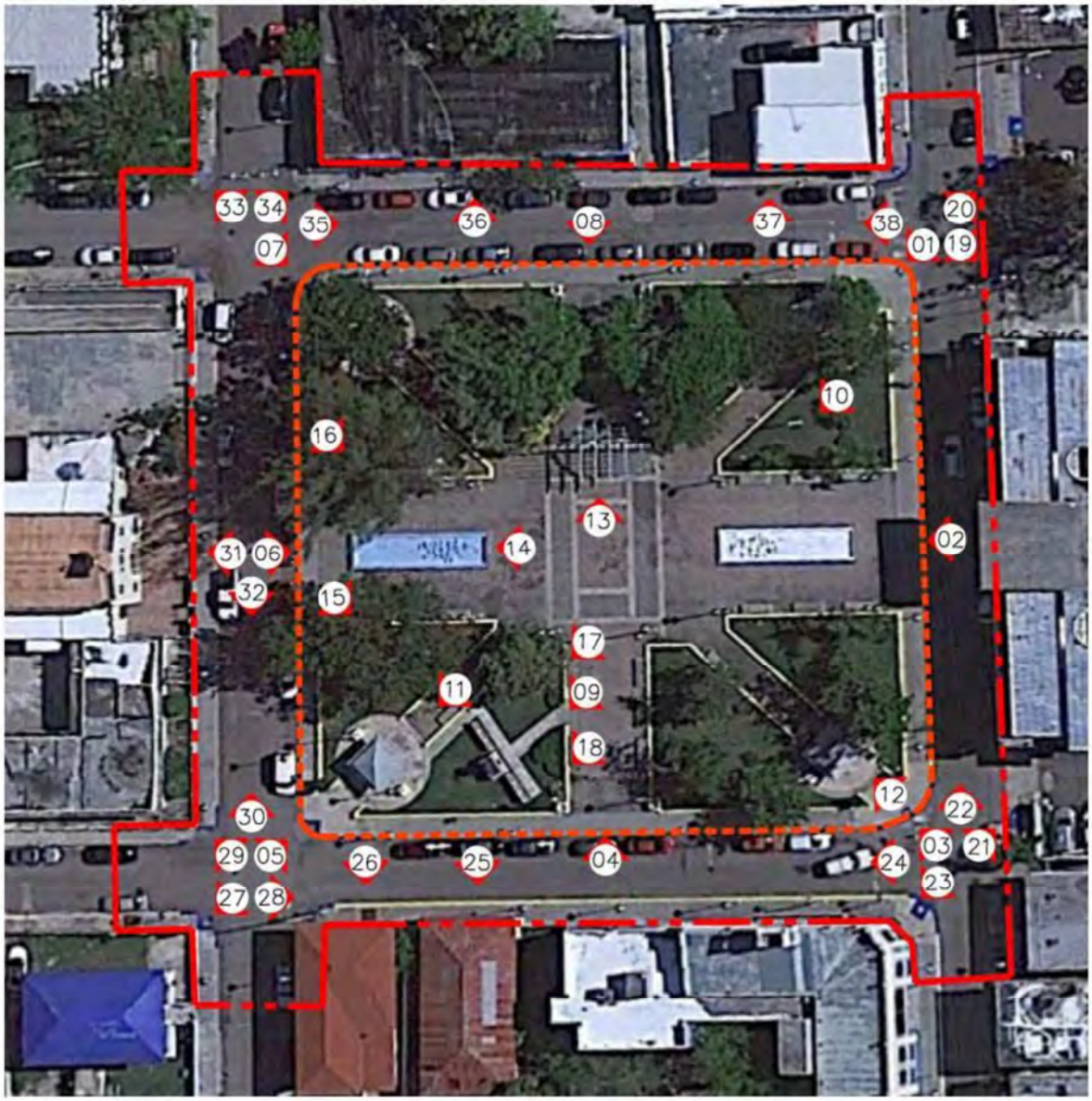


Historic Context Image#07	**Description:** Black and white photo of Guanica Town Square from 25 de Julio Street looking West, ca. 1940.



Historic Context Image# 08	**Description:** Black and white photo of Guánica Town Square from 25 de Julio Street looking West, ca. 1960. (Rebuilt San Antonio Abad church in background.)

Architectural Photo Survey Key Plan (Google Earth 2022)





Project Location **Photo #01**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northeast corner of 25 de Julio and Del Rosario streets, looking northwest. (Low walls to be removed for new landscaping.)



Project Location **Photo #02**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 25 de Julio Street, looking west. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping.)



Project Location Photo #03	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southeast corner of 25 de Julio and 65 de Infanteria streets, looking southwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #04	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Del Rosario Street, looking north. (Low walls & bandshell to be removed for new pavements & landscaping.)



Project Location Photo #05	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southwest corner of Del Rosario and Dr Santiago Veve streets, looking northwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #06	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Dr Santiago Veve street, looking east. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping. Modern city hall at background to be demolished after 2020 earthquake, not included in this undertaking.)



Project Location Photo #07	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northwest corner of Dr Santiago Veve and 54 Infanteria streets, looking southeast. (Low walls to be removed for new landscaping.)



Project Location Photo #08	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 65 Infanteria street, looking south. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #01	**Description:** Modern Veterans monument located at southwest sector of square, to be relocated, reincorporated into undertaking. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #02	**Description:** Contemporary Altrusa monument located at northeast planting area to be relocated, reincorporated into undertaking. (Low walls to be removed for new landscaping.)



Existing project Features Photo #03	**Description:** Existing southwest kiosk to remain, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #04	**Description:** Existing southeast kiosk to remain, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #05	**Description:** Existing concrete bandshell to be demolished for new pavements and landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #06	**Description:** Existing concrete water fountains to be demolished to be demolished for new pavements and landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #07	**Description:** Existing concrete water fountain pump shed to be demolished, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #08	**Description:** Existing electrical substation & mater bank to remain, to be concealed into new landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #09	**Description:** Existing precast concrete benches to be removed, stored, and relocated during undertaking, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #10	**Description:** Existing metal lampposts to be removed and provided to Owner for future retrofit, reuse. Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #01	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking south along 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #02	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking from northeast corner of Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #03	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking northeast toward modern City Hall. Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #04	**Description:** 25 de Julio Street, facing north. Modern city hall at right, facing west toward Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #05	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking southwest toward old City Hal. Juan Jimenez Mesa square at right (not shown) Guanica, PR.



Viewshed Photo #06	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking west. Old City Hall facing north toward Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #07	**Description:** Del Rosario street residential structure facing North Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #08	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing north toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #09	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing northeast toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #10	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing east. Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #11	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets institutional structure facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #12	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing north, Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #13	**Description:** San Antonio de Padua catholic parish church at Dr. Santiago Veve street facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Viewshed Photo #14	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets facing south, Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #15	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The James A Garfield Graded School facing southwest, toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #16	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The Maria Luisa McDougal School facing south, toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #17	**Description:** 65 Infanteria Street facing east toward 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.



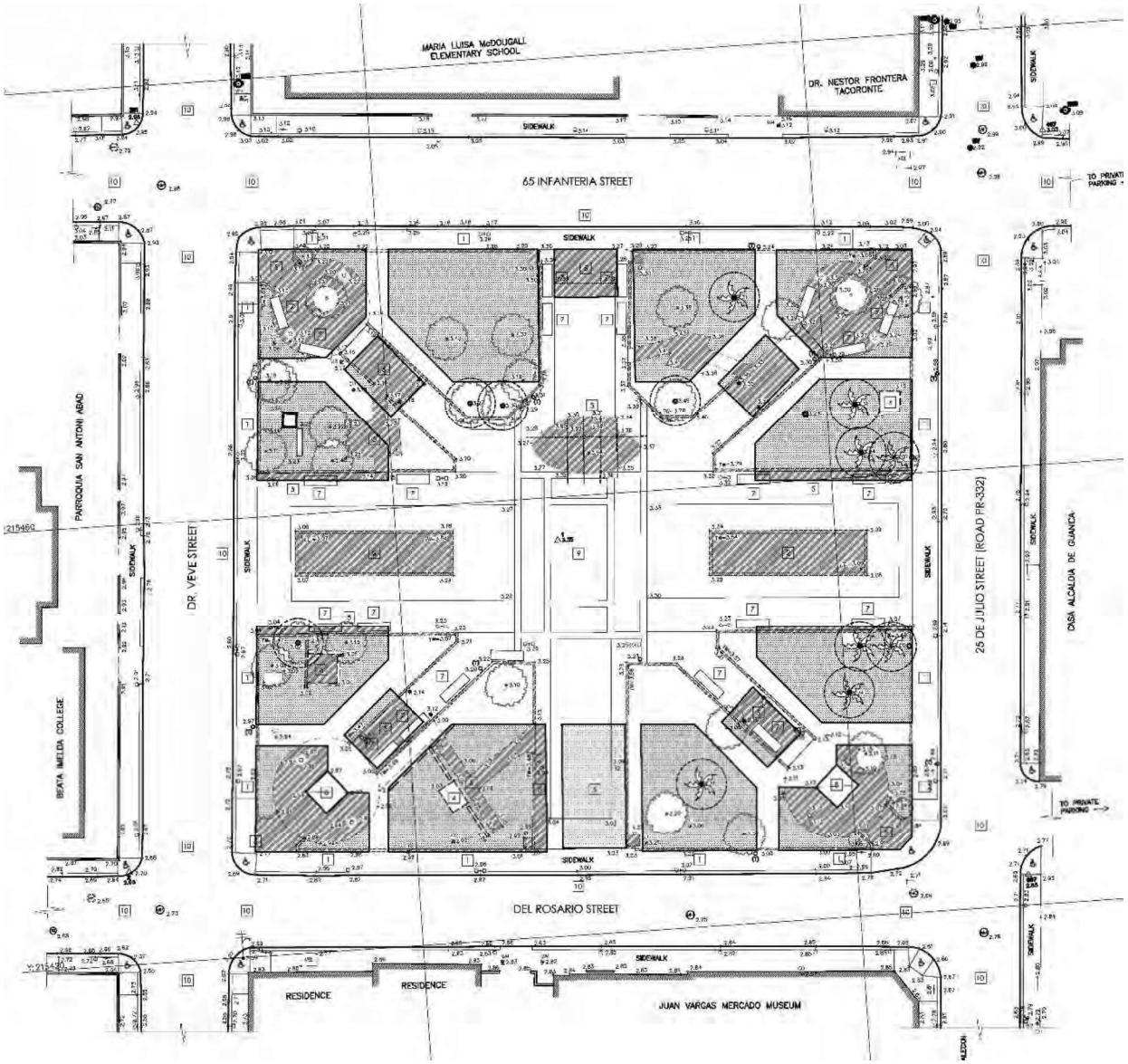
Viewshed Photo #18	**Description:** The Maria Luisa McDougal School at 65 Infanteria street facing south, toward Juan Jimenez Mesa square Guanica, PR.



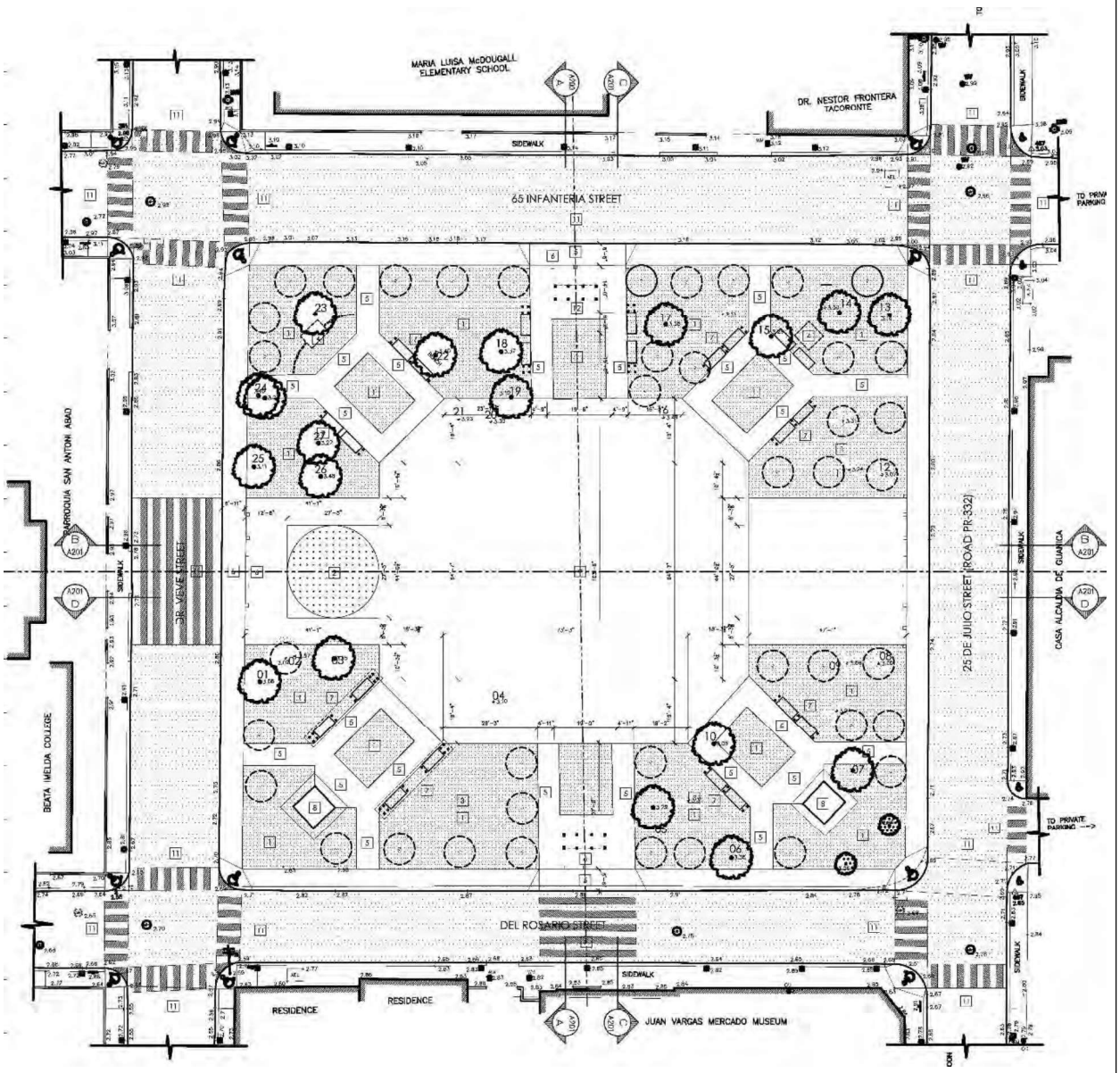
Viewshed Photo #19	**Description:** Corner of 65 Infanteria and 25 de Julio streets, medical office building at facing south toward Juan Jimenez Mesa square Guanica, PR.



Photo #20	**Description:** Corner of 65 Infanteria and 25 de Julio streets, facing west. Juan Jimenez Mesa square at left Guanica, PR.



Undertaking Exhibit # 01	**Description:** Existing condition/demolition layout. (Image provided by Applicant)



Undertaking Exhibit #: 02	**Description:** Proposed improvements layout (Image provided by Applicant)



Undertaking Exhibit #: 03	**Description:** CGI renderings (Image provided by Applicant)



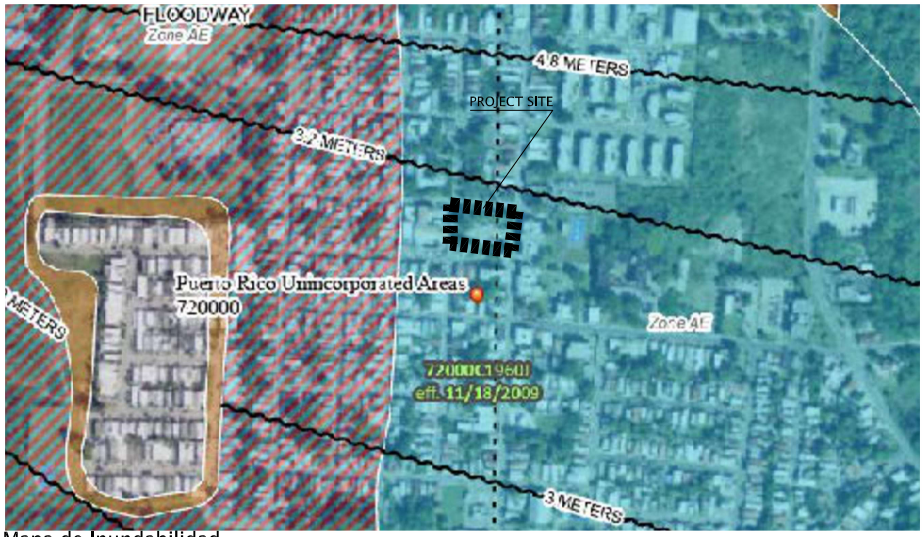
Undertaking Exhibit #: 04	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 05	**Description:** CGI renderings (Image provided by Applicant)

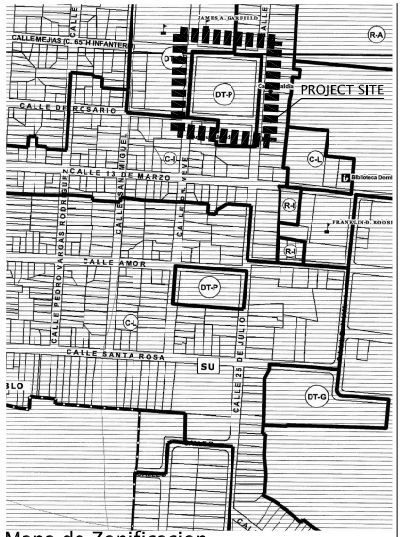


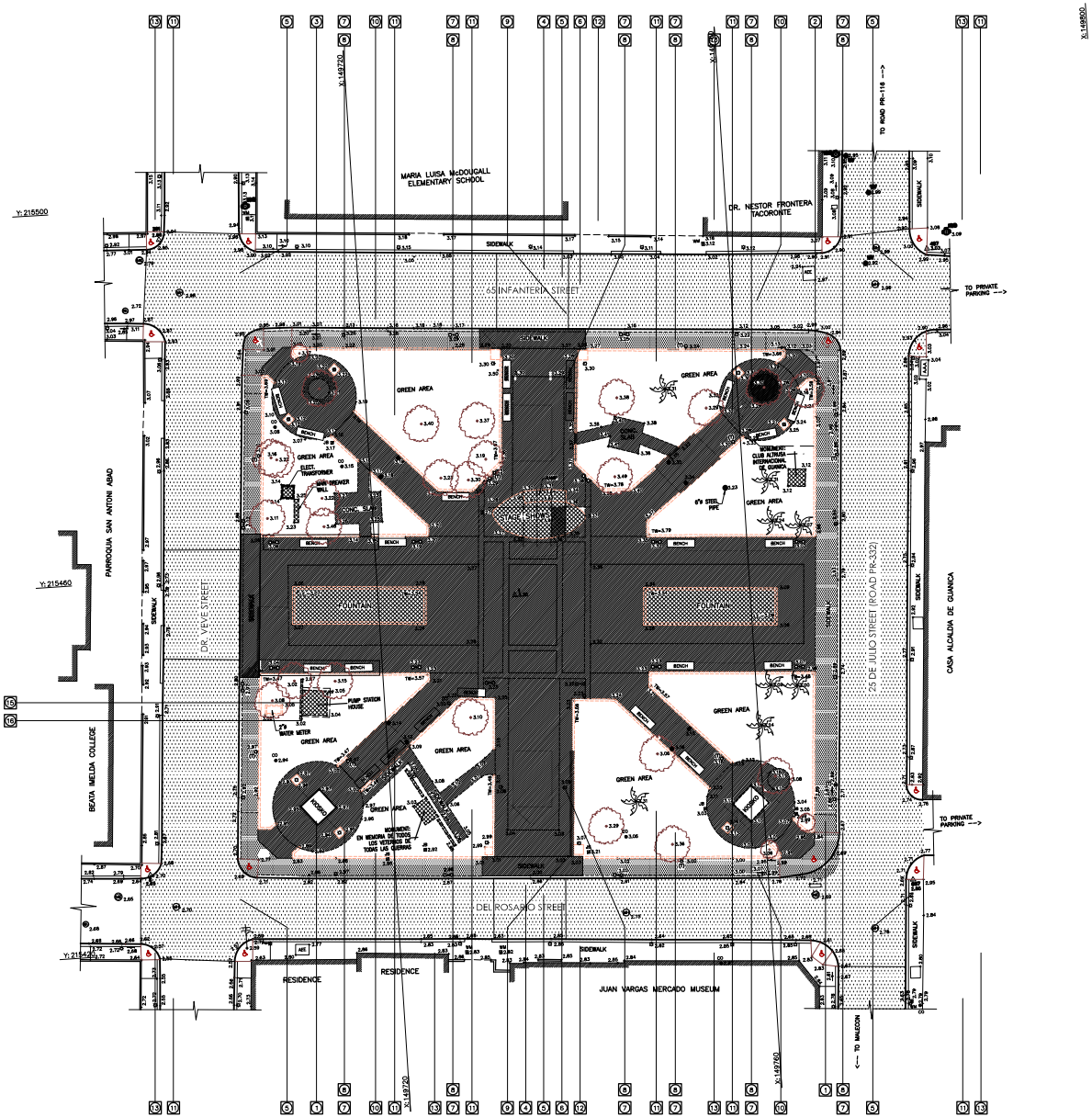
Undertaking Exhibit #: 06	**Description:** CGI renderings (Image provided by Applicant)



Mapa de Inundabilidad

72000C19601 NOV 18 2009


PROJECT SITE
CALLE 13 DE MARZO
CALLE AMOR
CALLE SANTA ROSA
CALLE DR. VEVE
CALLE DR. BETHANCES
CALLE DR. CAMPOS TORRES
CALLE DR. BOTHWELL
CALLE DR. BOTHWELL
CALLE DR. BOTHWELL



Planta demolicion propuesta

Scale 1/4" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

- A. PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.
- B. TEMPORARY CONSTRUCTION BARRICADE. AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.
- C. REINFORCED CONCRETE TRANSITION BORDER. AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.
- D. NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.
- E. NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.
- F. EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.
- G. REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.
- H. REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE, PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.
- I. STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.
- J. NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.
- K. NEW GRANITE BOLLARDS. REFER TO NOTES & DETAILS.
- L. NEW CONTAINER AREA. REFER TO NOTES & DETAILS.
- M. NEW INTERPRETATIVE PEDESTAL (BY OTHERS)
- N. REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED. REFER TO NOTES & DETAILS.

NEW PAVEMENT LEGEND

- NEW ROADWAY ASPHALT PAVEMENT RESURFACING.
- NEW ROADWAY CEMENTITIOUS FINISH.
- NEW PEDESTRIAN CROSSING STRIPS.
- NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.
- NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:

REMODELACION PLAZA MANUEL JIMENEZ MESA

Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	Fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
02	01.16.23	Desarrollo Diseno Preliminar	ER
07.14.23		Desarrollo Docs Construccion	ER

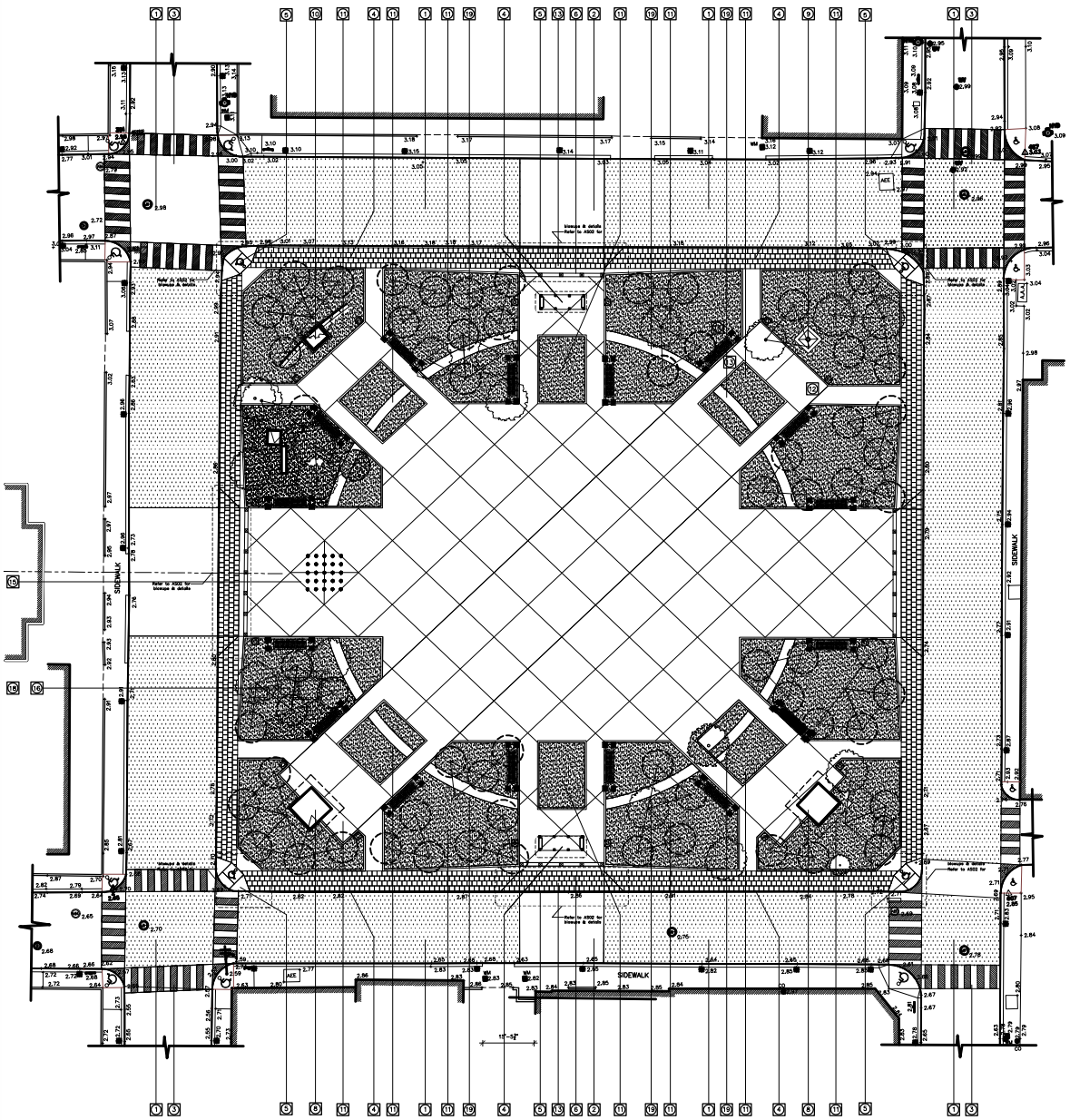
Desarrollo de Diseno Esquematico

Plantas de Sitio demolicion

drawn by: ER
checked by: ER
trg file: 22260 0501
plot scale: 1=1
trg num: 22260

drawing sheet number:

DS01



Architectural Site Layout

Scale 1/16" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. NEW ASPHALT ROADWAY PAVEMENT AREAS.
2. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
3. NEW PEDESTRIAN CROSSING STRIPS.
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
8. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
9. "ALTRUSA" MONUMENT TO BE RELOCATED.
10. GUANICA VETERANS MONUMENT TO BE RELOCATED, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
11. NEW LANDSCAPING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN, AND SHALL COORDINATE TRESS TO BE REMOVED & RELOCATED OR DISCARDED. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (REFER TO LANDSCAPING PLAN)
12. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS. (REFER TO LANDSCAPING PLAN)
13. NEW METAL PERGOLATED GARDEN GAZEBO. (SEE DETAILS)
14. NEW WASTE RECEPTACLES MODEL "PAPER-INA" BY ESCOFET OR APPROVED EQ. (16 UNITS)
15. NEW CONCRETE BENCHES, MODEL "MAYO" BY ESCOFET OR APPROVED EQ. (16 UNITS) COORDINATE WITH EXISTING UNITS.
16. NEW METAL PERGOLAS MODEL VIA-LACTEA BY ESCOFET OR APPROVED EQ. (16 UNITS, REFER TO DETAILS.)
17. NEW WALK THRU FOUNTAIN FEATURE FIAC SERIES 2000 BY FOUNTAIN PEOPLE INC. (25 NOZZLES) OR APPROVED EQ.
18. NEW WALK THRU FOUNTAIN SELF DBBV-SERIES DIRECT BURIAL VAULT SYSTEM BY FOUNTAIN PEOPLE INC. OR APPROVED EQ.
19. NEW WATER CISTERN.
20. NEW LIGHT FIXTURES. (REFER TO ELECTRICAL DRAWINGS)
21. NEW PEDESTRIAN TRAIL.(REFER TO LANDSCAPING PLAN)
22. SPARE.

NEW PAVEMENT LEGEND

- NEW ROADWAY ASPHALT PAVEMENT RESURFACING.
- NEW ROADWAY CEMENTITIOUS FINISH.
- NEW PEDESTRIAN CROSSING STRIPS.
- NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.
- NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.9688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACIÓN, CONCEPTOS DE DISEÑO, TECNOLOGÍAS EN EL MISMO CONTENIDOS SON PROPIEDAD INTELECTUAL DE TRG ARCHITECTS Y NO PODRÁ SER UTILIZADO, REPRODUCIDO, REVELADO O DISTRIBUIDO PARCIAL O TOTALMENTE SIN EL CONSENTIMIENTO PREVIO Y POR ESCRITO DE TRG ARCHITECTS.

2. EL USO, TITULARIDAD Y DERECHOS DE LA PROPIEDAD INTELECTUAL CONTENIDOS EN EL PRESENTE DOCUMENTO SE REGIRÁN POR LAS LEYES DE LA JURISDICCIÓN DE PUERTO RICO. EL USO NO AUTORIZADO DE ESTE DOCUMENTO PUEDE CONSTITUIR UNA VIOLACIÓN A LOS DERECHOS DE AUTOR, MARCAS COMERCIALES, LEYES DE COMPETENCIA DESLEAL Y/O LEYES DE PUBLICIDAD QUE PUEDEN ESTABLECER RESPONSABILIDAD CIVIL Y/O CRIMINAL. TODOS LOS DERECHOS NO CONCEDIDOS EXPRESAMENTE EN ESTE DOCUMENTO SE RESERVAN A TRG ARCHITECTS. AL ACEPTAR ESTE DOCUMENTO, USTED ACEPTA LOS TÉRMINOS Y CONDICIONES ANTERIORES. CUALQUIER USO NO AUTORIZADO DE ESTE DOCUMENTO SERÁ PERSEGUIDO EN TODA LA EXTENSIÓN DE LA LEY. SEGÚN APLICABLE. SI NO ESTÁ DISPUESTO A ESTOS TÉRMINOS Y CONDICIONES, POR FAVOR DEVUELVA ESTE DOCUMENTO INMEDIATAMENTE SIN HACER COPIAS.

Norte

nombre y direccion del proyecto:

REMODELACION PLAZA MANUEL JIMENEZ MESA

Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Cobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

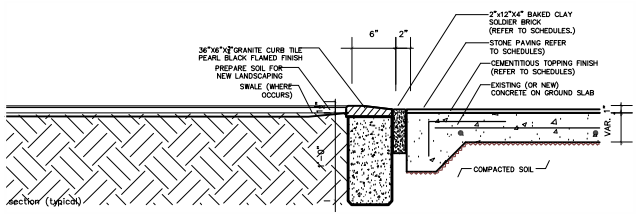
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
1	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

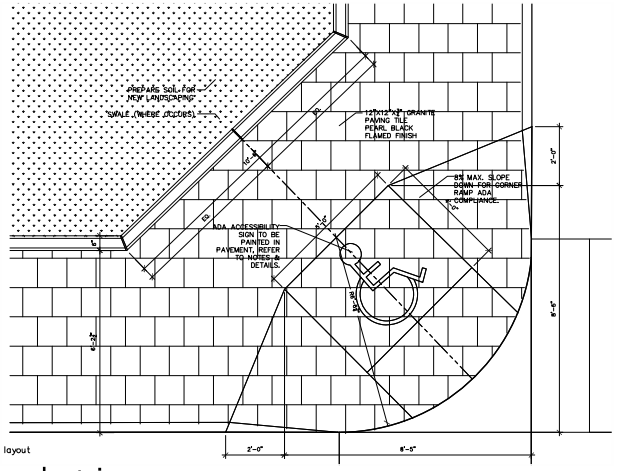
Plantas Arquitectonicas Propuestas

drawn by ER drawing sheet number:
checked by ER
file 22260-AS01
plot scale 1=1
trg num 22260

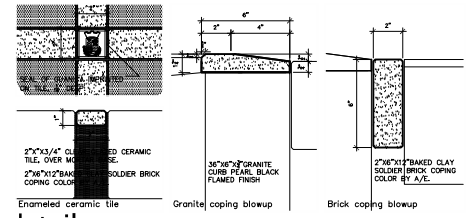
AS01



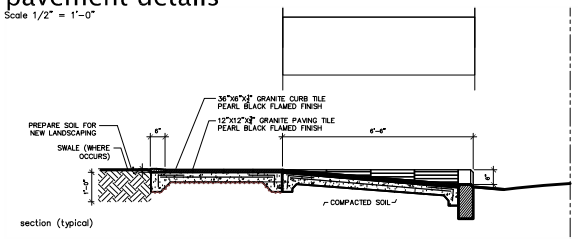
pavement detail
Scale 1 1/2" = 1'-0"

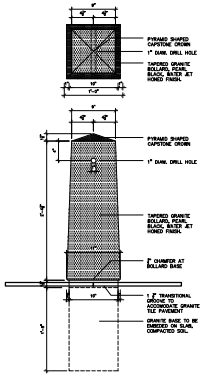


pedestrian corner ramp
Scale 1/2" = 1'-0"

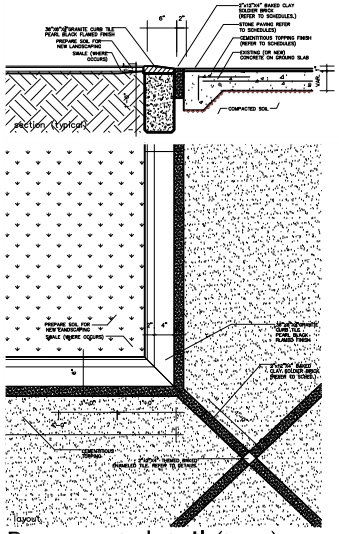


pavement details
Scale 1/2" = 1'-0"

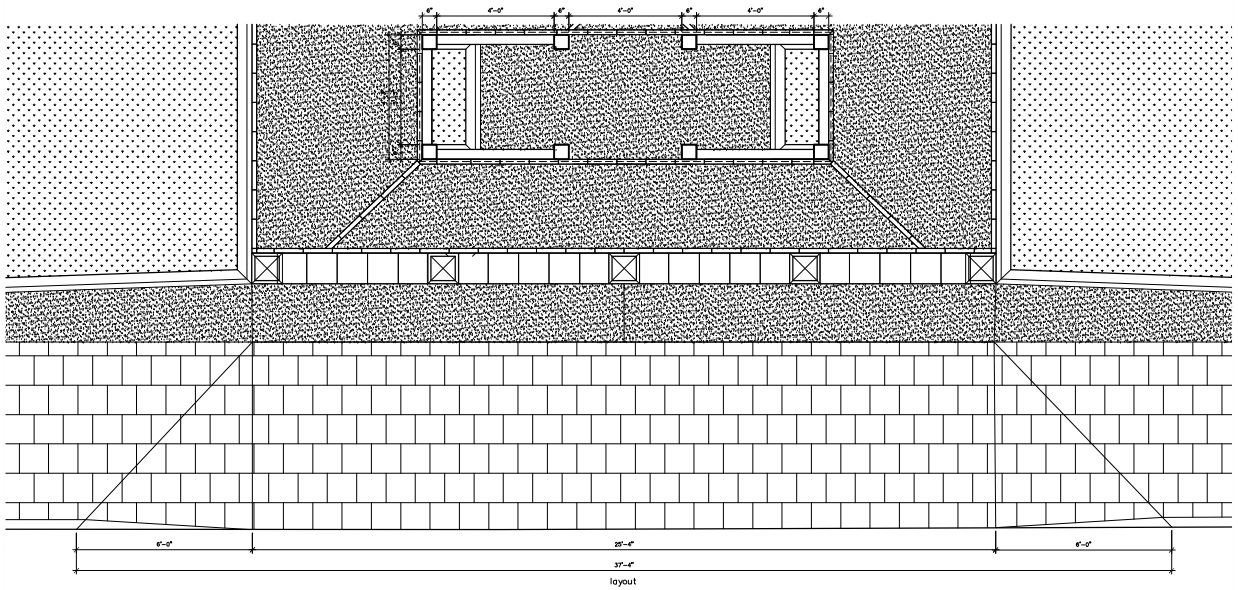


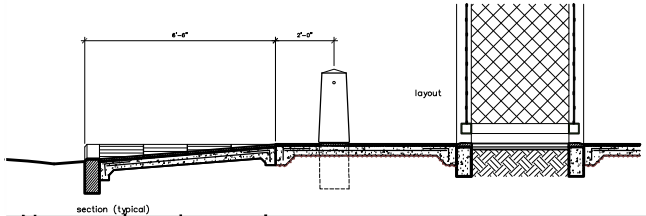


Stone bollard
Scale 1" = 1'-0"

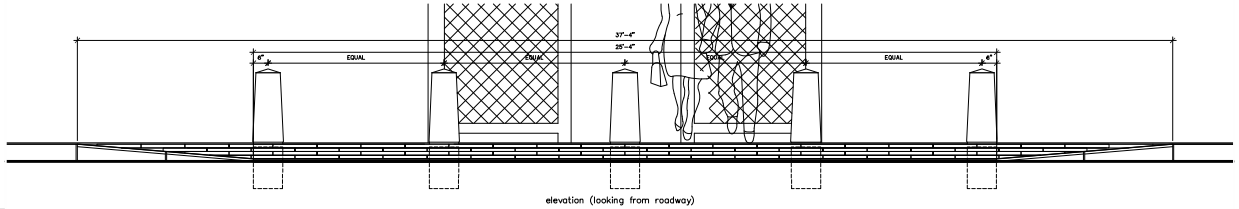


Pavement detail (typ.)
Scale 1" = 1'-0"





New pedestrian main ramps
Scale 1/2" = 1'-0"



trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-4795
1.787.469.0668
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

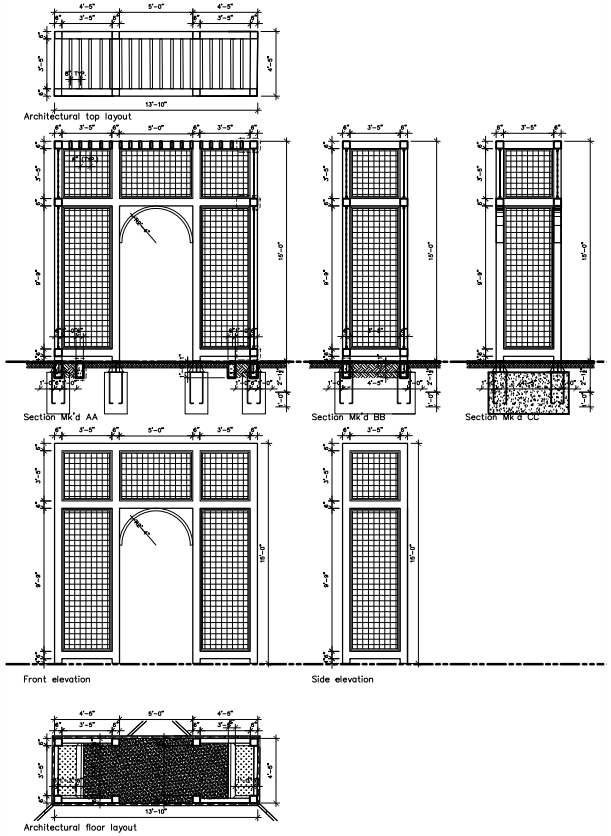
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
07.14.23		Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

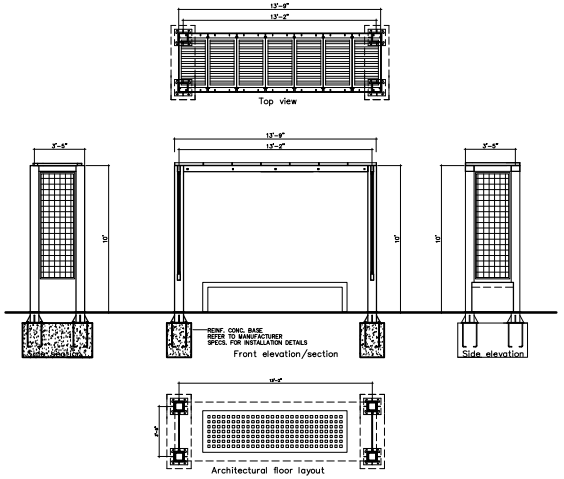
drawn by EH drawing sheet number:
checked by EH
file 22260 A002
plot scale 1=1
trg num 22260

AS02



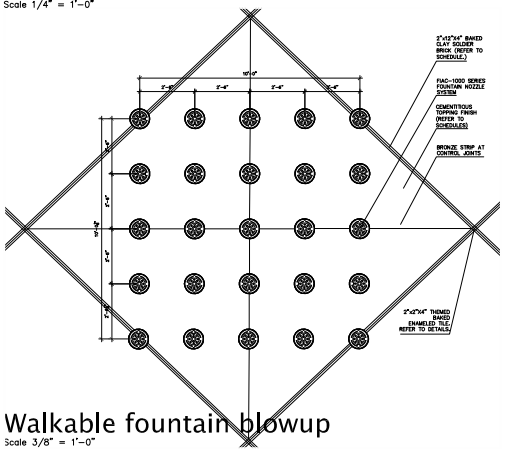
New garden pavilion

Scale 1/4" = 1'-0"



New pergola at relocated bench

Scale 1/4" = 1'-0"



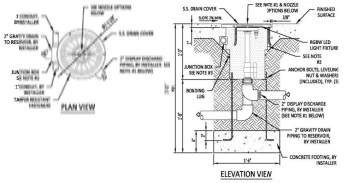
Walkable fountain blowup

Scale 3/8" = 1'-0"

FIAC-1000 Fountain-In-A-Can Fountain Nozzle System

Description information:
FIAC-1000 Series UL Listed Fountain-in-a-Can is a "pour in place" assembly containing a flush mount spray effect and 360 degree illuminating LED light fixture. The assembly can be utilized for plaza style water features or may be used for interactive splash pads.

Product specification:
FIAC-1000 Series UL Listed Fountain-in-a-Can, a "pour in place" flush mount spray effect with 360 degree light
fixture. The assembly includes a stainless steel housing with 1/4" thick stainless steel drain cover and contains
1. interchangeable fountain nozzle, 360-degree 24V, 36 Watt, LED ring light with colored RGBW diodes, manual adjustment valve, junction box, bonding lug, 2" inlet connection, 2" drain connection, and (2) 1" conduit connection for light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.



Fountain nozzle system

Scale 3/8" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

A. PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.

B. TEMPORARY CONSTRUCTION BARRICADE, AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.

C. REINFORCED CONCRETE TRANSITION BORDER, AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.

D. NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.

E. NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.

F. EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.

G. REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.

H. REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE. PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.

I. STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.

J. NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.

K. NEW GRANITE BOLLARDS. REFER TO NOTES & DETAILS.

L. NEW CONTAINER AREA. REFER TO NOTES & DETAILS.

M. NEW INTERPRETATIVE PEDESTAL (BY OTHERS)

N. REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED. REFER TO NOTES & DETAILS.

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-0795
1.787.469.2668
trg@trgarchitects.com

NOTES (IMPORTANTES):

1. - ESTE DISEÑO ARQUITECTÓNICO ES PROPIEDAD INTELECTUAL DE TRG ARCHITECTS PSC, QUIEN ES EL AUTOR DE LOS PLANOS, ESPECIFICACIONES Y DISEÑO ARQUITECTÓNICO. ESTE DISEÑO NO PUEDE SER UTILIZADO EN NINGUNA OBRA SIN EL PERMISO Y AUTORIZACIÓN ESCRITA DE TRG ARCHITECTS PSC.

2. - LOS DIBUJOS, ESPECIFICACIONES Y DISEÑO ARQUITECTÓNICO DE ESTE PROYECTO SON EL PROPIEDAD DEL ARQUITECTO Y NO PUEDEN SER UTILIZADOS EN NINGUNA OTRA OBRA SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO. EL USO NO AUTORIZADO DE ESTOS DIBUJOS, ESPECIFICACIONES Y DISEÑO ARQUITECTÓNICO CONSTITUYE UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR Y LA PROPIEDAD INTELECTUAL DEL ARQUITECTO. EL ARQUITECTO SE RESERVA TODOS LOS DERECHOS LEGALES Y EQUITATIVOS CONTRA EL USO NO AUTORIZADO DE ESTOS DIBUJOS, ESPECIFICACIONES Y DISEÑO ARQUITECTÓNICO. EL ARQUITECTO NO ASUME RESPONSABILIDAD POR CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS. CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS Y DISEÑO ARQUITECTÓNICO CONSTITUYE UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR Y LA PROPIEDAD INTELECTUAL DEL ARQUITECTO. EL USO NO AUTORIZADO INCLUYE, PERO NO SE LIMITA A, LA REPRODUCCIÓN, PUBLICACIÓN, MODIFICACIÓN O DISTRIBUCIÓN DE ESTOS PLANOS Y DISEÑO ARQUITECTÓNICO SIN EL CONSENTIMIENTO ESCRITO DEL ARQUITECTO. EL ARQUITECTO SE RESERVA TODOS LOS DERECHOS LEGALES Y EQUITATIVOS CONTRA EL USO NO AUTORIZADO DE ESTOS DIBUJOS, ESPECIFICACIONES Y DISEÑO ARQUITECTÓNICO. EL ARQUITECTO NO ASUME RESPONSABILIDAD POR CUALQUIER USO NO AUTORIZADO DE ESTOS PLANOS.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

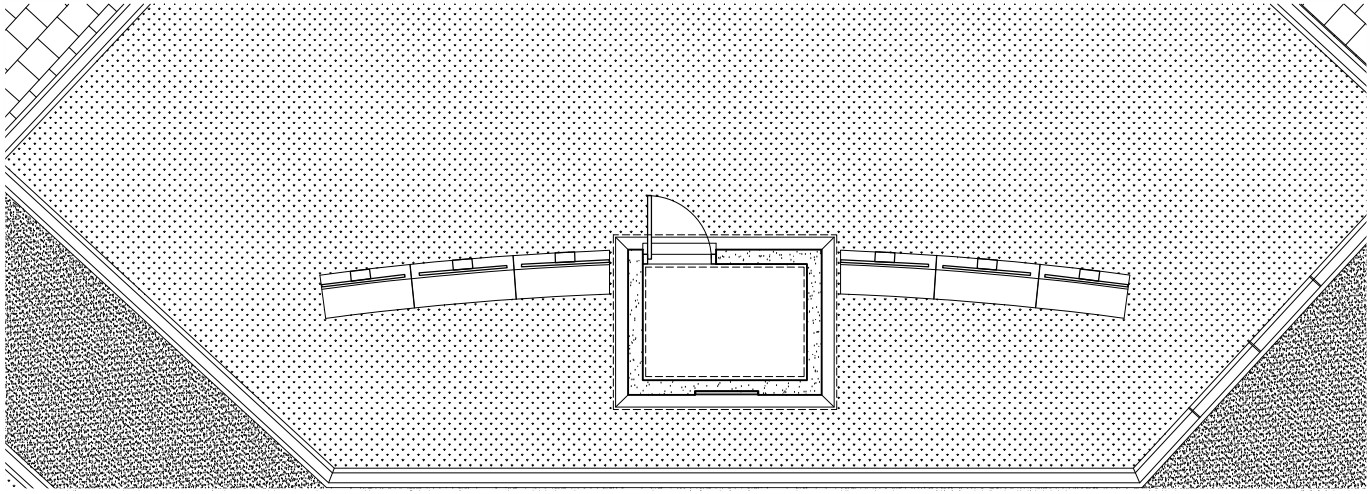
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

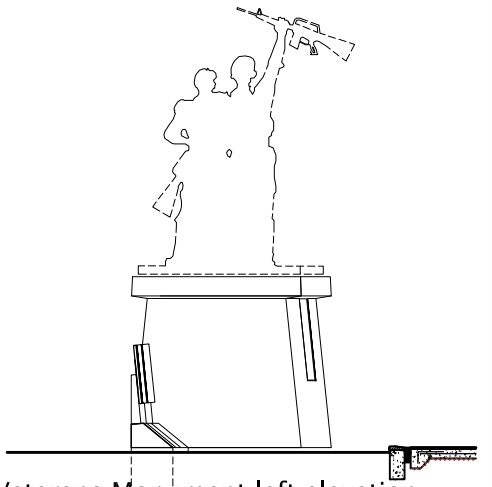
drawn by EH drawing sheet number:
checked by EH
file 22260 A03
plot scale 1=1
trg num 22260

AS03



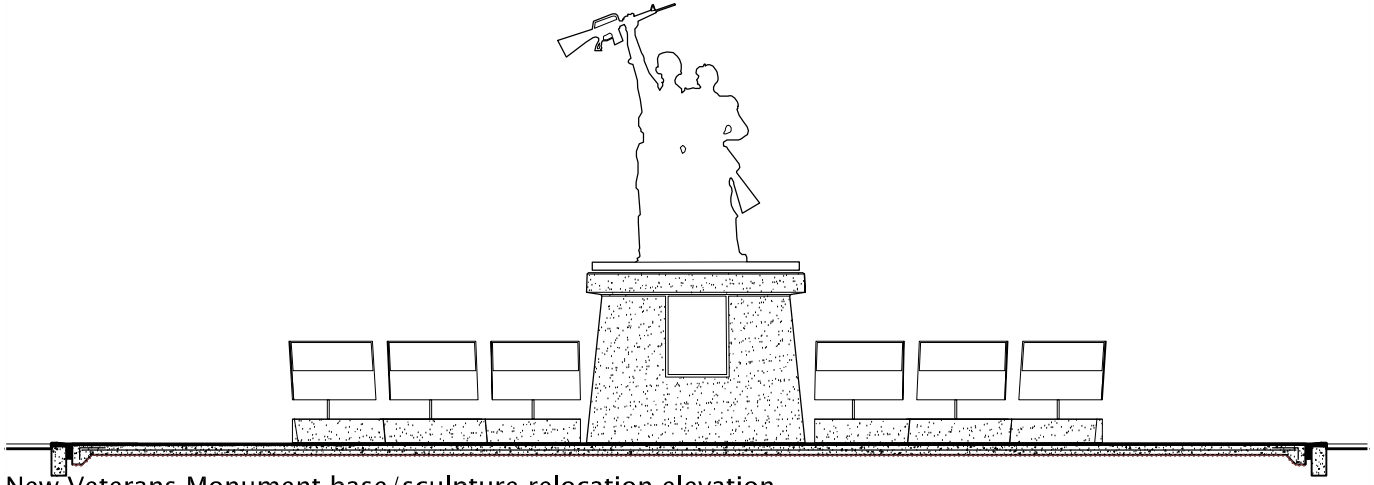
New Veterans Monument base/sculpture relocation layout

Scale 1/4" = 1'-0"



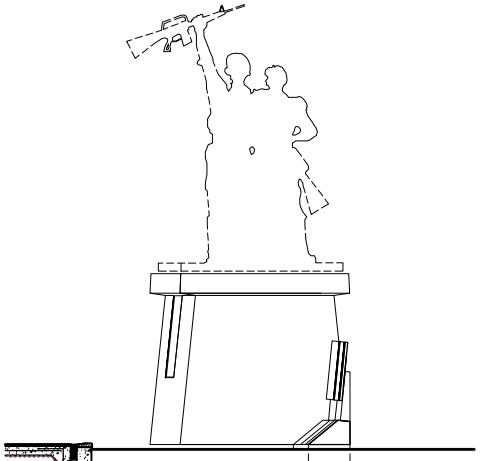
Veterans Monument left elevation

Scale 1/4" = 1'-0"



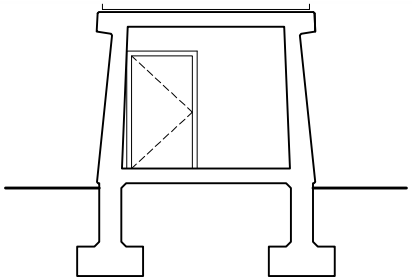
New Veterans Monument base/sculpture relocation elevation

Scale 1/4" = 1'-0"



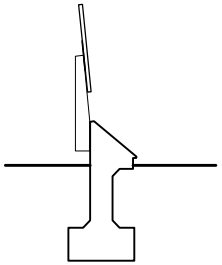
Veterans Monument right elevation

Scale 1/4" = 1'-0"



Veterans Monument base detail

Scale 3/4" = 1'-0"



Veterans Monument plaque base detail

Scale 3/4" = 1'-0"

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-0795
1.787.469.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

drawn by: TR drawing sheet number:
checked by: TR
file: 22060-AS04
plot scale: 1=1
trg num: 22060

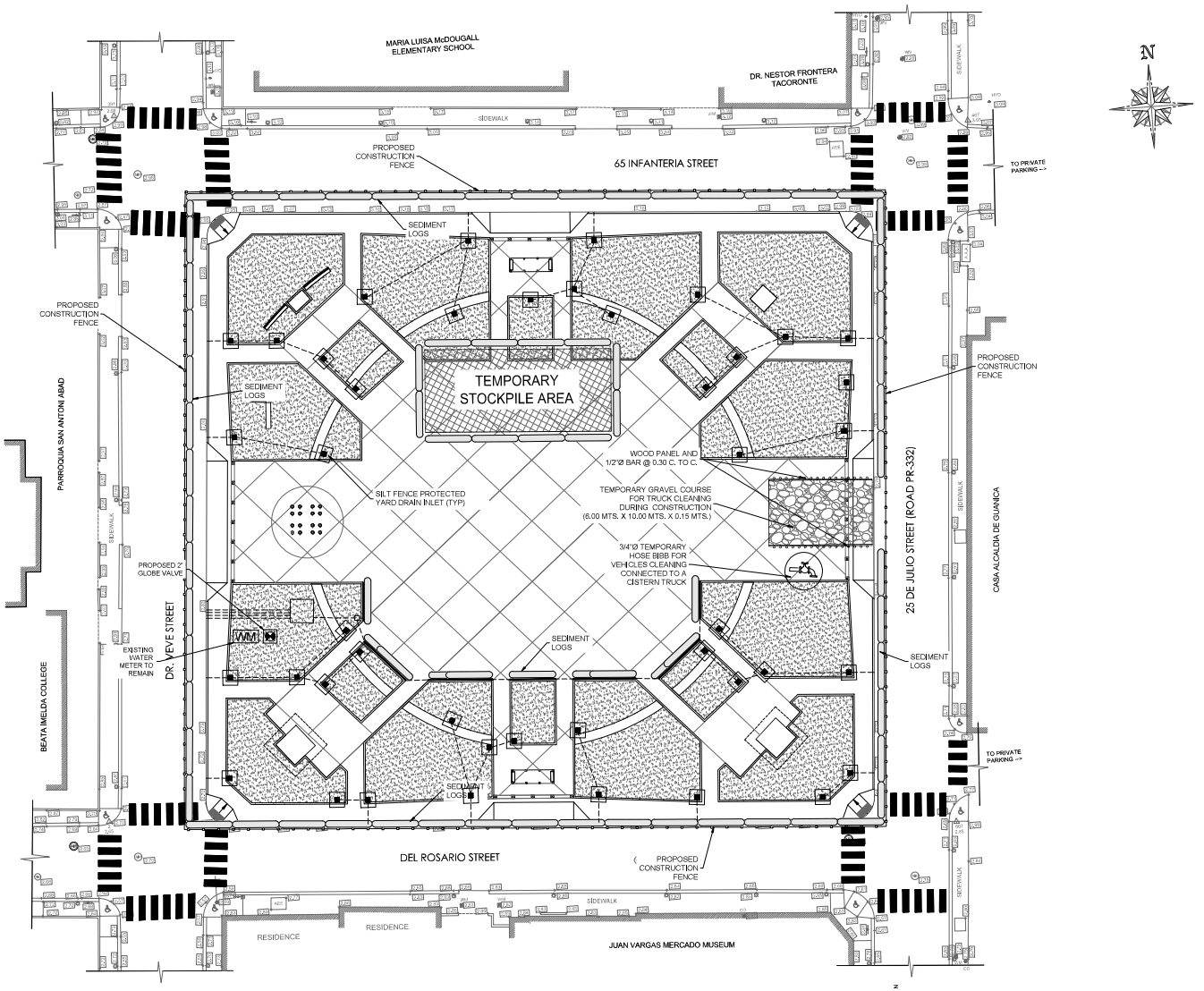
AS04

CES PLAN NOTES:

1. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SWALES, AND CHANNELS THAT ARE NEAR THE PROJECT AREA PRIOR TO COMMENCING ANY EXCAVATION. PROTECTION FOR CATCH BASINS, SWALES, AND CHANNELS MAY BE REMOVED WHEN THE LOCAL INSTALLATION IS COMPLETED. SEE INSTALLATION DETAILS IN THESE DRAWINGS.
2. CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL AT THE NEAREST APPROVED FACILITY NO LATER THAN TWO (2) CALENDAR DAYS AFTER REMOVAL.
3. CONTRACTOR SHALL RESTORE ALL PAVED AREAS AND RE-SEED GRASS AREAS NO LATER THAN 24 HOURS AFTER WORK IS COMPLETED, OR AS INSTRUCTED BY THE ENGINEER.
4. CONTRACTOR SHALL INSPECT SEDIMENT BARRIERS AFTER EACH RAIN EVENT AND REPAIR THEM IMMEDIATELY AFTERWARDS. SEDIMENT SHALL BE REMOVED FROM THE BARRIERS WHEN THEY REACH HALF ITS HEIGHT.
5. CONTRACTOR SHALL REFER TO THE ER SERIES OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY'S (PRHTA) STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND APPLICATIONS REGARDING EROSION AND SEDIMENT CONTROL.
6. NO FILL SHALL BE STORED WITHOUT COMPACTION FOR MORE THAN SEVEN (7) CALENDAR DAYS.
7. TRUCKS AND OTHER MOBILE CONSTRUCTION EQUIPMENT SHALL HAVE THEIR WHEELS CLEANED AT ESTABLISHED CLEANING AREAS BEFORE EXITING THE PROJECT.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES PRESENTED ON THESE PLANS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVEMENT ACTIVITIES.
9. IF NEEDED, A DEWATERING BAG SHALL BE INSTALLED AT LOCATIONS INDICATED BY THE ENGINEER. THE DEWATERING BAG USED SHALL BE SEDCATCH OR SIMILAR. FOR ADDITIONAL INFORMATION, CONTACT SEDCATCH, WWW.SEDCATCH.COM.
10. SILT FENCES SHALL BE CONSTRUCTED USING GEOTEXTILE CLASS "A" IN COMPLIANCE WITH SPECIFICATION 712.
11. CONTRACTOR SHALL NOT PERFORM OIL CHANGES AT ANY TIME ON SITE. FURTHERMORE, IF ANY OIL SPILLS OCCUR DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL IMMEDIATELY SECURE THE AREA AND DISPOSE OF CONTAMINATED MATERIAL FOLLOWING ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
12. EROSION AND SEDIMENT CONTROL PLAN MEASURES SHALL BE INSPECTED AND REPAIRED TO ORIGINAL CONDITIONS AFTER EACH RAINFALL EVENT THAT EXCEEDS 2" IN 24 HOURS.
13. SEDIMENT SHALL BE REMOVED, AND ALL EROSION CONTROL MEASURES RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH.
14. EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA STABILIZED UPON COMPLETION OF WORK.

CES LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- PROPOSED CONSTRUCTION FENCE
- SEDIMENT LOG
- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION (7.30 MTS. X 10.00 MTS. X 0.15 MTS.)
- 3/4"Ø TEMPORARY HOSE BIBB FOR TRUCK CLEANING
- SILT FENCE AROUND YARD DRAIN INLET



CES PLAN

SCALE=1:200

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

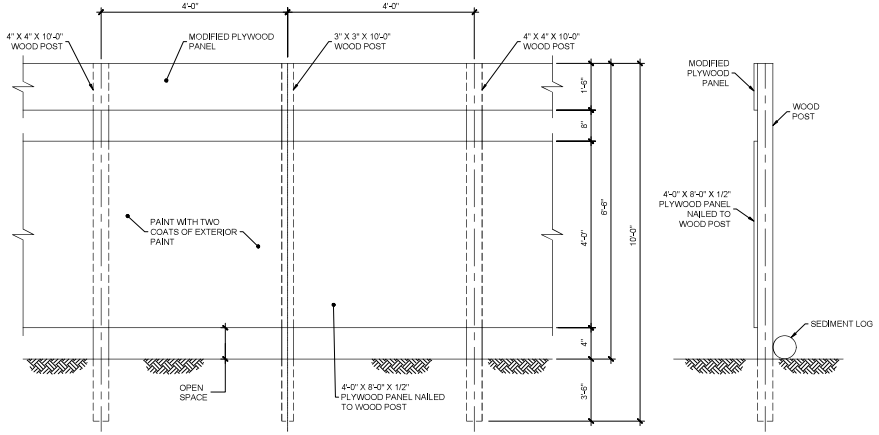
#	fecha	descripcion	por
-	-	-	

Documentos de Construccion

CES PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

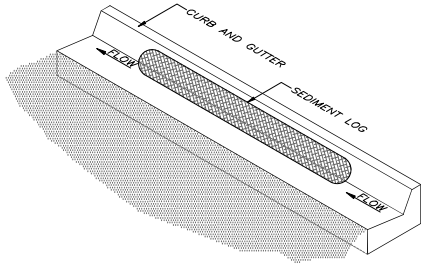
C-1



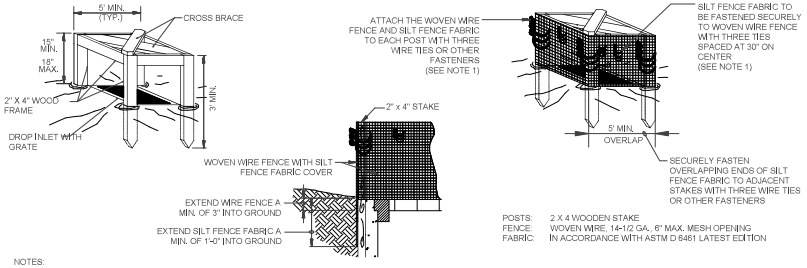
FRONT VIEW

SIDE VIEW

TEMPORARY CONSTRUCTION FENCE



SEDIMENT LOG DETAIL



POSTS: 2 X 4 WOODEN STAKE
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENING
FABRIC: IN ACCORDANCE WITH ASTM D 6461 LATEST EDITION

NOTES:

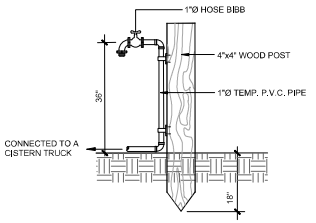
1. ATTACH THE WOVEN WIRE FENCE AND THE GEOTEXTILE TO EACH POST (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC.
4. ALL SILT FENCE INLET PROTECTIONS SHALL INCLUDE WIRE SUPPORT.

MAINTENANCE NOTES:

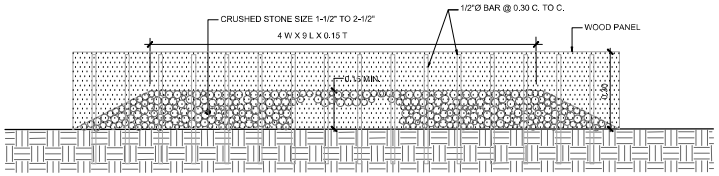
1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

SILT FENCE INLET PROTECTION

N.T.S.



TEMP. HOSE BIBB DETAIL



TRUCK WASHING FACILITIES

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

CES DETAILS

drawn by TAG drawing sheet number:
checked by CGT
date
plot scale 1=1
trg num

C-2

LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- SLOPE PATTERN
- L1 or C1 — ALIGNMENT ID
- # — COORDINATES ID
- # — KEY NOTES ID
- CROSSWALK
- ACCESIBLE RAMP

GENERAL NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS, AND OTHER RELATED PLANS, HAS BEEN PREPARED CONSIDERING THE INFORMATION INCLUDED IN THE FOLLOWING PLAN(S): "AS-BUILT PLAN PLAN OF PLAZA PUBLICA MANUEL JIMENEZ DE GUANICA" PREPARED BY SURVEYOR , LIC.NO 7528. AND DATED JULY 11,2022.

3. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT, SIDEWALKS AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, THE CONTRACTOR SHALL REPAIR ANY AFFECTED AREA OF ASPHALT PAVEMENT BY PERFORMING A 2" COLDMILLING AND REPAVE WITH 2" OF HOT PLANT MIX BITUMINOUS ASPHALT TYPE S(75).

4. HORIZONTAL CONTROLS ARE REFERRED TO THE PUERTO RICO LAMBERT COORDINATE SYSTEM (NAD 83 (2011/PA11/MA 2011) EPOCH 2010.00).

5. ELEVATIONS ARE REFERRED TO PUERTO RICO VERTICAL DATUM 2002 (PRVD02).

6. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

7. FOR SITE DETAILS, REFER TO DWG. C-5 TO C-5.2.

8. PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.

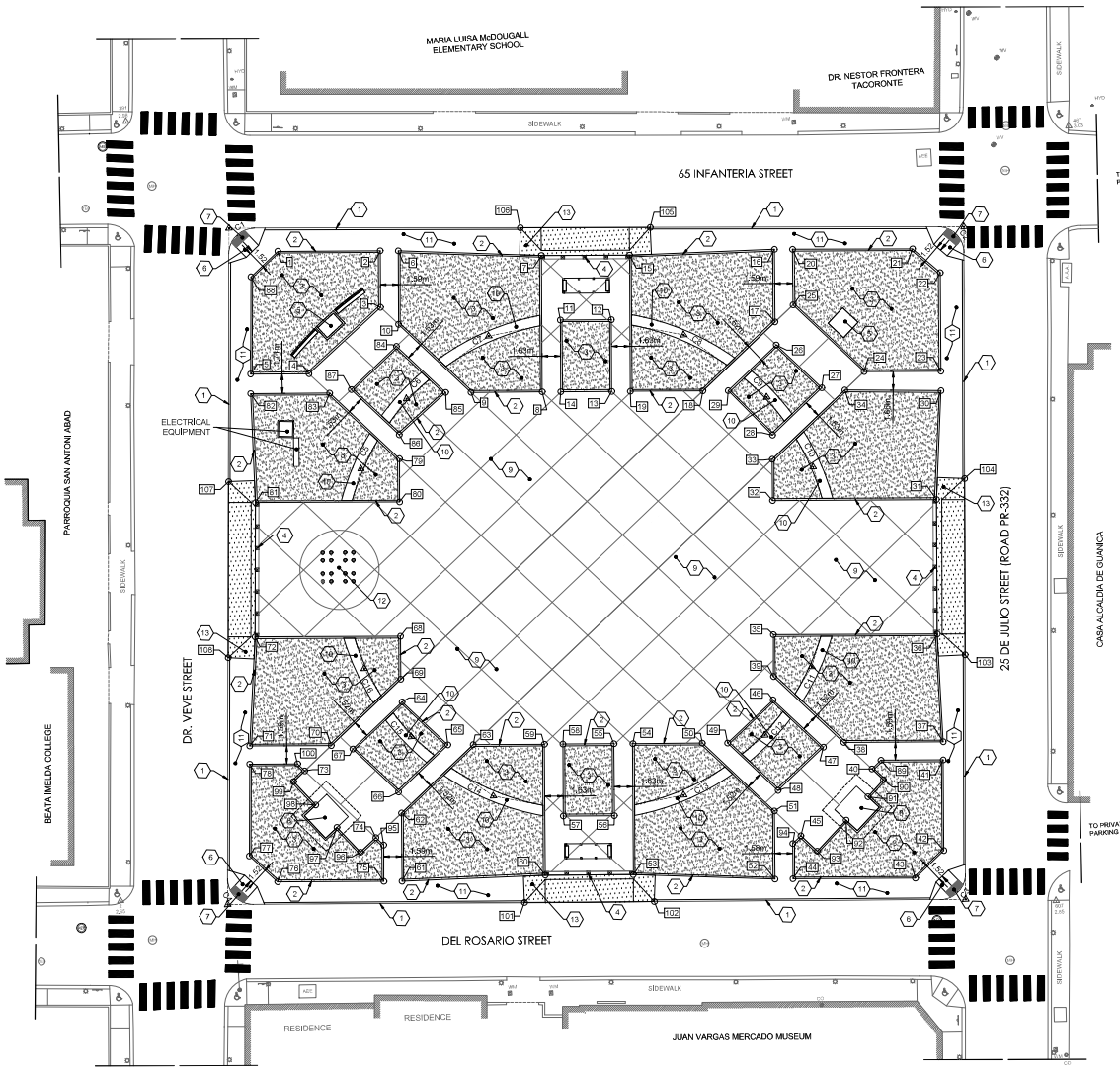
9. ALL SIDEWALKS, CURB AND GUTTER, STREET PAVING, CURB CUTS, DRIVEWAY APPROACHES, ACCESSIBLE RAMPS, ETC, CONSTRUCTED IN THE RIGHT-OF-WAY SHALL CONFORM TO ALL MUNICIPAL AND/OR STATE SPECIFICATIONS AND REQUIREMENTS.

10. ALL DISTURBANCE INCURRED TO ANY ADJOINING PROPERTY DUE TO CONSTRUCTION OR DEMOLITION SHALL BE RESTORED TO THE PREVIOUS CONDITION OR BETTER, AND TO THE SATISFACTION OF THE CITY OR STATE AUTHORITY.

11. FOR ORNAMENTAL FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. PROPOSED CURB TYPE "D"
2. PROPOSED GRANITE TILE, REFER TO ARCHITECTURAL PLANS.
3. PROPOSED PLANTING
4. PROPOSED GRANITE VEHICULAR CONTROL BOLLARDS, REFER TO ARCHITECTURAL PLANS.
5. MONUMENT, REFER TO ARCHITECTURAL PLANS.
6. PROPOSED ACCESIBLE RAMP
7. DETECTABLE WARNING FIELD
8. KIOSK, REFER TO ARCHITECTURAL PLANS.
9. CONCRETE SLAB, REFER TO STRUCTURAL PLANS FOR THICKNESS, CONCRETE STRENGTH AND CONSTRUCTION JOINTS TYPES AND DISTRIBUTION.
10. PROPOSED PEDESTRIAN CROSSING STRIP. REFER TO ARCHITECTURAL PLANS.
11. EXISTING CONCRETE SIDEWALK WITH NEW SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.
12. PROPOSED FOUNTAIN AREA
13. NEW CONCRETE SIDEWALK AND SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.



GEOMETRICAL SITE PLAN

SCALE=1:200

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

GEOMETRICAL SITE PLAN

drawn by TAG drawing sheet number:
checked by CGT
file:
plot scale 1=1
trg num

C-3

VERTEX DATA TABLE							
ID	Δ	R	T	E	L	P.I. COORDINATES N	P.I. COORDINATES E
C1	89-45-55	2,25	2,24	0,93	3,53	215,486,5970	149,707,2647
C2	89-58-13	2,25	2,25	0,93	3,53	215,482,2296	149,771,5545
C3	89-44-13	2,25	2,24	0,92	3,52	215,423,4132	149,767,5897
C4	90-31-39	2,25	2,27	0,95	3,56	215,427,4692	149,703,0045
C5	15-17-57	21,39	2,87	0,19	5,71	215,464,7542	149,717,3254
C6	13-53-33	21,39	2,61	0,16	5,19	215,470,6040	149,721,7511
C7	24-14-46	21,39	4,60	0,49	9,05	215,475,5841	149,729,3096
C8	24-29-45	21,39	4,64	0,50	9,15	215,474,4929	149,746,3805
C9	13-54-49	21,39	2,61	0,16	5,19	215,468,5358	149,753,2641
C10	15-16-39	21,39	2,88	0,19	5,72	215,462,1542	149,756,8882
C11	14-56-41	21,39	2,81	0,18	5,58	215,444,6890	149,755,5330
C12	13-55-01	21,39	2,61	0,16	5,20	215,438,9846	149,751,0373
C13	23-08-16	21,39	4,38	0,44	8,64	215,434,2578	149,743,5624
C14	23-23-42	21,39	4,43	0,45	8,73	215,435,3319	149,726,9085
C15	13-54-57	21,39	2,61	0,16	5,20	215,441,0300	149,720,0835
C16	14-53-07	21,39	2,79	0,18	5,56	215,447,2666	149,716,3827

SITE COORDINATES	
PT NO.	COORDINATES
1	N 215,484,2837 E 149,711,3865
2	N 215,483,7016 E 149,720,3417
3	N 215,478,7609 E 149,720,0205
4	N 215,473,3860 E 149,713,3631
5	N 215,473,7118 E 149,708,2537
6	N 215,483,5873 E 149,721,9277
7	N 215,482,3043 E 149,734,4120
8	N 215,470,3750 E 149,733,6533
9	N 215,470,7724 E 149,727,4181
10	N 215,477,1589 E 149,721,5031
11	N 215,476,5449 E 149,735,6763
12	N 215,476,2603 E 149,740,1408
13	N 215,469,9855 E 149,739,7400
14	N 215,470,2716 E 149,735,2764
15	N 215,481,7906 E 149,742,1221
16	N 215,481,4137 E 149,754,8327
17	N 215,475,0687 E 149,754,4350
18	N 215,469,4791 E 149,747,7102
19	N 215,469,8836 E 149,741,3632
20	N 215,481,3090 E 149,756,4173

SITE COORDINATES	
PT NO.	COORDINATES
21	N 215,480,6154 E 149,766,9163
22	N 215,478,3582 E 149,769,1929
23	N 215,469,7503 E 149,768,6443
24	N 215,470,1763 E 149,761,9296
25	N 215,476,4491 E 149,756,1204
26	N 215,473,0453 E 149,754,4009
27	N 215,469,0161 E 149,758,1327
28	N 215,465,1976 E 149,753,5329
29	N 215,469,3377 E 149,749,9283
30	N 215,468,0394 E 149,768,5352
31	N 215,458,5509 E 149,767,4723
32	N 215,459,4651 E 149,753,1284
33	N 215,463,0727 E 149,753,3581
34	N 215,468,6875 E 149,760,1315
35	N 215,447,7354 E 149,752,3806
36	N 215,446,7951 E 149,766,7230
37	N 215,437,3296 E 149,766,5892
38	N 215,437,8848 E 149,757,8777
39	N 215,444,0723 E 149,752,1471
40	N 215,435,3958 E 149,760,1797

SITE COORDINATES	
PT NO.	COORDINATES
41	N 215,435,7444 E 149,766,4769
42	N 215,427,8160 E 149,765,9716
43	N 215,425,5813 E 149,763,3276
44	N 215,426,2648 E 149,752,6034
45	N 215,429,9787 E 149,753,5638
46	N 215,442,0293 E 149,751,9615
47	N 215,437,5910 E 149,756,0721
48	N 215,434,0834 E 149,751,8409
49	N 215,438,5340 E 149,747,7188
50	N 215,438,6847 E 149,745,5021
51	N 215,432,3182 E 149,751,3980
52	N 215,426,3537 E 149,751,0315
53	N 215,427,6111 E 149,738,6706
54	N 215,439,0619 E 149,739,4357
55	N 215,439,1670 E 149,737,7755
56	N 215,432,8771 E 149,737,3749
57	N 215,433,1616 E 149,732,9113
58	N 215,439,4495 E 149,733,3123
59	N 215,439,5521 E 149,731,6894
60	N 215,426,1025 E 149,730,9591

SITE COORDINATES	
PT NO.	COORDINATES
61	N 215,428,4448 E 149,718,3983
62	N 215,434,4080 E 149,718,7784
63	N 215,439,9474 E 149,725,4611
64	N 215,444,1208 E 149,719,5083
65	N 215,440,0888 E 149,723,2427
66	N 215,436,2763 E 149,718,6434
67	N 215,440,3085 E 149,714,9089
68	N 215,449,8739 E 149,719,7646
69	N 215,446,1147 E 149,719,5245
70	N 215,440,7423 E 149,713,0434
71	N 215,441,1980 E 149,705,9081
72	N 215,450,7074 E 149,707,0518
73	N 215,438,6895 E 149,710,5669
74	N 215,432,4167 E 149,716,3761
75	N 215,428,5459 E 149,716,8134
76	N 215,429,1543 E 149,707,5164
77	N 215,431,5782 E 149,705,2017
78	N 215,439,6139 E 149,705,7949
79	N 215,465,4049 E 149,720,7539
80	N 215,461,6209 E 149,720,5128

SITE COORDINATES	
PT NO.	COORDINATES
81	N 215,462,4448 E 149,707,9057
82	N 215,472,0018 E 149,708,1419
83	N 215,471,5605 E 149,715,0527
84	N 215,475,2464 E 149,721,1868
85	N 215,470,9135 E 149,725,2036
86	N 215,467,5067 E 149,720,8879
87	N 215,471,7492 E 149,716,9680
88	N 215,482,2094 E 149,708,8850
89	N 215,436,0926 E 149,761,0307
90	N 215,434,3672 E 149,761,1311
91	N 215,432,9881 E 149,759,6597
92	N 215,431,0739 E 149,757,6174
93	N 215,428,5312 E 149,754,9045
94	N 215,429,3536 E 149,752,8003
95	N 215,431,7229 E 149,717,0160
96	N 215,431,2320 E 149,714,9469
97	N 215,433,5525 E 149,713,0364
98	N 215,435,6422 E 149,711,3159
99	N 215,437,8224 E 149,709,5209
100	N 215,439,3459 E 149,709,9858

SITE COORDINATES	
PT NO.	COORDINATES
101	N 215,425,8377 E 149,728,9833
102	N 215,425,1240 E 149,740,3480
103	N 215,444,8053 E 149,769,0318
104	N 215,460,2099 E 149,770,0702
105	N 215,484,0941 E 149,744,1083
106	N 215,484,8539 E 149,732,7460
107	N 215,464,4415 E 149,705,6811
108	N 215,449,0531 E 149,704,5703

GEOMETRICAL DATA AND TABLES

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTA IMPORTANTE:
1. - ESTE DOCUMENTO Y TODA LA INFORMACIÓN, CONCEPTOS, DISEÑOS Y PLANOS CONTENIDOS EN ESTE, HA SIDO PREPARADO POR TRG ARCHITECTS PSC, Y ES OBJETO DE LA PROTECCIÓN DE LOS DERECHOS DE AUTOR QUE OSTENTA LA MISMA, DE ACUERDO CON LAS LEYES Y REGLAMENTOS VIGENTES EN LOS ESTADOS UNIDOS DE AMÉRICA Y EN EL RESTO DEL MUNDO.
2. - EL CAMBIO, ALTERACIÓN, REPRODUCCIÓN O USO NO AUTORIZADO DE ESTE DOCUMENTO, SIN EL PERMISO POR ESCRITO DE TRG ARCHITECTS PSC, PODRÁ CONSTITUIR UNA VIOLACIÓN DE LOS DERECHOS DE AUTOR ANTES MENCIONADOS, LOS CUALES SON PROTEGIDOS EN LA MÁXIMA EXTENSIÓN QUE PERMITAN LAS LEYES Y REGLAMENTOS VIGENTES EN LOS ESTADOS UNIDOS DE AMÉRICA Y EN EL RESTO DEL MUNDO. CUALQUIER VIOLACIÓN A LOS DERECHOS DE AUTOR ANTES MENCIONADOS, PODRÁ SER CAUSA PARA REQUERIR INDEMNIZACIÓN POR DAÑOS Y PERJUICIOS, ASÍ COMO LA IMPOSICIÓN DE ACTOS PUNITIVOS CONTRA LA PERSONA RESPONSABLE. ESTOS DERECHOS SE EXTIENDEN TANTO A LAS PARTES GRÁFICAS COMO A LA FORMA ESCRITA DE ESTE DOCUMENTO. CUALQUIER USO NO AUTORIZADO SIN EL CONSENTIMIENTO POR ESCRITO DE TRG ARCHITECTS PSC, PODRÁ IMPLICAR RESPONSABILIDADES LEGALES PARA LA PERSONA RESPONSABLE DE DICHO USO NO AUTORIZADO. EN CASO DE DISCREPANCIA ENTRE LOS DOCUMENTOS IMPRESOS Y LA VERSIÓN DIGITAL DE TRG ARCHITECTS PSC, PREVALECERÁ LA VERSIÓN ORIGINAL DIGITAL DE TRG ARCHITECTS PSC.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

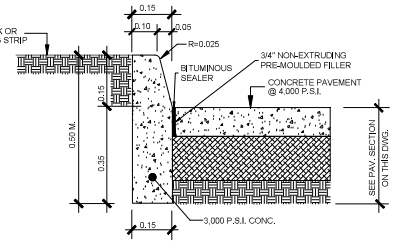
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

GEOMETRICAL DATA AND TABLES

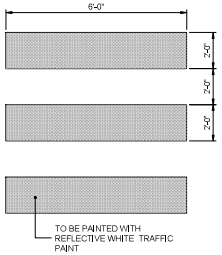
drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-4



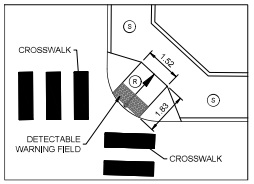
TYPE "D" CONCRETE CURB

NOT TO SCALE



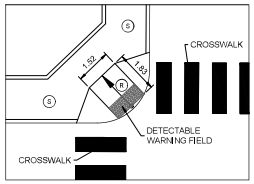
CROSSWALK DETAIL

NOT TO SCALE



RAMP AR-1

NOT TO SCALE

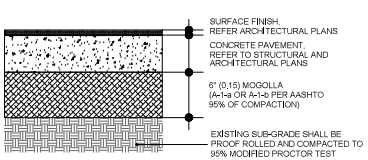


RAMP AR-2

NOT TO SCALE

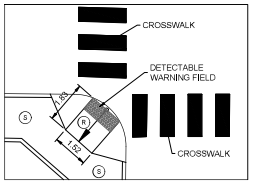
RAMPS GENERAL NOTES:

1. THE MAXIMUM CROSS SLOPES OF RAMPS MUST NOT EXCEED 2% IN ANY DIRECTION.
2. USE A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE TO CREATE A SLIP RESISTANT SURFACE ON CONCRETE RAMP SURFACES, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
3. CONSTRUCT CURB RAMP PERPENDICULAR TO THE CURB. AVOID SKEWING THE RAMP FACE.
4. CONSTRUCT RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, OR STREET THAT ARE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES NOT TO EXCEED 2.5 INCHES.
5. AT POINTS WHERE A CHANGE IN SLOPE OCCURS, THE ALGEBRAIC GRADE DIFFERENCE SHALL NOT EXCEED 11%.
6. LOCATE DRAINAGE INLETS AND MANHOLES OUTSIDE OF RAMP WALKING SURFACES OR LANDINGS.
7. LOCATE DETECTABLE WARNING FIELD 6 INCHES BEHIND BACK OF CURB.
8. WALKING SURFACE WITH DETECTABLE WARNING FIELD (TRUNCATED DOMES) SHALL BE A SUBSIDIARY OBLIGATION TO THE CONTRACTOR AND PAID UNDER SPECIFICATION 608.
9. ANY TYPE OF ADA RAMPS, INCLUDING LANDING, FOR WHEEL CHAIRS AND HANDICAPPED PERSONS WILL BE MEASURED BY THE SQUARE METER OF COMPLETED AND ACCEPTED RAMP SURFACE.
10. THE DIMENSIONS AND MATERIALS OF SIDEWALK SHALL BE IN CONFORMITY WITH THE DETAILS, LINES AND GRADES SHOWN ON THE CONTRACT PLANS ORAS ESTABLISHED BY THE ENGINEER.
11. THE RAMPS AND SIDEWALKS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION 608-"SIDEWALKS".
12. THE DETECTABLE WARNING FIELD SHALL BE YELLOW IN COLOR TO PROVIDE HIGH VISIBILITY TO THE VISUALLY IMPAIRED.



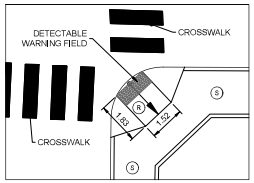
TYPICAL CONCRETE SLAB SECTION

NOT TO SCALE



RAMP AR-3

NOT TO SCALE

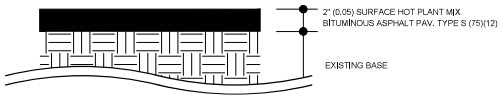


RAMP AR-4

NOT TO SCALE

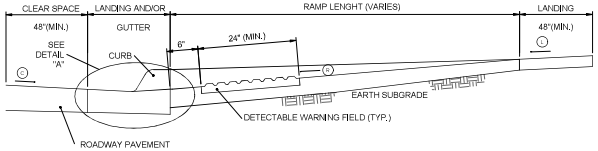
SLOPE TABLE		
DESCRIPTION	MAX RUNNING SLOPE*	MAX CROSS SLOPE**
LANDING	2% (1V:50H)	2% (1V:50H)
RAMP	8,33% (1V:12H)	2% (1V:50H)
PARALLEL RAMP	7,1% (1V:14H)	2% (1V:50H)
CLEAR SPACE	5% (1V:20H)	2% (1V:50H)
SIDEWALK	——	2% (1V:50H)
TRANSVERSABLE SURFACE	10% (1V:10H)	——

*RUNNING SLOPE IS IN DIRECTION OF PEDESTRIAN TRAVEL.
**CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.



TYPICAL ASPHALT SECTION FOR MUNICIPAL STREET (AT COLD MILLED AREA)

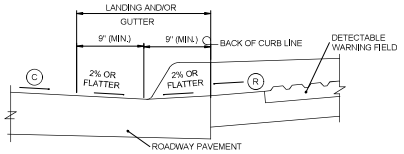
NOT TO SCALE



RAMP SECTION

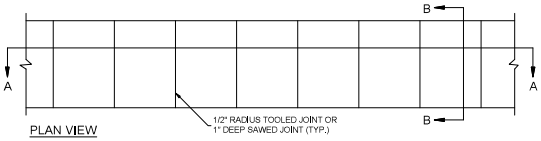
TYPICAL SECTION THROUGH RAMP RUN AND LANDINGS WITH UPPER LANDING AT NORMAL SIDEWALK ELEVATION

NOT TO SCALE



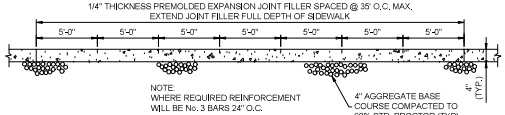
DETAIL "A"

NOT TO SCALE

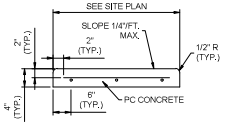


PLAN VIEW

NOTE:
PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS



SECTION A-A



SECTION B-B

CONCRETE SIDEWALK DETAIL

NOT TO SCALE

NOTE:
FOR SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

SITE DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file:
plot scale 1=1
trg num

C-5

GRADING NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS PLAN AND OTHER RELATED ONES, HAS BEEN PREPARED CONSIDERING THE INFORMATION SUPPLIED BY TRG ARCHITECTS, PSC.

3. PRIOR TO START CONSTRUCTION, THE OWNER SHALL ENGAGE THE SERVICES OF A CONSULTING GEOTECHNICAL ENGINEER WHO SHALL DIRECT AND SUPERVISE THE EARTHWORK OPERATIONS. CONTRACTOR SHALL ALSO COMPLY WITH THE RECOMMENDATIONS THAT SAID CONSULTANT MAY ESTABLISH DURING THE PROJECT CONSTRUCTION.

4. UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER,

(A) MATERIAL FOR FILL OR EMBANKMENT SHALL BE AS PER AASHTO CLASSIFICATION A-2-4 OR BETTER, COMPACTED TO DENSITIES OF 95% ON ALL AREAS, AS DETERMINED BY THE ASTM D-1557(MODIFIED PROCTOR TEST), DEPOSITED IN LAYERS WITH SUCH THICKNESS AS REQUIRED BY THE NATURE OF SOIL, BUT NEVER TO EXCEED TEN (10) INCHES , AND SHALL EXHIBIT A MOISTURE CONTENT RANGING FROM +2 TO +4% ABOVE THE OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION.

(B) SLOPES SHALL NOT BE STEEPER THAN 1.5 TO 1.0 FOR CUTS AND 2.0 TO 1.0 FOR FILLS.

(C) ALL SLOPES EXCEEDING 2.0 TO 1.0 AND DIRT SWALES SHALL BE SODDED IMMEDIATELY WITH BERMUDA GRASS, PLANTED IN BLOCKS, TO PREVENT EROSION.

5. THE TOPSOIL NEEDED TO PROVIDE THE FINAL GRADES FOR LAWNS AND PLANTING AREAS SHALL BE PROPERLY STOCKPILED WITHIN THE PROJECT LIMITS.

6. ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS, SUBGRADES AND GRADES ARE AS FOLLOWS:

(A) FOR BUILDING FLOOR SLAB, GRADE TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.

(B) FOR STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS, GRADE TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.

(C) FOR LAWNS & PLANTING AREAS, GRADE TO FOUR INCHES (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH ACCEPTABLE TOPSOIL.

7. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, CONTRACTOR SHALL REPAVE ANY AFFECTED AREA OF PAVEMENT WITH 2" HOT PLANT MIX BITUMINOUS ASPHALT TYPE S (75).

8. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY, THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

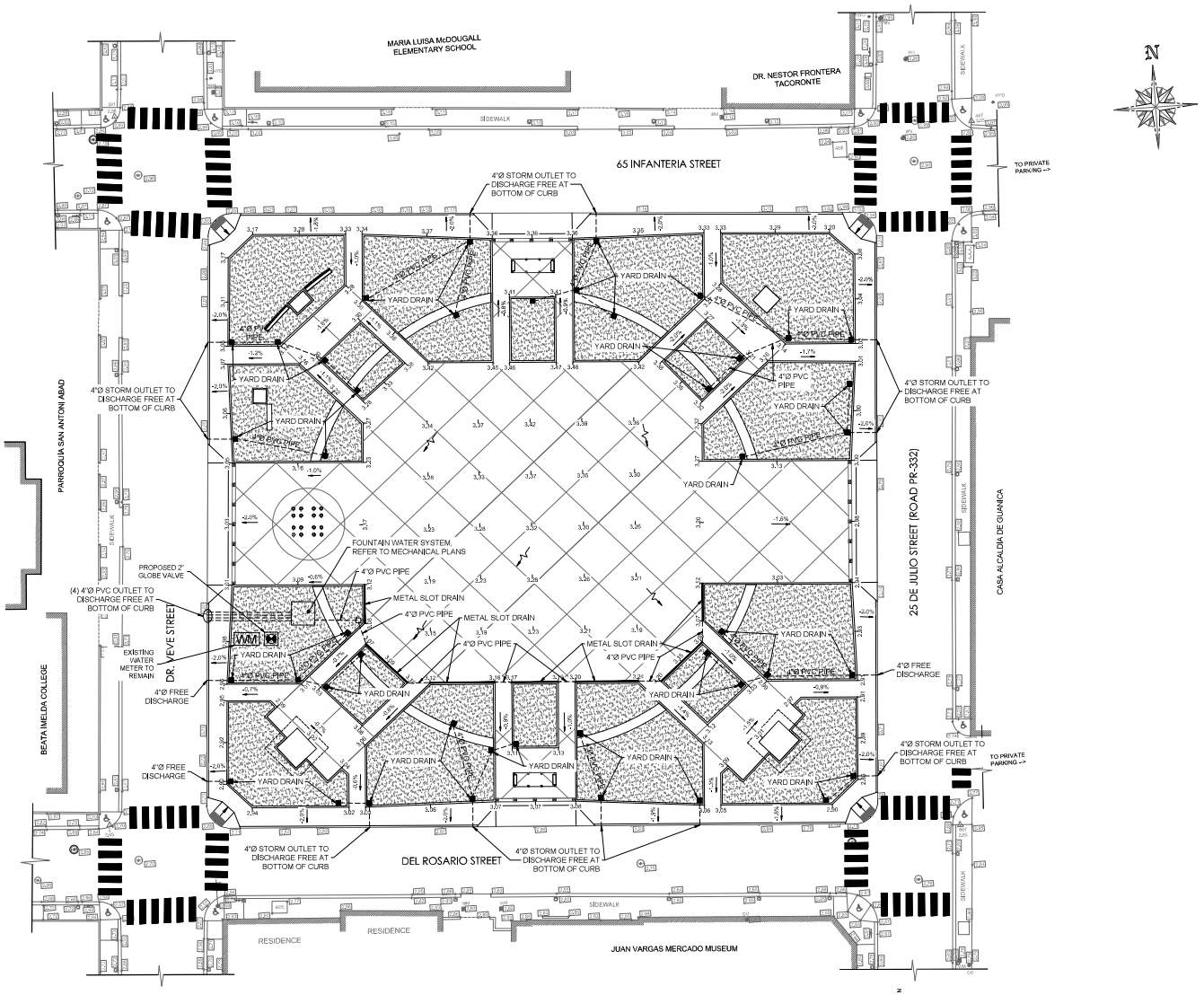
9. CONTRACTOR SHALL VERIFY, AGAINST THE ELECTRICAL DRAWINGS, ANY POWER, TELEPHONE AND LUMINARY POLES SHOWN ON THIS DRAWINGS AS EXISTING TO REMAIN OR TO BE RELOCATED. IN CASE OF DISCREPANCIES, THE ELECTRICAL DRAWINGS SHALL TAKE PRECEDENCE.

10. FOR FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

11. STORM SEWER LINES SHALL BE AS FOLLOWS:
- a) FOR R.C.P., USE CLASS III.
- b) FOR P.V.C. PIPE LESS THAN 18"Ø, USE P.V.C. SEWER PIPE A.S.T.M. D-3034.
- c) FOR P.V.C SEWER PIPE RANGING FROM 18" AND 30"Ø, USE P.V.C. A.S.T.M. F-1803.

LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- SLOPE PATTERN
- PROPOSED ELEVATIONS
- EXISTING ELEVATIONS
- CONTOUR INTERVAL AT 1.00m
- CONTOUR INTERVAL AT 0.25m
- YARD DRAIN (SPEED-D BASIN SYSTEM WITH 9" GREEN PLASTIC SQUARE GRATES BY NDS OR SIMILAR).
- 4"Ø PVC PIPE
- METAL SLOT DRAIN, REFER TO ARCHITECTURAL PLANS



EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

SCALE=1:200

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

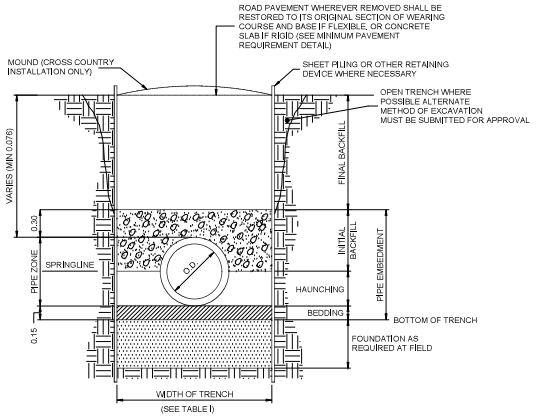
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

drawn by TAC drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-6



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I

WIDTH OF TRENCH

DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
4" - 15"	O.D. + 12"
16" - 27"	O.D. + 18"

NOTE:

* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0,90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4, WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTES/REMARKS:

1. - ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS, DISEÑOS Y NOTAS CONTENIDAS EN ESTE, CON EXCEPCION DE LOS PLANOS ESPECIFICOS, ESTAN PROTEGIDOS BAJO LAS LEYES DE PROPIEDAD INTELECTUAL Y NO PUEDEN SER REPRODUCIDOS, UTILIZADOS O DIVULGADOS SIN EL PERMISO ESCRITO DE TRG ARCHITECTS PSC.

2. - EL CAMBIO, ALTERACION, REMOCION O ELIMINACION DE CUALQUIER SELLO DE PROFESIONAL QUE APARECE EN ESTE PLANO O EN LOS DOCUMENTOS COMPLEMENTARIOS, TAMBIEN CONSTITUYE UNA VIOLACION A LAS LEYES DE PROPIEDAD INTELECTUAL Y LAS LEYES QUE REGULAN EL EJERCICIO DE LA PROFESION. CUALQUIER USO NO AUTORIZADO DE LOS DISEÑOS, CONCEPTOS O NOTAS CONTENIDAS EN ESTE PLANO, CON EXCEPCION DE LOS PLANOS ESPECIFICOS, ESTARA SUJETO A DEMANDA, CON LA PROHIBICION DE ESTOS ACTOS, Y CONLA OBLIGACION DE PAGAR LOS DAÑOS OCASIONADOS POR LA VIOLACION DE LOS DERECHOS DE AUTOR. LA PRESENTACION DE PLANOS, DISEÑOS O NOTAS CONTENIDAS EN ESTE PLANO PARA LA SOLICITUD DE PERMISOS CONSTITUYE UNA CESION DE LOS MISMOS A LOS FINES DE DICHA SOLICITUD. TODO USO DE ESTOS PLANOS, DISEÑOS O NOTAS CONTENIDAS EN ESTE PLANO PARA CUALQUIER OTRO PROPOSITO QUE NO SEA EL DE LA SOLICITUD DE PERMISOS ESTA PROHIBIDO SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS PSC. TRG ARCHITECTS PSC NO SE RESPONSABILIZA POR CAMBIOS, ALTERACIONES O MODIFICACIONES QUE SE LE HAGAN A ESTOS PLANOS, DISEÑOS O NOTAS CONTENIDAS EN ESTE PLANO SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS PSC. TRG ARCHITECTS PSC NO SE RESPONSABILIZA POR CAMBIOS, ALTERACIONES O MODIFICACIONES QUE SE LE HAGAN A ESTOS PLANOS, DISEÑOS O NOTAS CONTENIDAS EN ESTE PLANO SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS PSC.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

STORM SEWER SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file:
plot scale 1=1
trg num

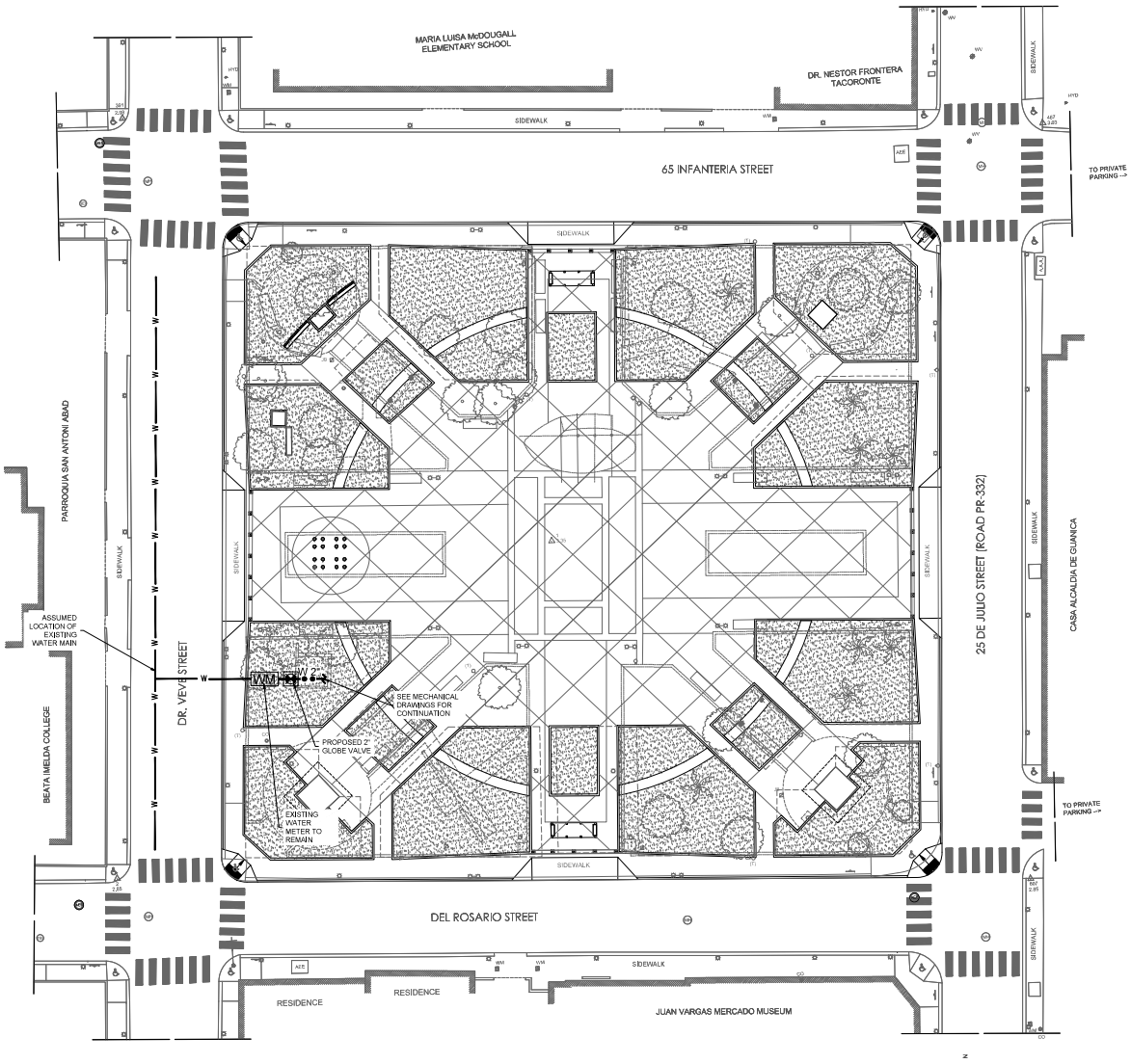
C-7

WATER NOTES:

1. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
2. ALL 2"Ø DIAMETER CONNECTIONS SHALL BE INSTALLED WITH 180 DEGREES SLEEVES AND SERVICE CLAMPS.
3. ALL INSTALLATIONS SHALL BE PERFORMED ACCORDING TO PUERTO RICO AQUEDUCT AND SEWER AUTHORITY'S (P.R.A.S.A.) REGULATIONS.
4. A 6" DETECTABLE BLUE TAPE, LIKE THE ONE MANUFACTURED BY "REFF INDUSTRIES, INC" OR SIMILAR, SHALL BE INSTALLED ON THE PIPE, THE TAPE SHALL BE LOCATED ON TOP AND PARALLEL TO THE PIPE AT A DEPTH OF 0,30 MTS (12") UNDER THE SURFACE.
5. CONCRETE THRUST BLOCKS SHALL BE PROVIDED WHENEVER A CHANGE IN THE PIPE'S DIRECTION OCCURS.
6. IT IS NECESSARY TO EXCAVATE THE AREA WHERE PROJECT CONNECTION IS LOCATED TO VERIFY DEPTH AND PIPE MATERIAL PRIOR TO PLACING ASPHALT. THE CORRESPONDING INSPECTION SHALL BE REQUESTED TO PRASA BY THE CONTRACTOR.
7. THE CONTRACTOR OR PROJECT OWNER SHALL SUBMIT EVIDENCE OF PAYMENT FOR CONNECTION TO THE SYSTEM PRIOR TO RECEIVING FINAL ENDORSEMENT OF THE PROJECT.
8. ALL CONNECTION PIECES SUCH AS TEES, VALVES, PLUGS, ETC, SHALL BE MADE OF CAST IRON.
9. THE PIPE SHALL BE INSTALLED AT A DEPTH OF 0,75 MTS FROM THE SURFACE TO THE TOP OF THE PIPE AND AT A MIN. DISTANCE OF 1,50 MTS FROM THE CURB.
10. THE FIRE HYDRANTS SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENTS. FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
11. THE OWNER OR REPRESENTATIVE SHALL NOTIFY TO P.R.A.S.A.'S OFFICE, IN WRITING, WHEN WORKS BEGIN.
12. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE SPECIFICATIONS OF P.R.A.S.A. AND WITH THE ADDITIONAL CONDITIONS INDICATED IN THE WRITTEN APPROVAL. IN CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE WRITTEN APPROVAL BY P.R.A.S.A., THE WRITTEN APPROVAL SHALL PREVAIL.
13. P.R.A.S.A. RESERVES THE RIGHT TO REQUIRE ANY CHANGES NOT INCLUDED IN THE PROJECT DUE TO OMISSIONS OR INVOLUNTARY ERRORS IF, TO ITS BEST JUDGMENT, ARE NECESSARY FOR THE PROPER FUNCTIONING OF THE WATER DISTRIBUTION SYSTEM.
14. THE WATER METER BOXES SHALL BE INSTALLED OUT OF THE ROADWAY, PARKING OR MOTOR VEHICLES ACCESS RAMPS.
15. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT. FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
17. THE WATER METER BOX SHALL BE INSTALLED USING COPPER TYPE "K" OR BRONZE PIPE OF EQUAL COMPLIANCE FOR METERS 1"Ø AND SMALLER.
18. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE. WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
19. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE. WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
20. THE DISTANCE BETWEEN THE WATER SERVICE CONNECTION AND THE SANITARY SEWER CONNECTION SHALL BE MORE THAN OR EQUAL TO 10 FEET. THE INSTALLATION OF BOTH SERVICES IN THE SAME TRENCH IS NOT PERMITTED.
21. AN AIR RELEASE VALVE SHALL BE INSTALLED AT ALL HIGH POINTS OF WATER PIPELINE THE LOCATION SHALL BE DETERMINED AT THE FIELD.
22. IN ORDER TO OBTAIN PRASA'S ACCEPTANCE OF THE PROJECT, IT SHALL BE PAVED WHEN PRASA'S FINAL VALIDATION IS PERFORMED.
23. THE WATER SERVICE PIPE SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE ELECTRIC, TELEPHONE AND CABLE TV SERVICE PIPES.
24. CONTRACTOR SHALL PROVIDE AND INSTALL ANTI-THEFT DEVICES FOR THE FIRE HYDRANTS IN THE PROJECTS.
25. THE PROJECT OWNER SHALL PERFORM A HYDRAULIC PRESSURE TEST TO THE WATER DISTRIBUTION SYSTEM PIPE AT A MINIMUM PRESSURE OF 150 PSI OR 1.5 TIMES THE REGISTERED PRESSURE IN THE WATER DISTRIBUTION SYSTEM ADJACENT TO THE PROJECT, THE TEST SHALL LAST FOR A MINIMUM OF 15 MINUTES AND NO PRESSURE LOSS SHALL BE REGISTERED THROUGHOUT THE TEST. P.R.A.S.A.'S PUBLIC & PRIVATE PROJECTS OFFICE PERSONNEL SHALL BE PRESENT DURING THE TEST IN ORDER TO VALIDATE THE SAME.
26. THE EQUIPMENT FOR THE PRESSURE TEST SHALL BE PROVIDED BY THE CONTRACTOR OR PROJECT PLUMBER. FOR PRESSURES OF 150 PSI, THE MANOMETER SCALE SHALL NOT EXCEED 200 PSI.
27. ANY NECESSARY CHANGE, RELATED TO THE POTABLE WATER DISTRIBUTION SYSTEM, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.

FIRE CONTROL METER NOTES:

1. ALL CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE FLANGED, MADE OF CAST IRON OR DUCTILE IRON AND FIRE RATED.
2. ALL EXPOSED CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE PAINTED WITH AN ANTI-CORROSION COATING.
3. IN CASE THE WATER TABLE IS HIGH, THE 4"Ø WATER METER SHALL BE INSTALLED ABOVE THE TERRAIN LEVEL IN A LOCATION DESIGNATED BY THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.).
4. THE METER BOX SHALL BE INSTALLED OUT OF PROPERTY LIMITS.
5. THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.) WILL ONLY BE RESPONSIBLE FOR THE METER, THE PROJECT OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND CONSERVATION OF ALL INSTALLATION AFTER THE METER.
6. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
7. ALL EXPOSED PIECES INSIDE THE WATER METER SHALL BE METALLIC.
8. THE USE OF DIELECTRIC COUPLINGS IS REQUIRED WHEN USING DISSIMILAR MATERIALS.
9. A DOUBLE CHECK VALVE SHALL BE INSTALLED AFTER THE NIPPLE FOLLOWING THE METER.
10. THE GATE VALVE SHALL HAVE AN OPERATOR OR HANDLE.
11. THE METER INSIDE THE BOX SHALL BE INSTALLED IN SUCH WAY THAT FACILITATES ITS READING WHEN THE COVER IS LIFTED.
12. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
13. THE BOX COVERS SHALL HAVE HOLES IN ORDER TO RAISE THEM PARALLEL TO THEIR FRAME RAILS OR GUIDES.
14. A GATE VALVE SHALL BE INSTALLED AFTER THE WATER METER AT A DISTANCE NO MORE THAN 2 FEET INSIDE THE PROPERTY LIMIT.
15. THE WATER METER BOX SHALL BE CONSTRUCTED OUT OF THE ROADWAY, PARKING, AND MOTOR VEHICLES OR PEDESTRIAN ACCESS RAMPS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT (LIGHTNING POLES, TRANSFORMERS, GROUND RODS, ETC.).
17. ANY NECESSARY CHANGE, RELATED TO THE METER, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.
18. ALL BOLTS TO BE USED IN THE WATER METER INSTALLATION INSIDE THE BOX SHALL BE MADE OF STAINLESS STEEL.
19. COVER AND FRAMES OF EXISTING MASTER METERS (DOMESTIC AND FIRE) SHALL BE PAINTED WITH TWO (2) LAYERS OF RED OXIDE PRIMER AND TWO (2) LAYERS OF MARINE OIL BASED PAINT. CONTRACTOR SHALL COORDINATE WITH PRASA THE COLOR TO BE APPLIED.



ABBREVIATION:

P.V.C.=	POLYVINYL CHLORIDE
C.T.K.=	COPPER TYPE "K"
R.G.J.=	RUBBER GASKET JOINT
G.V.=	GATE VALVE
T.B.=	THRUST BLOCK
S.C.=	SERVICE CLAMP
T.E.=	TOP ELEVATION
I.E.=	INVERT ELEVATION
S.=	SLOPE
L.=	LENGTH

WATER LEGEND:

- W — EXISTING 4"Ø WATER MAIN PIPE
- W 2" — PROPOSED 2"Ø WATER PIPE COPPER TYPE "K" (C.T.K.)
- WM — EXISTING 2" WATER METER
- PROPOSED VALVE

WATER PIPE DATA

DIAMETER	MATERIAL	LENGTH (METERS)
2"	COPPER PIPE TYPE "K" ASTM B-88	5

WATER DISTRIBUTION SYSTEM PLAN

SCALE=1:200

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

P.R.A.S.A. STAMP

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
T 787 821-2777

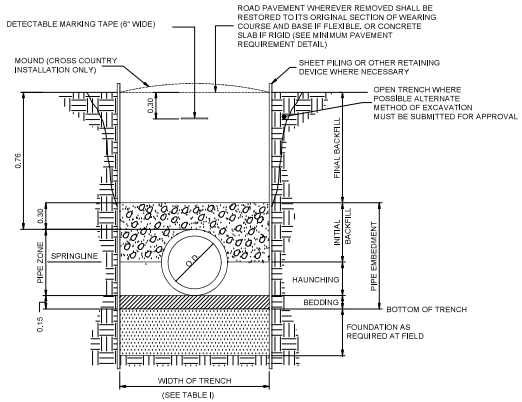
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-8



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I WIDTH OF TRENCH		NOTE:
DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)	* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.
4" - 15"	O.D. + 12"	
16" - 27"	O.D. + 18"	

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS, TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

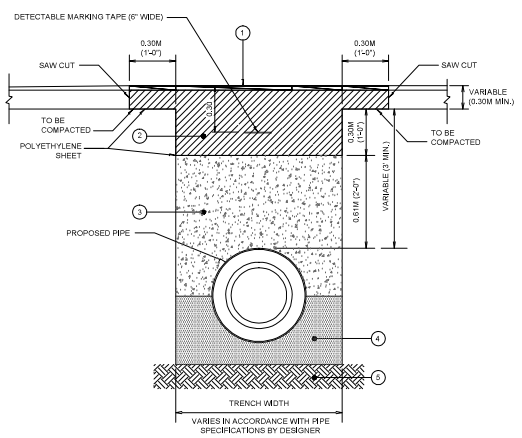
1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0,90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

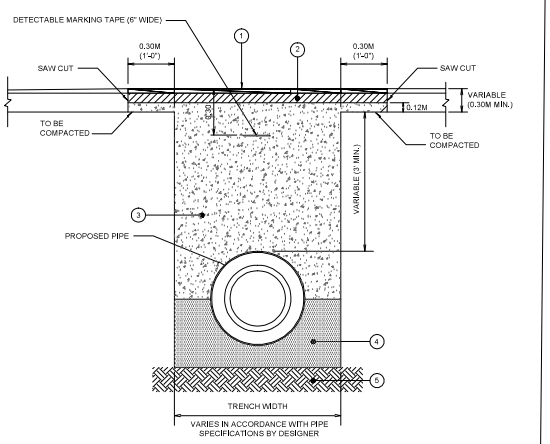
1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4, WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS, ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.



LEGEND:

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. FLOWABLE FILL BASE AS PER SPECIFICATION 905 (PRHTA) WITH THE EXCEPTION THAT COMPRESSIVE STRENGTH AT 28 DAYS SHALL NOT BE GREATER THAN 100 PSI AND NO LESS THAN 50 PSI AS DETERMINED IN ACCORDANCE WITH ASTM D 4832
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "A" IN EXISTING ROAD



LEGEND

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. 0,10 ASPHALT BASE COURSE HOT PLANT MIX BITUMINOUS CONCRETE PAVEMENT, B(75) AS PER SPEC 401 (PRHTA)
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "B" IN EXISTING ROAD

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
T 787 821-2777

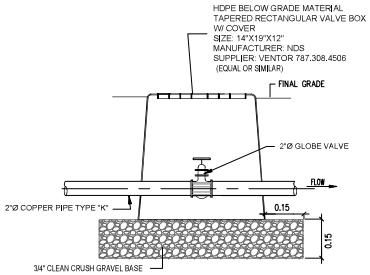
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM DETAILS

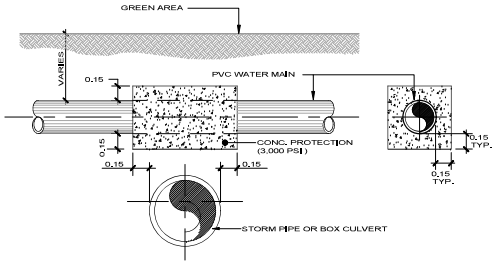
drawn by TAG drawing sheet number:
checked by CGT
date
plot scale 1=1
trg num

C-9



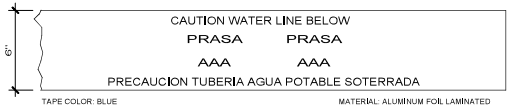
2" GLOBE VALVE WITH
RECTANGULAR VALVE BOX

NOT TO SCALE



CONCRETE PROTECTION FOR WATER
PIPE WHEN CROSSING W/ STORM LINE

NOT TO SCALE



TAPE COLOR: BLUE
IMPRINT COLOR: BLACK

MATERIAL: ALUMINUM FOIL LAMINATED
BETWEEN TWO LAYERS OF
INERT PLASTIC FILM

DETECTOR MARKING TAPE DETAIL
FOR WATER DISTRIBUTION PIPE

NOT TO SCALE

TERRA TAPE BY REEF
INDUSTRIES OR APPROVED
SIMILAR

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032786 San Juan, Puerto Rico
00902-3786, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
1 787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

WATER DISTRIBUTION
SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
date
plot scale 1=1
trg num

C-9.1

ABBREVIATIONS: (ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

A

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACCU	AIR COOLED CONDENSING UNIT
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CURRENT
AMPS	AMPERES
ANSI	AMERICA NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY

B

BFF	BELOW FINISHED FLOOR
BKR	BREAKER
BLDG	BUILDING

C

C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CKT	CIRCUIT
℄	CENTER LINE
CU	COPPER
CT	CURRENT TRANSFORMER

D

D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DEG	DEGREES
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING

E

EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING

F

FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FT	FOOT, FEET
FVNR	FULL-VOLTAGE, NON-REVERSING

G

G,GND	GROUND
GA	GAUGE
GAL	GALLON
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY

H

H	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
HV	HIGH VOLTAGES

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND

J

J-B	JUNCTION BOX

K

KCMIL	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
KWH	KILOWATT-HOUR

L

LRA	LOCKED ROTOR AMPS
LTG	LIGHTING

M

MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFGR	MANUFACTURER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED

N

N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

O

OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

P

PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM

S

SD	SMOKE DAMPER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SURF	SURFACE
SUSP	SUSPEND

T

TC	TIME CLOCK
TYP	TYPICAL

U

U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

V

V	VOLT
VA	VOLT-AMPERE

W

W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
WT	WATERTIGHT, WEIGHT

X

XFMR	TRANSFORMER

ELECTRICAL SYMBOLS: (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

LIGHTING:

- SURFACE OR RECESSED LIGHTING FIXTURE, LETTER DENOTES TYPE. (NL DENOTES NIGHT LIGHT)
- WALL WASHER LIGHTING FIXTURE, LETTER DENOTES TYPE.
- EXIT SIGN, ARROWS AS INDICATED, LETTER DENOTES TYPE DARKENED AREA DENOTES LIGHTED FACE.
- STRIP LED LIGHTING FIXTURE, LETTER DENOTES TYPE.
- LIGHT FIXTURE ON EMERGENCY OR UNSWITCHED CIRCUIT, LETTER DENOTES TYPE.
- LED OR HID LIGHT FIXTURE, LETTER DENOTES TYPE, DRAWN TO SCALE.
- WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE.(NL DENOTES NIGHT LIGHT)
- STAGGERED STRIP LED FIXTURE, LETTER DENOTES TYPE.
- EMERGENCY LIGHT, BATTERY OPERATED.

SWITCHES:

- $ SWITCH, SPST, 20A, 120/277V.
- $3W SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY.
- $L SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $K SWITCH, SPST, 20A, 120/277V, "K" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "N" DENOTES NARROW MULLION SWITCH.
- DIMMER CONTROL SWITCH, 2000 WATT UNLESS OTHERWISE NOTED.
- $MS WALL MOUNTED INFRARED MOTION SENSOR.
- DOUBLE POLE SWITCH 30A-250V-3W-QUIET TYPE W/PILOT LIGHT, 4'-0"(1219) A.F.F.

RECEPTACLES AND OUTLETS

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V. "C" DENOTES CLOCK OUTLET.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "H" DENOTES MOUNTED HORIZONTALLY.
- DUPLEX WALL RECEPTACLE MOUNTED 6" (152) ABOVE COUNTER OR BACKSPLASH.
- DUPLEX RECEPTACLE 20A,125V,3W, ISOLATED GROUND, AT 1'-6" A.F.F.
- DUPLEX WALL RECEPTACLE, "WP" DENOTES WEATHERPROOF, "TR" DENOTES SAFETY TYPE, "GFI" DENOTES GROUND FAULT INTERRUPTER. "SS" DENOTES SURGE SUPRESSION "IG" DENOTES ISOLATED GROUND.
- QUADRUPLEX RECEPTACLE 20A,125V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- DUPLEX RECEPTACLE 20A-125V W/G.F.I., 1'-6" A.F.F.
- DITTO, BUT 3'-6" A.F.F.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- FLOOR RECEPTACLE FLUSH MOUNTED.
- CEILING RECEPTACLE FLUSH MOUNTED.
- SINGLE RECEPTACLE 30A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- SINGLE RECEPTACLE 50A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- TV TELEVISION CABLE OUTLET @ 6'-8" (2032) A.F.F.
- C CLOCK OUTLET.
- MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R, 20A, 125V AT 12" (304) ON CENTER.
- J JUNCTION BOX.
- POWER/TELEPHONE/DATA POLE (FOR MODULAR FURNITURE).
- T FLOOR TELEPHONE OUTLET FLUSH MOUNTED.
- D FLOOR DATA OUTLET FLUSH MOUNTED.
- $D FLOOR RECEPTACLE/TELEPHONE OUTLET FLUSH MOUNTED.
- TD FLOOR DATA/TELEPHONE OUTLET FLUSH MOUNTED.
- TP TELEPHONE OUTLET "P" DENOTES PAY/PUBLIC TELEPHONE.
- DATA OUTLET.
- TD TELEPHONE & DATA OUTLET.

CIRCUITING AND WIRING

- CIRCUIT CONCEALED IN WALL OR CEILING.
- CIRCUIT BELOW SLAB OR GRADE.
- U/G UNDERGROUND CIRCUIT/DUCTBANK.
- HASH MARKS INDICATE NUMBER OF CONDUCTORS (LEFT TO RIGHT: NEUTRAL/PHASE/SWITCH LEG/GROUND). NO HASH MARKS INDICATE #12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED.
- HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- CONDUIT STUB UP.
- CONDUIT STUB DOWN.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL.
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD.
- 120/208V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- 277/480V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- T DRY-TYPE TRANSFORMER.
- ATS AUTOMATIC TRANSFER SWITCH.
- PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' x 8' x 3/4" (1219 x 2438 x 19) UNLESS OTHERWISE NOTED.
- TERMINAL CABINET, TYPE AS NOTED 24" x 48" x 3½" (609 x 1219 x 89) UNLESS OTHERWISE NOTED.

MOTOR AND CONTROLS

- SINGLE OR THREE PHASE MOTOR.(NUMBER INSIDE SYMBOL CAN INDICATE HORSEPOWER)
- DISCONNECT (SAFETY) SWITCH "200/3" DENOTES AMPERES/POLES.
- FUSED DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLES/FUSE.WHEN FUSE SIZE IS OMITTED, CONTRACTOR SHALL COORDINATE FUSE SIZE AT FIELD FOLLOWING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- MOTOR STARTER, VOLTS, ENCLOSURE & NEMA SIZE AS NOTED, H-O-A SWITCH & PILOT LIGHT ON COVER, PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/15/3/1" DENOTES AMPERES/FUSE(OR BREAKER)/ POLES/NEMA STARTER SIZE, "NF" DENOTES NON-FUSED, H-O-A SWITCH & PILOT LIGHT ON COVER. PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
- C LIGHTING CONTACTOR, VOLTS, & AMPS. AS SHOWN, NEMA TYPE ENCLOSURE AS INDICATED.
- PC PHOTOCELL.
- PB PUSH BUTTON STATION.
- TC TIME CLOCK.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, DESIGNATION AND RATINGS AS NOTED.
- SWITCH, RATINGS AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- FUSE, RATING AS SHOWN.
- CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- DRAWOUT CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- ST SHUNT TRIP.
- 99 GROUND FAULT RELAY.
- M WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL.
- CT CURRENT TRANSFORMER(CT), RATED AS SHOWN.
- GROUND CONNECTION.
- LIGHTNING ARRESTOR.
- AUTOMATIC TRANSFER SWITCH.

AUDIO/VIDEO

- S CEILING MOUNTED PUBLIC ADDRESS SPEAKER.
- WALL MOUNTED PUBLIC ADDRESS SPEAKER.
- VOLUME CONTROL, FLUSH IN WALL WITH SPEAKER.

MISCELLANEOUS

- 1 DRAWING NOTE REFERENCE.(NOTES BY SYMBOL)
- T THERMOSTAT.

SECURITY

- K KEY PAD.
- M MAGNETIC DOOR CONTACTS.(OD-OVERHEAD DOOR)
- MD CEILING MOUNTED MOTION DETECTOR.
- MD WALL MOUNTED MOTION DETECTOR.
- CCTV CAMERA.
- S ACCESS SECURE SWITCH.
- H KITCHEN HOOD.
- B DOOR BELL.
- B DOOR BELL/BUZZER.

MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)

1-WALL SWITCHES – 48"(1219) A.F.F. TO CENTER OF SWITCH.

2-WALL RECEPTACLES – 18"(457) AF.F. TO CENTER OF RECEPTACLE.

3-WALL TELEPHONE/DATA OUTLETS – 18"(457) A.F.F. TO CENTER OF RECEPTACLE.

4-PUBLIC TELEPHONE – 54"(1371) A.F.F. TO CENTER OF OUTLET.

5-CLOCK OUTLET – 84"(2133) A.F.F. TO CENTER OF OUTLET.

6-FIRE ALARM PULL STATION – 48"(1219) A.F.F. TO CENTER OF STATION.

7-FIRE ALARM HORN OR BELL – 80"(2032) A.F.F. TO CENTER OF HORN OR BELL.

SPECIAL NOTES: (FOR PROJECTS WITH 1 MILE FROM SEASHORE)

1-ALL ELECTRICAL EQUIPMENT ENCLOSURES(NOT LUMA RELATED) LOCATED OUTDOORS SHALL BE STAINLESS STEEL OR APPROVED NON METALLIC.

2-UNIT STRUT CHANNELS SHALL BE ALUMINUM OR FIBERGLASS.

3-CONDUIT STRAPS SHALL BE ALUMINUM OR NON METALLIC.

4-ALL EQUIPMENT OR HANGER HARDWARE SHALL BE STAINLESS STEEL OR ALUMINUM.

5-DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC GASKET.

6-EXPOSED CONDUITS SHALL BE PVC SCHEDULE 40 OR RIGID STEEL GALVANIZED PAINTED.

7-POLE RISERS SHALL BE PVC SCHEDULE 80.

8-SUBSTATION TRANSCLOSURE, TRANSFORMER TANKS & LUMA EQUIPMENT CABINETS SHALL BE STAINLESS STEEL AS PER LUMA'S SPECIFICATIONS.

9-METER BANKS SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION.

10-OUTDOOR H.V. CABLE TERMINATIONS SHALL BE 25KV RATED.

11-SUBSTATION LOUVER WINDOWS SHALL BE STAINLESS STEEL.

FIRE ALARM LEGEND:

- SD IONIZATION TYPE CEILING MOUNTED SMOKE DETECTOR.
- SDH IONIZATION TYPE WALL MOUNTED SMOKE DETECTOR. INSTALL SO THAT TOP OF DETECTOR IS NOT MORE THAN 12"(304) AND NOT LESS THAN 4"(101) FROM CEILING.
- SDH SAME AS ABOVE, BUT 120V.
- HD HEAT DETECTOR CEILING MOUNTED, FIXED TYPE.
- F PULL STATION, WALL MOUNTED, 4'-0"(1219) A.F.F. PROVIDE AT LEAST ONE PULL STATION PER FLOOR, ADD PULL STATIONS AS REQUIRED SO THAT MAXIMUM TRAVEL DISTANCE TO NEAREST STATION DOES NOT EXCEED 200 FT.(60.96m.)
- C COMBINATION FIRE ALARM HORN AND STROBE LIGHT, WALL MOUNTED, MOUNT HEIGHT SHALL BE NOT LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438).
- C CEILING MOUNTED COMBINATION FIRE ALARM HORN AND STROBE LIGHT, CEILING MOUNTED UNITS SHALL BE INSTALLED AS PER NFPA 72 TABLE 6-4.4.1(b)
- ST WALL MOUNTED STROBE LIGHT, MOUNT AT NO LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438) ABOVE FINISHED FLOOR.
- ST CEILING MOUNTED STROBE. INSTALL AS PER NFPA 72 TABLE 6-4.4.1(b)
- FAP FIRE ALARM STAND ALONE CONTROL PANEL. SEMI-FLUSH MOUNTED ADDRESSABLE TYPE, MODULAR DESIGN WITH ENOUGH CAPACITY TO SUPPORT DEVICES INDICATED, UNIT SHALL BE MICROPROCESSOR BASED, PRE-CONFIGURED, MODULAR DESIGN WITH INTELLIGENT INITIATING CIRCUITS TO SUPPORT SHOWN DEVICES. PROVIDE CABINET ROOM FOR SYSTEMS BATTERIES, BATTERIES AND BATTERY CHARGER.

FIRE ALARM NOTES:

1-WIRING SHALL BE AS RECOMMENDED BY SYSTEM'S MANUFACTURER.

2-COORDINATE FINAL CONDUIT SIZES WITH SYSTEM MANUFACTURER.

3-FINAL LOCATIONS OF DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL FINISHES AND NFPA-72 REQUIREMENTS, THE LATTER TO PREVAIL IN CASE OF DISCREPANCIES.

4-LOUDSPEAKERS AND THEIR ENCLOSURES SHALL BE LISTED FOR VOICE/ALARM SIGNALING SERVICES.

5-EACH ELEVATOR CAR SHALL BE EQUIPPED WITH A SINGLE LOUDSPEAKER. PROVIDE AN ELEVATOR PAGING ZONE TO SERVE THE ELEVATOR GROUP.

6-PROVIDE SEPARATE ZONES TO SERVE STAIRWAY SPEAKERS. PROVIDE SPEAKERS IN ALL ENCLOSED STAIRWAYS EXCEEDING TWO STORIES IN HEIGHT.

7-PROVIDE SEPARATE ZONES TO SERVE ELEVATOR LOBBY SMOKE DETECTORS. CONNECT THESE SMOKE DETECTORS TO FAP AND ELEVATOR RECALL PANEL.

8-VISIBLE APPLIANCES SHALL BE LOCATED NO MORE THAN 15 FT.(4572) FROM THE END OF THE CORRIDOR WITH A SEPARATION NO GREATER THAN 100 FEET(30.48m.) BETWEEN APPLIANCES.

9-FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 101, NFPA 72 AND DEPT. DE BOMBEROS DE P.R. REQUIREMENTS. IN CASE OF DISCREPANCY THE STRINGEST CODE WILL APPLY.

GENERAL NOTES:

1-EMT CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4"(19) IPS MINIMUM SIZE.

2-EMT FITTINGS SHALL BE CONCRETE TIGHT.

3-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.

4-WIRING DEVICES AND PLATES SHALL BE IVORY COLORED, SPECIFICATION GRADE.

5-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND LUMA REGULATIONS, LATEST EDITION.

6-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7-DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8-ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9-CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

10-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.

12-CONTRACTOR MUST SUPPORT ALL RECESSED FIXTURES INDEPENDENTLY FROM HUNG CEILING SUPPORT.

13-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MINIMUM DEPTH OF 36"(914) BELOW FINISHED GRADE, UNLESS COVERED BY 4"(101) CONCRETE ENVELOPE IN WHICH CASE MINIMUM DEPTH SHALL BE 18"(457) BELOW FINISHED GRADE.

14-IN CASE OF SUBSTATION WITH PRIMARY METERING, A 3/4"(19) PVC SCHEDULE 40 EMPTY CONDUIT SHALL BE INSTALLED BETWEEN PRIMARY METER COMPARMENT AND MAIN TELEPHONE CABINET.

15-LAUNDRY RECEPTACLES SHALL BE INSTALLED 6"(152) ABOVE WATER FAUCETS SERVING WASHER.

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
T.787.465.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:
1.- ESTE DOCUMENTO Y TODA LA INFORMACION CONTENIDA EN EL MISMO, INCLUYENDO LOS DISEÑOS ARQUITECTONICOS Y DE INGENIERIA, ASI COMO LOS CONCEPTOS ALLI EXPRESADOS, ESTAN PROTEGIDOS POR LAS LEYES DE DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES. ESTOS NO PUEDEN SER REPRODUCIDOS, PUBLICADOS, MODIFICADOS O UTILIZADOS PARA CUALQUIER PROPOSITO SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS, EXCEPTO SEGUN SE AUTORICE EXPRESAMENTE POR LEY O POR ESTE CONTRATO. EL USO NO AUTORIZADO DE ESTOS DISEÑOS Y CONCEPTOS SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS, INCLUYENDO, SIN LIMITACION, LA REPRODUCCION, PUBLICACION, MODIFICACION O USO PARA CONSTRUCCION, CONSTITUIRA UNA VIOLACION DE LOS DERECHOS DE AUTOR Y OTRAS LEYES APLICABLES. CUALQUIER PERSONA O ENTIDAD QUE INCURRA EN USO NO AUTORIZADO PODRA ESTAR SUJETA A RECLAMACIONES POR DAÑOS Y PERJUICIOS, INCLUYENDO, SIN LIMITACION, DAÑOS ACTUALES, COSTAS LEGALES Y HONORARIOS DE ABOGADOS, Y CUALQUIER INFRACCION PODRA SER PERSEGUIDA AGRESIVAMENTE HASTA EL MAXIMO GRADO PERMITIDO POR LA LEY. EL USO COMERCIAL NO AUTORIZADO PODRA DAR LUGAR A DAÑOS ADICIONALES.
2.- ANTES DE COMENZAR CUALQUIER TRABAJO, EL CONTRATISTA DEBERA VERIFICAR TODAS LAS CONDICIONES DEL SITIO Y LAS DIMENSIONES EXACTAS Y NOTIFICAR CUALQUIER DISCREPANCIA ENCONTRADA ANTES DE PROCEDER CON EL TRABAJO AFECTADO. EL CONTRATISTA ASUME TODA LA RESPONSABILIDAD POR CUALQUIER ERROR QUE PUDIERA HABERSE EVITADO DE HABER REALIZADO DICHA VERIFICACION.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del dueño:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1			

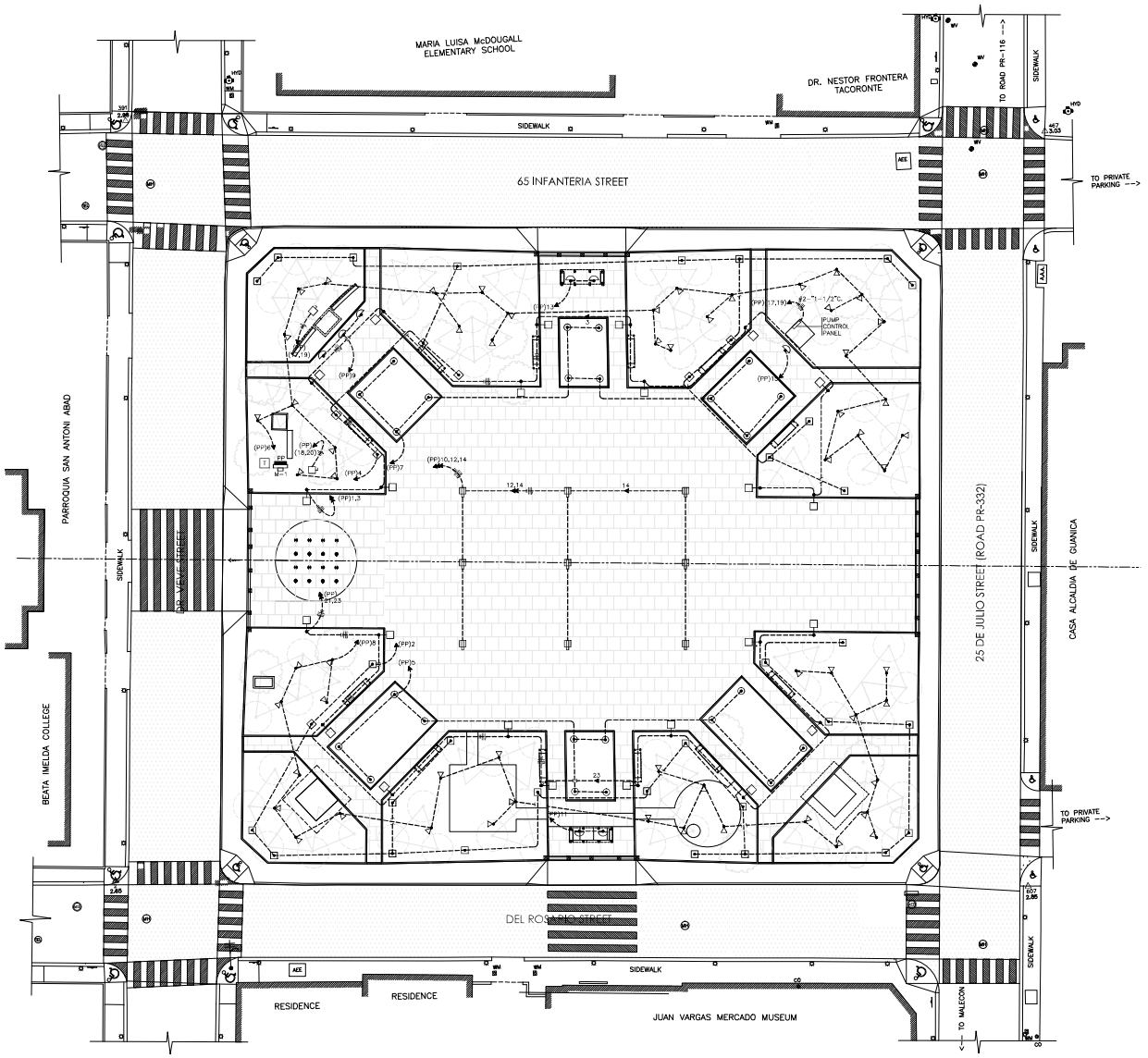
Desarrollo de Diseno Esquematico

LEGEND & NOTES

designed: Ing. A. Calzada lic.: 15089
drawn by: lic.:
This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1=1
trg num 22060

drawing sheet number:
E-0



SITE LEGEND:

- "BALI" LED HIGH LIGHT FIXTURE W/LAMPPOST, BY ESCOFET OR APPROVED EQUAL.
- "CREAM" MEDIUM LED LIGHT FIXTURE W/COLUMN BY ESCOFET, OR APPROVED EQUAL.
- "CREAM" LOW LED LIGHT FIXTURE W/CUBE BASE BY ESCOFET, OR APPROVED EQUAL.
- LANDSCAPE AMBIENT GROUND LIGHTING.
- LANDSCAPE AMBIENT FLOOD LIGHTING.
- FLOOR LEVEL UTILITY ELECTRICAL RECEPTACLES
- SERVICE CONNECTION TO NEW FOUNTAIN PUMP HOUSE
- SERVICE CONNECTION TO NEW WALK THRU WATER FOUNTAIN FEATURE.

ELECTRICAL SITE PLAN

Scale 1/16" = 1'-0"

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-3795
1.787.463.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1			

Desarrollo de Diseno Esquematico

ELECTRICAL SITE PLAN

JRR Ingeniería Consultiva
designed: Ing. A. Calzada Rc.: 15089
drawn by: Rc.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by: checked by: file: plot scale: 1=1 trg num 22.060

drawing sheet number:
E-1

ELECTRICAL CONSTRUCTION PLAN NOTES

GENERAL NOTES:

1-THESE PLANS COINCIDE WITH THE PLANS SUBMITTED AT "DGPE."

2-OWNER IS RESPONSIBLE OF OBTAINING ALL FEDERAL, STATE, MUNICIPAL & PRIVATE REQUIRED PERMITS & RIGHT OF WAYS CONCERNING THIS TYPE OF PROJECT.

3-OWNER MUST CONTRACT THE SERVICES OF A PUERTO RICO LICENSED ENGINEER WHO WILL BE RESPONSIBLE OF INSPECTING THE WORK IN ACCORDANCE WITH NUMBER 7 CERTIFICATION LAW JULY 19, 1985, AS AMENDED, AND WILL ENFORCE LUMA'S ELECTRICAL CONSTRUCTION PROJECT PLANS CERTIFICATION REGULATION. OWNER MUST NOTIFY LUMA, THE PRIVATE INSPECTOR DESIGNATION BEFORE PROJECT BEGINS.

4-ELECTRICAL CONTRACTOR SHALL PERFORM THIS WORK AS DESIGNED ON THESE DRAWINGS. CONTRACTOR MUST OBSERVE THE BEST ELECTRICAL CONSTRUCTION INDUSTRY PRACTICES. INSTALLATION SHALL BE IN ACCORDANCE WITH LUMA'S & CONCERNING AGENCIES ADOPTED RULES & REGULATIONS. NEC, NESC CODES, IEEE, NFPA, NEMA & ANSI ADOPTED STANDARDS.

5-CONTRACTOR IS NOT AUTHORIZED TO MAKE CHANGES TO THIS DESIGN. CONTRACTOR IS RESPONSIBLE FOR CONSULTING THE DESIGNER OR PROJECT DESIGNATED INSPECTOR REGARDING ANY DOUBT IN PLANS, INTERPRETATION, WORK EXECUTION, TECHNICAL SPECIFICATION, EXISTING FIELD CONDITION, DESIGN CRITERIA OR DISCREPANCIES THAT MAY APPEAR.

6-ELECTRICAL CONTRACTOR SHALL NOTIFY LUMA OF THE START OF CONSTRUCTION AT LEAST 15 DAYS BEFORE PROJECT START. CONTRACTOR SHALL DO SO BY FILING PREPA'S CONSTRUCTIONS START DOCUMENT.

7-ELECTRICAL CONTRACTOR AND PRIVATE INSPECTOR ARE RESPONSIBLE TO SCHEDULE, ASSIST & COORDINATE WITH LUMA'S CORRESPONDING REGION DISTRIBUTION ENGINEERING DEPARTMENT A PRE-CONSTRUCTION MEETING.

8-ALL WORK ON ENERGIZED LINES, INCLUDING THE PROJECT FINAL CONNECTION, MUST BE DONE BY LUMA AND THE OWNER MUST ASSUME ALL THE EQUIPMENT, MATERIAL & LABOR COST. OWNER FOR PROJECT'S CONTRACTOR MUST REQUEST TO LUMA A JOB QUOTE. THE QUOTE IS VALID FOR 3 MONTHS.

9-PERFORMING ANY KIND OF WORK ON ELECTRICAL RIGHT OF WAY WITHOUT LUMA'S WRITTEN AUTHORIZATION IS STRICTLY PROHIBITED.

10-LUMA WILL NOT APPROVE ANY CONNECTION OF PROJECTS THAT ARE INVADING RIGHT OF WAYS OR THAT DO NOT COMPLY WITH THE REQUIRED SECURITY SET BACKS.

SYSTEMS:

1-IT IS OWNER'S/CONTRACTOR RESPONSIBILITY TO PERFORM CABLE TESTS TO ALL PRIMARY AND SECONDARY FEEDERS AND STRESS CONES. TESTS RESULTS MUST BE IN ACCORDANCE WITH LUMA'S ESTABLISHED PARAMETERS FOR EACH TEST. TEST MUST BE PERFORMED IN COORDINATION WITH LUMA'S ENGINEERING DEPARTMENT'S INSPECTIONS OFFICE REPRESENTATIVE.

2-DURING CABLE INSTALLATION, CABLE MUST BE PROTECTED FROM HUMIDITY AND DAMAGES. CONTRACTOR IS RESPONSIBLE FOR INSTALLING CABLES USING RECOMMENDED PULLING TECHNIQUES IN ORDER NOT TO EXCEED SPECIFIED CABLE MAXIMUM PULLING TENSION.

3-MANHOLE COVERS TO BE INSTALLED AT GREEN PLANTING AREAS MUST BE PROTECTED USING A REINFORCED CONCRETE SLAB AS PER LUMA'S STANDARD URD-SE.

4-WHEN PROJECT LOCATION IS LESS THAN A MILE FROM SALTWATER BODIES, POLE RISER CONDUITS MUST BE EITHER PVC SCHEDULE 80 OR FIBERGLASS CONSTRUCTION AS APPROVED BY LUMA

5-UNDERGROUND CONDUIT DUCT BANK MUST BE INSPECTED BY LUMA BEFORE IT IS COVERED AND COMPACTED WITH EARTH.

6-ALL DUCT BANK EXPOSED TO VEHICULAR TRAFFIC MUST BE PROTECTED WITH A CONCRETE ENVELOPE. THOSE THAT ARE NEAR OTHER UTILITIES INSTALLATIONS MUST BE 18" MINIMUM SPACING FROM THEM.

7-THE QUANTITY OF SPARE FUSES THAT CONTRACTOR MUST SUPPLY IS THE SAME QUANTITY AS FUSES INSTALLED AT EACH SUBSTATION.

8-GROUNDING CONNECTORS TO BE USED FOR SUBSTATIONS MUST BE THERMO-WELD OR COMPRESSION TYPE.

9-CONTRACTOR MUST PROVIDE PULLING WIRE (FISHWIRE) AT EACH SPARE CONDUIT.

10-MAXIMUM GROUND RESISTANCE AT ALL DISTRIBUTION SYSTEMS MUST BE 10 OHMS. A GROUNDING ROD FOR NEUTRAL CONNECTION MUST BE INSTALLED FOR EVERY FOUR POLES OR EVERY 1,000 FEET AND IN ALL TRANSFORMERS.

11-TWO SPARE CONDUITS FOR FUTURE USE MUST BE INSTALLED AT EACH CONCRETE POLE BASE AS REQUIRED BY LUMA

12-CONCRETE POLE BASES MUST BE INSPECTED BY LUMA AT THE CONSTRUCTION PHASE.

MATERIALS:

1-ALL EQUIPMENT TO BE USED IN THE CONSTRUCTION HAS TO COMPLY WITH IEEE, ANSI, NEMA & ASTM STANDARDS.

2-CONTRACTOR IS RESPONSIBLE TO VERIFY WITH LUMA, PRIOR TO INSTALLATION, THAT ALL MATERIAL OR EQUIPMENT TO BE USED IS LUMA APPROVED. LUMA RESERVES THE RIGHT OF ACCEPTING ANY EQUIPMENT TO BE TRANSFERRED TO THEM.

3-ALL MATERIAL & EQUIPMENT (INCLUDING TRANSFORMERS & SUBSTATION ENCLOSURES) TO BE INSTALLED WITHIN ONE (1) MILE OR LESS OF SALTWATER BODIES MUST BE CONSTRUCTED IN STAINLESS STEEL.

4-FOR UNDERGROUND SYSTEMS, USE PRIMARY CABLES WITH 15KV STRESS CONE FOR DISTRIBUTION VOLTAGES AND 46KV STRESS CONE FOR 38KV VOLTAGE.

5-FOR OVERHEAD SYSTEMS, USE 15KV POLYMER INSULATORS FOR DISTRIBUTION VOLTAGES AND 46KV POLYMER INSULATORS FOR 38KV VOLTAGE.

6-CONTRACTOR IS RESPONSIBLE FOR PROPERLY MARKING ALL TRANSFORMERS TO BE TRANSFERRED TO LUMA WITH A PROPERTY NUMBER PROVIDED BY THE CORRESPONDING DISTRIBUTION ENGINEERING DEPARTMENT.

SPECIAL NOTES:

1-PROJECT OWNER SHALL PAY LUMA THE AMOUNT OF $26,400 FOR THE EXISTING ELECTRICAL SYSTEM IMPROVEMENTS.

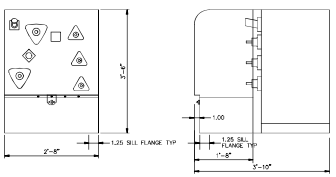
2-LUMA WILL NOT ENERGIZE THE PROJECT UNTIL THE OWNER HAS ESTABLISHED THE REQUIRED RIGHT OF WAYS IN ACCORDANCE WITH "REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA". THIS NOTE APPLIES TO ALL REQUIRED RIGHT OF WAY, INSIDE & OUTSIDE THE PROPERTY LIMITS.

3-THE INSTALLATION OF THE METERING SYSTEMS HAS TO BE COORDINATED WITH THE REGIONAL METERING OFFICE. DESIGNER OR ELECTRICAL CONTRACTOR HAS TO CONSULT WITH THIS OFFICE ABOUT MATERIALS & EQUIPMENTS TO BE USED AND EQUIPMENT LOCATION.

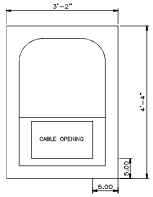
4-THE INSTALLATION OF ELECTRICAL SUBSTATIONS, TRANSFORMERS OR ANY OTHER ELECTRICAL EQUIPMENT OVER SEWER SYSTEM, WATER LINES OR ANY OTHER UTILITIES IS PROHIBITED.

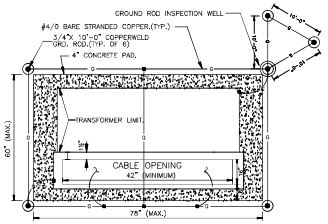
5-PRIOR TO PURCHASING ANY METERING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LUMA METERING SECTION THE AVAILABILITY OF EQUIPMENTS TO BE SUPPLIED BY LUMA.

6-IF THIS PROJECT REQUIRES LUMA BULK POWER RATE CONTRACT, WHICH IS REQUIRED TO BE SIGNED PRIOR TO ENERGIZING THE PROJECT, THE LOCATION, EQUIPMENT AND METER TYPE TO BE USED SHALL BE COORDINATED WITH "OFICINA INREGULARIDADES EN EL CONSUMO DE ENERGIA ELECTRICA-MEDICION". SUPERVISOR AT SAN JUAN REGIONAL OFFICE.

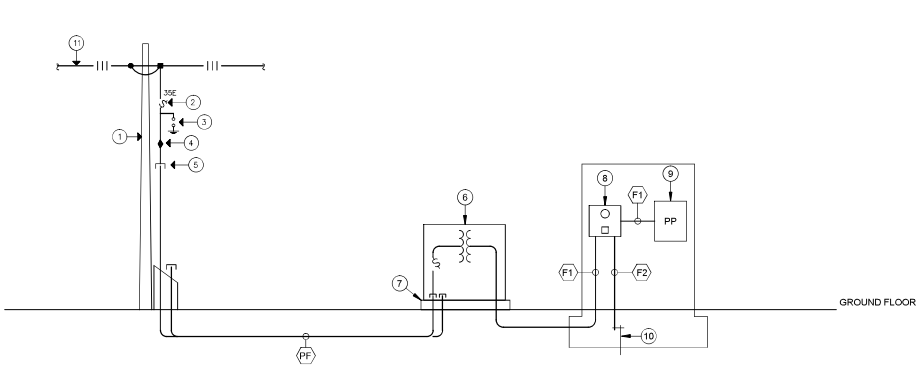


PAD MOUNTED TRANSFORMER DETAIL
N.T.S.

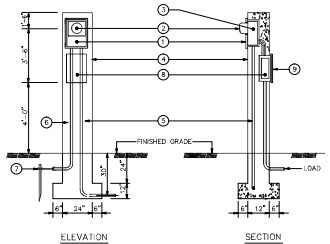




PAD MOUNTED TRANSFORMER GRD. DETAIL
N.T.S.



ONE LINE DIAGRAM
N.T.S.



CONCRETE PEDESTAL FOR A VANDAL PROOF ELECTRICAL METER INSTALLATION
N.T.S.

CONCRETE PEDESTAL – ITEMS DESCRIPTION:

1. STAINLESS STEEL DOOR 16"W x 24"HG 1/8" THICK WITH 2-HINGES AND PADLOCKING FACILITIES. DOOR SHALL BE PAINTED WITH AN ANTIRUST PAINT.
2. LEXAN GLASS OR APPROVED EQUAL.
3. ELECTRICAL METER BASE, 200A, 120/240, 1 PHASE, 3 WIRES; W/100A, 250V, 2P M.C.B.
4. STEEL REINFORCED CONCRETE PEDESTAL.
5. INCOMING FEEDER.
6. 1#6 THW WIRE (G.G.) IN 1" RIGID PVC SCHEDULE 40 CONDUIT.
7. 5/8" x 10'-0" COPPER GROUND ROD WITH A BRASS CLAMP AT 6" B.F.G.
8. LIGHTING PANEL AS PER PANEL SCHEDULE.
9. WEATHER AND VANDAL PROOF DOOR FOR PANEL ENCLOSURE PROVIDED WITH PADLOCKING FACILITIES.

EQUIPMENT SCHEDULE:

1. NEW POLE WITH NEW RISER TO DONE BY CONTRACTOR URD-1A, 4 & 5.
2. 100A, 27KV 150KVBIL OPEN FUSE CUTOUT WITH 10E FUSES.
3. 10KV OUTDOOR TYPE M.O.V. LIGHTNING ARRESTER.
4. 15KV OUTDOOR TYPE PREFABRICATED STRESS CONE.
5. SEALING FITTINGS. TYPE & SIZE AS REQUIRED.
6. PAD MOUNTED TRANSFORMER 50KVA, OISC, NON-PCB, STAINLESS STEEL CONSTRUCTION. COPPER WINDING, BIL AS PER PREPA'S STANDARDS 7,62KV-240/120V-1Ø WITH ELBOW TYPE CONNECTORS, 10KV LIGHTING ARRESTERS, 5E 15KV FUSES. LOW LOSSES CONSTRUCTION ACCORDING TO DOE & PREPA STDS. PREPA APPROVED TYPE.
7. 6" CONCRETE PAD.
8. LUMA'S COMBINATION METER SOCKET & MAIN BREAKER. 120/240V-1Ø-3W-S/N-200 AMPS. WITH ONE 200 AMPS-2P MAIN BREAKER.
9. NEW PANELBOARD 1Ø-3W-S/N-120/240V-225A M.L.O. NEMEA 4X SS, VANDALPROOF. SEE SCHEDULE.
10. 10'-0" x 5/8" COPPERWELD GROUND ROD.
11. NEW 3Ø-4W-13.2KV OVERHEAD LINE TO BE CONSTRUCTED PART OF THIS PROJECT.
12. RAINFORCED CONCRETE PEDESTAL.

FEEDER SCHEDULE:

- PF → 1#2 AWG-15KV-COPPER-TRXLPE-90C-SHIELDED & PVC JACKET & 1#2AWG RHH IN 3" PVC SCHED. 40 C. & 1-3" PVC SCHED. 40 PVC SPARE CONDUIT.
- F1 → 3#3/0 AWG & 1#6 (GD) - 2 1/2" PVC CHED. 40 C.
- F2 → 1#6 GROUND GREEN CONDUCTOR - 1"PVC SCHED 40 C.

PANEL SCHEDULE

PANEL DESCRIPTION: PP — LOCATION: METER CONCRETE PEDESTAL
VOLTS: 1Ø-3W-S/N-120/240V — AMPS: 225A M.L.O.
MOUNTING: FLUSH — I.C.: 10,000 A.I.C.
PANEL TYPE: NQOD — REMARKS: NEMA 4X S.S.

LOAD DESCRIPTION	FRAME	TRIP	CKT. NO.	CKT. NO.	TRIP	FRAME	LOAD DESCRIPTION
PLAZA POLES	QO	20	1	2	20	QO	BOLLARDS
PLAZA POLES	QO	20	3	4	20	QO	BOLLARDS
BOLLARDS	QO	20	5	6	20	QO	ACCENT LIGHTS
BOLLARDS	QO	20	7	8	20	QO	ACCENT LIGHTS
FLOOD LIGHTS	QO	20	9	10	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	11	12	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	13	14	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	15	16	20	QO	SPARE
PUMP (7.5HP)	QO	100	17	18	20	QO	SPARE
			19	20	20	QO	SPARE
PLAZA POLES	QO	20	21	22	20	QO	SPARE
PLAZA POLES	QO	20	23	24	20	QO	SPARE
SPARE	QO	20	25	26	20	QO	SPARE
SPARE	QO	20	27	28	20	QO	SPARE
SPARE	QO	20	29	30	20	QO	SPARE
SPARE	QO	20	31	32	20	QO	SPARE
SPARE	QO	20	33	34	20	QO	SPARE
SPARE	QO	20	35	36	20	QO	SPARE
SPARE	QO	20	37	38	20	QO	SPARE
SPARE	QO	20	39	40	20	QO	SPARE
SPARE	QO	20	41	42	20	QO	SPARE

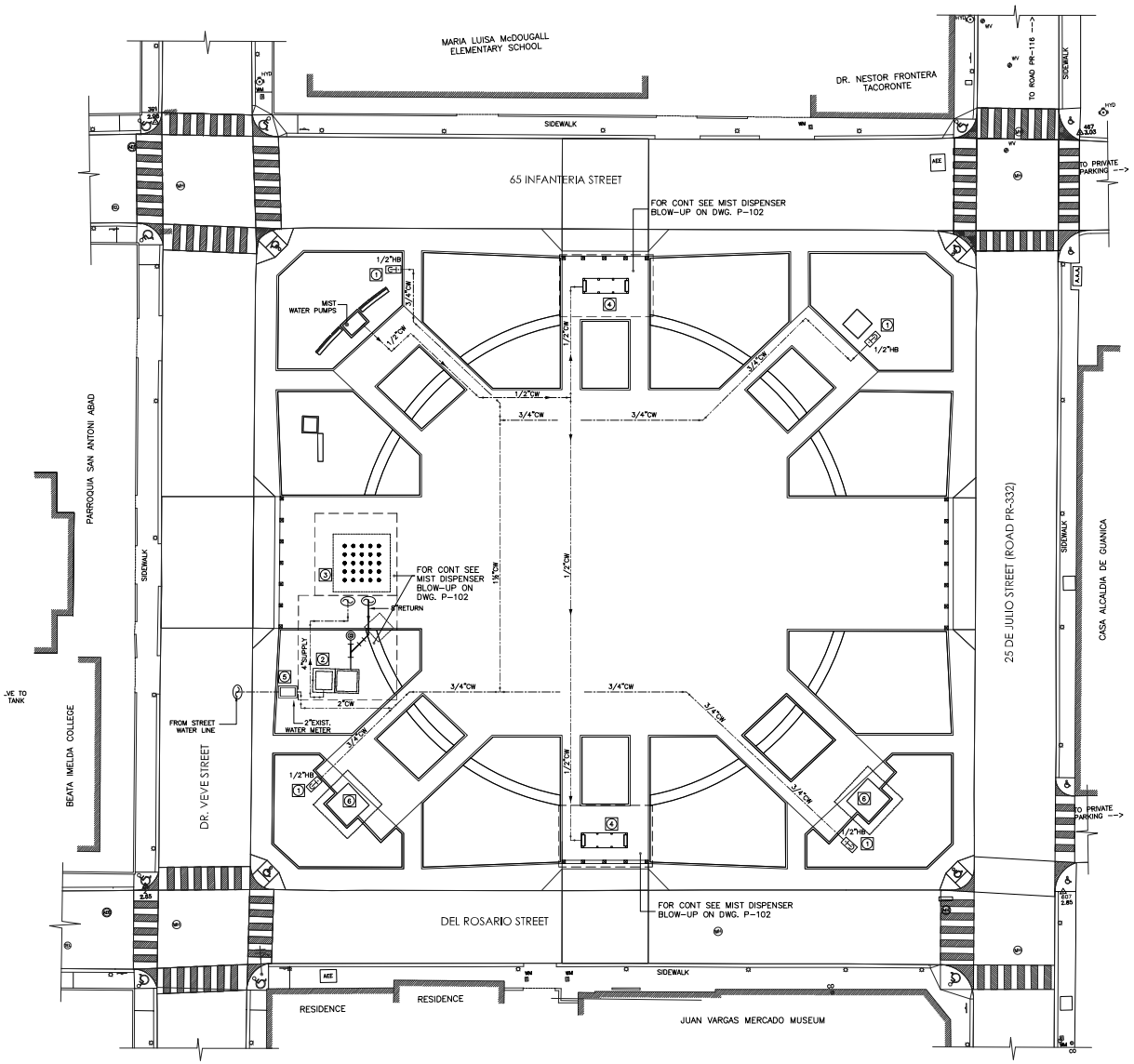
ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.465.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION CONCEPTOS DE DISEÑO TECNICO CONTENIDA AQUI ES PROPIEDAD INTELECTUAL DE TRG ARCHITECTS, CUALQUIER USO, REPRODUCCION, DISTRIBUCION O MODIFICACION SIN AUTORIZACION ESCRITA DE TRG ARCHITECTS PUERTO RICO ES PROHIBIDO Y SUJETO A LEY.

2.- EL APARATO DE CALIDAD PUEBLO NUMERO 11000 CUYO USO ES EXCLUSIVO DEL PERSONAL QUE LABORA EN ESTE TALLER Y LAS PERSONAS CONTRATADAS POR ESTE PARA LA REALIZACION DE LOS TRABAJOS QUE SE LE ENCOMIENDEN. EL USO DE ESTE APARATO CAMBIA LOS CONCEPTOS DE LOS REGLAMENTOS Y PUEBLOS DE LOS CONSTRUCCION, CUYO ALCANCE ES EL DE LA PROPIEDAD DE LOS PUEBL



WATER PLUMBING SITE PLAN

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

SITE LEGEND:

1. OUTDOOR HOSE BIBB W/LOCKSET
2. WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
3. WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
4. SATELLITE MIST DISPENSE
5. LANDSCAPE IRRIGATION SYSTEM.
6. EXISTING KIOSKO
7. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
8. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y especificaciones complementarias. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y los disposiciones aplicables de los Reglamentos Locales de Construcción de Vigencia en 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 la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la [Ley Núm. 139 de 15 de mayo de 1936, según enmendada; Ley núm. 98 de 6 de julio de 1976, según enmendada], según aplique]. Reconozco que cualquier declaración falsa o incorrecta en dichos planos y especificaciones y/o desconocimiento o negligencia de mi parte o de mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

FECHA: JULIO, 2023

ENGINEERING, PSC CONSULTING ENGINEERS

PRELIMINARY DRAWING NOT FOR BID/CONSTRUCTION

ENGINEERING, PSC CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1065 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-4795
T.787.469.0668
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:

REMODELACION PLAZA MANUEL JIMENEZ MESA

Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

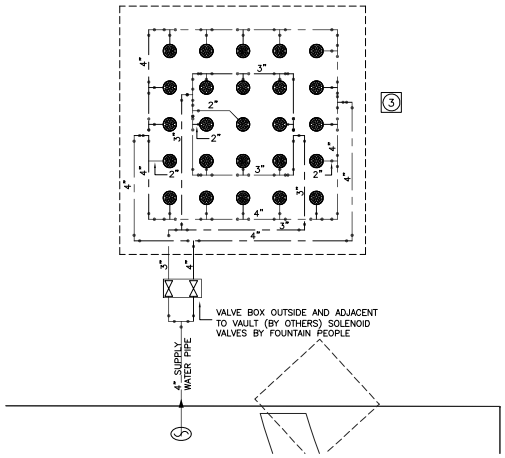
#	Fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
02	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

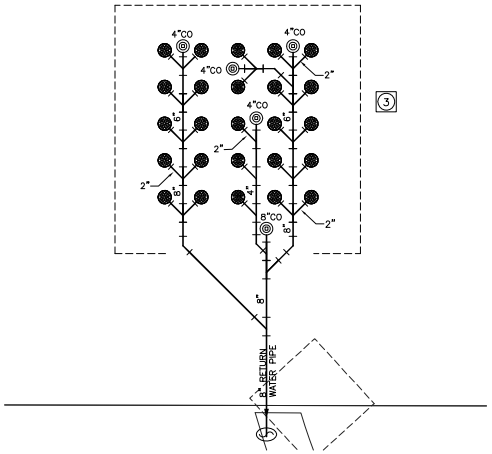
WATER PLUMBING SITE PLAN

drawn by - drawing sheet number:
checked by A. DAJER
file 2226 ARS
plot scale 1=1
trg num 22200

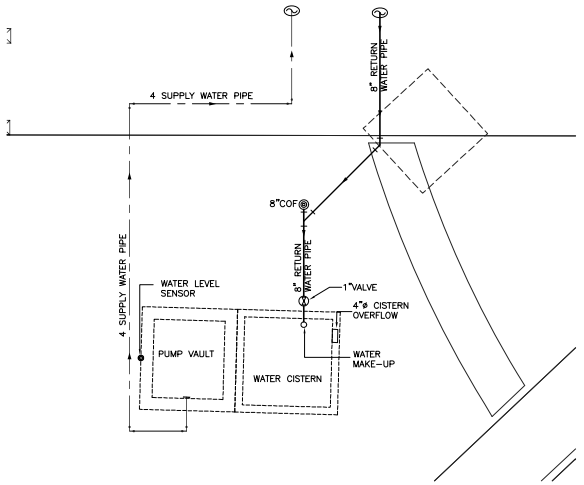
P-101



WALKOVER SUPPLY WATER
WATER FOUNTAIN BLOW-UP
SCALE: 1/4"=1'-0"



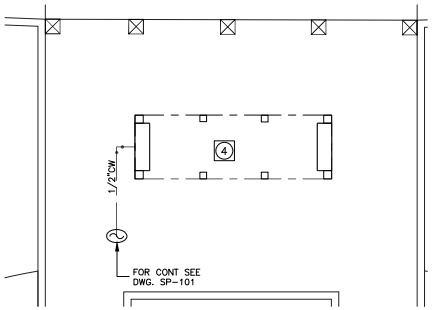
WALKOVER RETURN WATER
FOUNTAIN BLOW-UP
SCALE: 1/4"=1'-0"



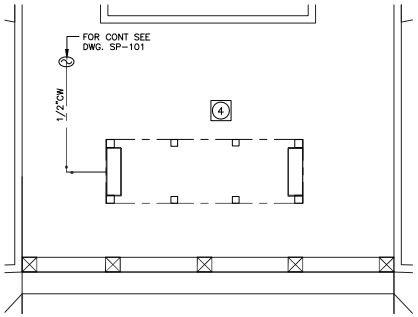
WALKOVER WATER FOUNTAIN
PUMP VALVES & WATER TANK BLOW-UP
SCALE: 1/4"=1'-0"

LEGEND:

1. OUTDOOR HOSE BIBB W/LOCKSET
2. WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
3. WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
4. SATELLITE MIST DISPENSE
5. LANDSCAPE IRRIGATION SYSTEM.
6. EXISTING KIOSKO



MIST DISPENSER BLOW-UP
SCALE: 1/4"=1'-0"



MIST DISPENSER BLOW-UP
SCALE: 1/4"=1'-0"

WATER FOUNTAIN EQUIPMENT
EQUAL OR SIMILAR TO FOUNTAIN PEOPLE

EQUIPMENT	DESCRIPTION
PUMP VAULT	MODEL DBVB-SERIES. PREFABRICATED UNDERGROUND ENCLOSURE FOR PUMPS, FILTRATION AND ELECTRICAL CONTROLS. CONTAINING A SELF-PRIMING FILTER PUMP WITH INTEGRATED STRAINER BASKET; SAND FILTER UNIT DISPLAY PUMP; WATER FILL STATION ASSEMBLY (IF APPLICABLE), CHECK VALVE(S) OR COMBINATION FLOW METER/CHECK VALVE OPTION, 6" VENT CONNECTIONS WITH VENTILATION FAN; INTEGRAL SUMP WELL AND AVAILABLE 2" GRAVITY DRAIN CONNECTION; AUTOMATIC SUBMERSIBLE PUMP; U.L. 508 LISTED CONTROL PANEL. (NEMA 4) INCLUDES MAIN DISCONNECT SWITCH; PUMP MOTOR STARTER WITH CIRCUIT BREAKER (SINGLE PHASE APPLICATION), MOTOR STARTER WITH ADJUSTABLE, SOLID-STATE MOTOR PROTECTOR (THREE PHASE APPLICATIONS). 24/7 TWO-CHANNEL PROGRAMMABLE TIME CLOCK FOR PUMP AND (LIGHTS IF APPLICABLE). NOTE GFCI BARKERS AND WATER LEVEL/LOW LEVEL CUTOFF CONTROL CIRCUITRY INCLUDED.
WATER FOUNTAIN NOZZLE	FIAC-1000 SERIES FOUNTAIN-IN-A-CAN, A "POUR IN PLACE"FLUSH MOUNT SPRAY EFFECT WITH 360 DEGREE LIGHT FIXTURE. THE ASSEMBLY INCLUDES A STAINLESS STEEL HOUSING WITH 1/4" THICK STAINLESS STEEL DRAIN COVER AND CONTAINS (1) INTERCHANGEABLE FOUNTAIN NOZZLE. 2" INLET CONNECTION, 2" DRAIN CONNECTION.
WATER LEVEL PROBE	MODEL WLS-CG-3 SERIES, POLYPROPYLENE HEAD CONSTRUCTION, 3 OR 5 PROBE ELECTRICAL CONNECTIONS, ELECTRODE ARE STAINLESS STEEL PIPE THREAD 1½". CABLE CONNECTION SCREW TERMINALS.
CISTERN WATER FLOW	FWD-300B BRONZE HOUSING WITH AN INTEGRAL WATERSTOP FLANGE AND A LARGE FULL-FACE REMOVABLE STRAINER GRILL. THE HOUSING INCLUDES A FEMALE THREADED CONNECTION AND A PERMANENTLY AFFIXED BONDING LUG. CONSTRUCTION IS CAST BONZE AND BRASS WITH A NATURAL FINISH.
TOUCH ACTIVATOR (FOR AND MIST SYSTEM)	WATER ODYSSEY – MODEL TOUCH N' GO BOLLARD
MIST SYSTEM PRE-FABRICATED PUMP AND FILTER STATION	ADVANCE MISTING SYSTEM DIRECT DRIVE MISTING ENCLOSED 1.5 HP HIGH PRESSURE PUMP STATION WITH FILTER. ADDITIONAL ACCESSORIES, SCALE X FILTER, AND LOW PRESSURE SWITCH. TUBING FROM PUMP TO NOZZLE MANIFOLDS TO BE 1000 PSI RATED HIGH PRESSURE NYLON.

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y 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 de Construcción y Usos 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 la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para inversión por la Industria Puertorriqueña"y con la [Ley Núm. 139 de 13 de mayo de 1936, según enmendada; Ley núm. 96 de 6 de julio de 1978, según enmendada], según aplique]. Reconozco que cualquier declaración falsa o incorrecta en este documento o en el proceso de desarrollo/diseño o permisología provisional, por mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

FECHA: JULIO, 2023

ENGINEERING, PSC
CONSULTING ENGINEERS
PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

ENGINEERING, PSC
CONSULTING ENGINEERS
L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-0747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-4795
1.787.469.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	Fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
01.1	11.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING
BLOW-UPS

drawn by – drawing sheet number:
checked by A. DAJER
file: 22260 A001
plot scale 1=1
trg num: 22260

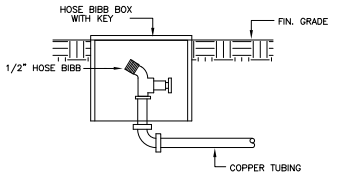
P-102

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE INTERNATIONAL PLUMBING CODE (2018 EDITION PUERTO RICO AQUEDUCTS AND SEWER AUTHORITY (PRASA)) AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
2. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY, TO COMPLY WITH CODES REQUIREMENTS OR AS SHOWN ON THESE DRAWINGS.
3. ALL HORIZONTAL PORTIONS OF SOIL WASTE STACKS & BRANCHES SHALL SLOPE 1/8" PER FEET, EXCEPT FOR SIZES 3" & SMALLER THAT SHALL BE 1/4" PER FEET.
4. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".
5. THE CONTRACTOR SHALL FURNISH AND SET IN PLACE BEFORE CONCRETE POURING ALL NECESSARY SLEEVES FOR WASTE OR SOIL, COLD OR HOT WATER LINES. THESE SLEEVES SHALL BE AS PER THE SPECIFICATIONS.
6. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY OTHER CONTRACTORS.
7. FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
8. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER, SOLDER JOINTS.
9. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
10. ALL DRAINS TO BE CAST IRON UNDER AND ABOVE FLOOR SLABS AND VENTILATION LINES AT WALLS.
11. THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
12. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
13. BIDDERS SHALL VISIT THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK. WHICH WILL BE THE ONLY OPPORTUNITY FOR POTENTIAL CONTRACTOR TO SEE THE SITE. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE CONTRACTING OFFICER.
14. CONTRACTOR SHALL DISPOSE OF THE REMOVED ITEMS SELECTED BY OWNER FOR DISPOSAL, AND SHALL STORE THE ITEMS SELECTED FOR SALVAGE IN THE PLACE INDICATED BY OWNER. DISPOSAL SHALL BE PERFORMAMED IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.
15. THE CONTRACTOR SHALL USE MATERIALS FOR CUTTING AND PATCHING THAT ARE IDENTICAL TO EXISTING MATERIALS. BEFORE CUTTING, EXAMINE THE SURFACES TO BE CUT AND PATCHED AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. IF UNSAFE OR OTHERWISE UNSATISFACTORY CONDITIONS ARE ENCOUNTERED, TAKE CORRECTIVE ACTION BEFORE PROCEEDING WITH THE WORK. CUT THE WORK USING SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. CUT THROUGH CONCRETE USING CUTTING MACHINE SUCH AS A CARBOURUNDUM SAW OR CORE DRILL TO INSURED NEAT HOLE. RESTORE EXPOSED FINISHED OF PATCHED AREAS AND, WHERE NECESSARY, EXTEND FINISH RESTORATION INTO RETAINED ADJOINING AND REFINISHING. WHERE PATCHED OCCURS IN A SMOOTH PAINT SURFACES, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING PATCH, AFTER PATCHED ARE HAS RECEIVED PRIME AND BASE COAT.
16. CONTRACTOR SHALL CONSULT THE OWNER AS TO WORKING SPACE AND AREA FOR THE LOCATION OF STORING SHACK OR TRAILER. STORAGE SPACE IN LIMITED AND POSSIBLE NONE EXISTANT. CONTRACTOR SHALL PROVIDE A TRAILER
17. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
18. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
19. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED.
20. WITH RESPECT TO THE EQUIPMENT AND PIPING, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS. NO ALLOWANCES SHALL BE GRANTED BECAUSE OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON DRAWINGS. THE MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
21. CONTRACTOR SHALL VERIFY ON FIELD THE EXISTING COLD WATER AND SANITARY FACILITIES PRIOR TO START THE WORK.
22. CONTRACTOR SHALL INSTALL A GATE VALVE IN EACH COLD WATER LINE BEFORE ENTER TO THE BUILDING TO ISOLATE THE THAT AREA FROM THE OTHERS.

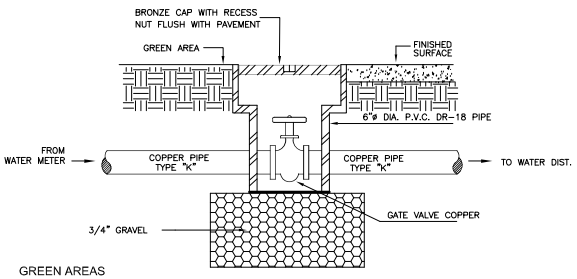
PIPING MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL
COLD WATER – ABOVE GROUND	COPPER TYPE L
COLD WATER – UNDER GROUND	COPPER TYPE K
HOT WATER – ABOVE GROUND	COPPER TYPE L
HOT WATER – UNDER GROUND	COPPER TYPE K
SANITARY – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
SANITARY – UNDER GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – UNDER GROUND	DWV SCH. 40 – ASTM D 2662



HOSE BIBB WITH BOX DETAIL

NOT TO SCALE



GREEN AREAS
GATE VALVE WITH BOX DETAIL

NOT TO SCALE

PLUMBING LEGEND:

- CW — COPPER COLD WATER LINE – DIAMETER AS INDICATED
- 90° PLUMBING COPPER (WELDED) ELBOW
- 90° PLUMBING COPPER (WELDED) ELBOW TURNED DOWN
- SHUT OFF VALVE.
- HOSE BIBB–DIAMETER AS INDICATED
- SANITARY LINE–DIAMETER AS INDICATED
- SANITARY VENT LINE–DIAMETER AS INDICATED
- 45° LONG TURN ELL–DIAMETER AS INDICATED.
- 45° SINGLE "Y"–DIAMETER AS INDICATED.
- 45° WYE BRANCH WITH SIDE INLET FOR VENT. –DIAMETER AS INDICATED.
- CLEANOUT FLUSH WITH WALL (COW) AT 12" ABOVE FINISH FLOOR – DIAMETER AS INDICATED.
- CLEANOUT FLUSH WITH PLUG (COP) AND CONCRETE BLOCK. DIAMETER AS INDICATED
- FD — FLOOR DRAIN (FD) WITH TRAP SEE DETAIL ON DWG. DIAMETER AS INDICATED.
- POINT OF CONNECTION (TIE–IN)–NUMBER INDICATES NUMBER OF CONNECTIONS.
- P–1 — INDICATES PLUMBING FIXTURE DESIGNATION –SEE PLUMBING FIXTURES SCHEDULE

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y especificaciones complementarios. También, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos Locales de Construcción y Usos 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 la disputa en la Ley 14–2004, según enmendada, conocida como la "Ley para Incentivar por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1936, según enmendada; Ley núm. 98 de 6 de julio de 1976, según enmendadas, según aplique). Reconozco que cualquier declaración falsa o incorrecta en dichos planos y especificaciones podría resultar en la desacreditación o pérdida de la licencia profesional, así como, en multas o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

FECHA: JULIO, 2023

PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

ENGINEERING, PSC
CONSULTING ENGINEERS
L.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-0747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
Postal Office Box 9032785
San Juan, Puerto Rico 00902-4795
1.787.469.5688
trg@trgarchitects.com

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821–2777

#	fecha	descripcion	por
01	07.25.22	Desarrollo Diseno Esquematico	ER
02	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING NOTES, SCHEDULE & DETAILS

drawn by – drawing sheet number:
checked by A. DAJER
file: 22060.ARS
plot scale 1=1
trg num 22060

P–201

GOVERNMENT OF PUERTO RICO
PUERTO RICO PLANNING BOARD

November 20, 2024

RESOLUTION JP-2024-004
First Amendment

Federal Consistency Certification with the
Puerto Rico Coastal Zone Management Program
Community Development Block Grant – Disaster Recovery (CDBG-DR) and
Community Development Block Grant – Mitigation (CDBG-MIT)

The United States (U.S.) Government, through Major Disaster Declarations (DR-4336 and DR-4339), declared Puerto Rico a disaster area after the devastation caused by Hurricanes Irma and María. Considering this event, the U.S. Congress approved Community Development Block Grant – Disaster Recovery (CDBG-DR) funds for Puerto Rico's unmet disaster recovery needs, and Mitigation (CDBG-MIT) funds for the Commonwealth's long-term planning and risk mitigation activities. Moreover, the Congress approved additional CDBG-DR funds for the Commonwealth in response to Major Disaster Declarations: DR-4336, DR-4339, DR-4473, and DR-4671.

The damage caused by high-speed winds, storm surges, earthquakes, flooding, and landslides attributed to major disasters, had devastating effects on Puerto Rico's coastal areas that need to be addressed in an expeditious manner. While many of the direct emergency needs have been met, disaster recovery and mitigation need of the Commonwealth are on-going and will continue into the near future.

The Law Number 75 of June 24, 1975, as amended (Organic law of the Puerto Rico Planning Board) grants the Puerto Rico Planning Board (PRPB) the responsibility and powers to guide the comprehensive development of Puerto Rico, guaranteeing the general well-being of its current and future inhabitants.

The Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq) establishes that federal agency activities including the award of Federal Assistance must be consistent to the maximum extent practicable with the enforceable policies of approved state management programs. The Puerto Rico Planning Board (PRPB) is the designated state agency to review and determine Federal Consistency with the PR Coastal Zone Management Program according to stablished procedures at 15 CFR Part 930.

The Commonwealth of Puerto Rico is formally the Grantee for the CDBG-DR and CDBG-MIT funds. The Governor of Puerto Rico designated the Puerto Rico Department of Housing (PRDOH) as the grantee for the purposes of administering these funds and executing grant agreements with the U.S. Department of Housing and Urban Development (HUD), the federal oversight agency for the CDBG-DR and CDBG-MIT funding.

Taking into consideration the high volume of requests for federal assistance that has been generated as part of the recovery process following the disaster declarations and the current need to expedite this process, the PRPB proceeded to carry out a review of Federal Consistency with the PMZCPR for the following federal assistance programs:

- CDBG-DR eligible activities provided in Section 105(a) of the Housing and Community Development Act of 1974 (HCDA), and outlined in the applicable Federal Register Notices, the CDBG-DR Action Plan and CDBG-DR Program Guidelines.
- CDBG-MIT eligible activities provided in Section 105(a) of the Housing and Community Development Act of 1974 (HCDA), and outlined in the applicable Federal Notices, the CDBG-MIT Action Plan and CDBG-MIT Program Guidelines.

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

After considering the information provided by PRDOH in relation to the eligible projects and activities to be awarded by the above-mentioned programs, the PR Planning Board (PRPB) in their meeting held on July 24, 2024, agreed the following:

A. The following activities or projects to be financed under the CDBG-DR and CDBG-MIT programs have no significant impact on Puerto Coastal Resources and do not require Federal Consistency review:

1. Activities to be financed under the following subprograms:

   a. **Community Energy and Water Resilience Installations Program (CEWRI):** The Program provide single-family homeowners energy and water efficiency improvements to promote resilience by installing PV systems with battery backup for critical loads and water storage systems.

   b. **The Workforce Training Program (WFT):** supports entities throughout the Island to offer training in job skills related to the reconstruction and economic growth of Puerto Rico. Also, those skills necessary to situate the Island in the economy of the future.

   c. **Small Business Financing Program (SBF):** will provide a Recovery Grants phase (grants awards of up to $150,000) for working capital and movable equipment for small businesses and microenterprises that suffered physical and/or financial losses due to the Hurricanes. Start-ups created after the Hurricanes are also eligible if they can show their creation was the result of a closure of a previous business of same owner(s), after damages caused by the Hurricanes.

   d. **Re-grow PR Urban-Rural Agriculture Program:** Develop, Increase and improve agricultural capacity and addresses the needs created by Hurricanes Irma and María with a substantial investment of CDBG-DR funds for a wide variety of viable and sustainable agricultural activities.

2. Projects or activities that are exempt from construction permits according to Act 161-2009, as amended, known as the "Puerto Rico Permit Process Reform Act" and the "Joint Regulation for Evaluation and Expedition of Permits Related to Development, Land Use and Business Operation" (Regulation Number 9473).

B. Federal assistance awarded under the CDBG-DR and CDBG-MIT programs for demolition of structures with the purpose of restoring green areas, beaches, water retention areas and habitat recovery is consistent with the PRCZMP.

C. Federal assistance awarded under the CDBG-DR and CDBG-MIT programs for projects that involve demolition for reconstruction, reconstruction or construction of a new structure is consistent with the PRCZMP if the project fulfills the following requirements:

1. The project must comply with land use regulations established under the PR Land Use Plan, Territorial Plans and special plans that apply according to the location of the project.

2. The structure to be constructed or reconstructed must comply with applicable regulations and parameters established in the "Joint Regulation for Evaluation and Expedition of Permits Related to Development, Land Use and Business Operation" (Regulation Number 9473).

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

3. Each project must provide evidence of compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmetal Compliance Determination emitted by OGPe.

4. The structure to be built or rehabilitated must be located outside flood risk zones according to the "Recommended Base Flood Level Maps" (FEMA Advisory Maps) effective on April 13, 2018, or the most recent FEMA map that applies according to the location of the project.

5. Structures located within a flood hazard zone must evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) by providing copy of the FEMA Elevation Certificate (form ff-206-fy22-152) completed and signed by an engineer or surveyor.

6. In the case of projects that are located within Historic Zones designated by the PR Planning Board, or if the structure was designated as a Historic Site, the project must have the endorsement of the Puerto Rican Culture Institute and the State Historic Preservation Office.

D. Federal assistance awarded under the CDBG-DR and CDBG-MIT programs for infrastructure projects (sidewalks, roads, highways, service lines, public squares) are consistent with the PRCZMP with the condition that the applicant fulfill the following requirements before the construction phase of the project:

1. Evidence compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe).

2. Evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project.

3. In the case of projects that are located within Historic Zones designated by the PR Planning Board, the project must have the endorsement of the Puerto Rican Culture Institute.

The Office of Geology and Hydrogeology (OGH) of the Puerto Rico Planning Board will provide a conditioned certification letter which will allow the applicant to have access to the funds to finance the design and permitting phase. The Puerto Rico Planning Board in its meeting of November 20, 2024 determined that the applicant must fulfill the above mentioned requirements **120 days from receipt of the OGH Conditioned Certification letter**. If the applicant needs additional time to fulfill the required documents, it must be justified and requested referring to the assigned case number trough comentariosjp.pr.gov.

E. Furthermore, The PR Planning Board on February 1, 2023, issued Resolution JP-339 that covers Federal Emergency Management Agency's (FEMA) Public Assistance Program (PA) and Hazard Mitigation Grant Program (HMGP). Therefore, federal assistance awarded through the "Infrastructure Coordination Program" to match the non-federal items that are required for projects under PA and HMGP programs **are covered by Resolution JP-339 and will not require to be submitted to the PRPB for federal consistency review.**

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

F. Hence, Projects for the reconstruction, repair, or rehabilitation of structures for water-dependent uses (piers, boat ramps etc.) **are not covered under this Resolution and must be filed at the US Army Corps of Engineers through RSS.**

This General Federal Consistency Certification will be in effect for five (5) years from the notification date of this resolution. The Certification at reference will be renewed or amended if necessary to extend its validity or address other matters.

The following parties shall be notified: **William Rodríguez**, Secretary, PR Department of Housing (PRDH); **Angel G. López Guzmán**, Permits and Environmental Compliance Division, PRDH; **Juan C. Perez Bofill,** PRDH; **Aldo A. Rivera**, PRDH; Alberto Mercado, **Jose A. Cedeño Maldonado**, US Department of Housing and Urban Development (HUD), **Donna M. Mahon**, HUD and **Magaly Massanet Rodríguez**, Director, Puerto Rico Coastal Zone Management Program, DNER.

ADOPTED in San Juan, Puerto Rico on July 24, 2024.

Amended today, November 20, 2024.

Plan. Julio Lassús Ruiz, LLM, MP, PPL
President

Ing. José Díaz Díaz, MEM, BSIE
Associate Member

Lemuel Rivera Rivera, BSEE, CAPM
Associate Member

Plan. Rebecca Rivera Torres, MPR, PPL
Alternate Member

Certify: That this Resolution is copy of the agreement adopted by Puerto Rico Planning Board in its meeting of **November 20, 2024**. I expedite and notify this copy to the parties under my sign and official stamp of the Puerto Rico Planning Board stamp, for general use and knowledge.

In San Juan, Puerto Rico, today, DEC 2 3 2024

Edgardo Vázquez
Secretary

GOBIERNO DE PUERTO RICO
JUNTA DE PLANIFICACIÓN

GOBIERNO DE PUERTO RICO

PUERTO RICO PLANNING BOARD

November 18, 2024

Eng. Julio González Fortuño
Municipality of Guánica
PO Box 785
Guánica PR 000653-0785

Federal Consistency Certification with the Puerto Rico Coastal Zone Management Program (PRCZMP)
CZ-2024-0618-183
Federal Assistance with CDBG-DR funds from the City Revitalization Program (CRP)
PR-CRP-000823
Reconstruction of Plaza Manuel Jimenez Mesa
Guánica, Puerto Rico

Dear Engineer González:

We have been evaluation the application at reference. The Puerto Rico Planning Board in its meeting of July 24, 2024 emitted a General Federal Consistency Certification with the PRCZMP under resolution JP-2024-004 for projects to be financed with Federal funds under the CBDG-DR and CDBG-MIT programs. The section D of this resolution establishes that Federal assistance awarded under CDBG-DR and CDBG-MIT programs for infrastructure projects (sidewalks, roads, highways, service lines, public squares) is consistent with the PRCZMP with the condition that the applicant fulfills the following requirements ninety (90) days before the construction phase of the project:

1. Evidence compliance with the PR Environmental Policy Law (Law number 416 of September 22, 2004) by providing copy of the Environmental Compliance Determination emitted by the PR Permit Management Office (OGPe).

2. Evidence compliance with the Special Flood Hazard Zone Regulations (Planning Regulation Number 13) when it is required depending on the nature and location of the project.

3. In the case of projects that are located within Historic Zones, submit copy of the endorsement from the endorsement of the Puerto Rican Culture Institute.

These documents must be submitted to the Office of Geology and Hydrogeology Office of the Puerto Rico Planning Board as soon as possible within a period of 120 days from this communication.

Considering this, the project at reference is consistent with the PRCZMP with the condition that the applicant complies with the above-mentioned requirements as established in Resolution JP-2024-004.

If you have any question or need assistance, do not hesitate to contact Rose A. Ortiz at (787) 723-6200 ext. 16012 or by e-mail, ortiz_r@jp.pr.gov.

Cordially,

Luis E. Lamboy Torres
Director
Office of Geology and Hydrogeology

RAO

Appendix E: Phase 1A Archaeological Study

Centro de Investigaciones Arqueológicas

Bieque APDO. 10987, CAPARRA STA. SAN JUAN, PUERTO RICO 00922

REMODELACIÓN PLAZA MANUEL JIMENEZ MESA
EVALUACION ARQUEOLÓGICA FASE 1A

CENTRO UEBANO, BARRIO PUEBLO DE GUÁNICA

OGPE#: 2022-455799-SRA-059583 - CATASTRO#: 407-085-059-01



Área del proyecto, Provista por el Arquitecto Eduardo trg architects

SOMETIDO A: **Eduardo A. Regis Martínez, Arquitecto**
TRG Architects, San Juan, Puerto Rico (PR-CRP-000797)

PREPARADO POR: Virginia Rivera Calderón, Arqueóloga

7 de junio de 2023

Tabla de Contenido

I. Introducción 9

II. Localización del Proyecto Propuesto 10

III. Alcance del Proyecto Propuesto 12

A. Descripción del Proyecto 12
B. Uso de la Propiedad/Titularidad 13
C. Descripción de la Acción Propuesta 14
D. Impacto del Proyecto 15
E. Costo del Proyecto 16

IV. Calificación y Clasificación de suelos 16
A. Clasificación vigente de la zona Urbana y de la Ensenada 16
B. Clasificación del Plan Territorial del Municipio de Guánica 19

V. Medioambiente del área de estudio Plaza Guánica 21

A. Geografía 21
B. Suelos 22
C. Hidrología 24
D. Topografía 26
E. Geología 28

VI. Apuntes sobre la Prehistoria de San Germán 30

VII. Antecedentes Históricos del Municipio de Guánica 32

A. Apuntes históricos del desarrollo del Pueblo y Plaza de Guánica 40

B. desarrollo del pueblo de Guánica a través de los cuadrángulos históricos de Guánica 47
C. Personajes ilustres 50
D. Bandera y Escudo del Municipio de Guánica 51

VIII. Investigación Documental y Reconocimiento Preliminar - FASE 1A 52

A. Oficina Estatal de Conservación Histórica (OECH/SHPO) 53

1. Estudios Arqueológicos 53

2. Sitios Arqueológicos 56

a. Registro Nacional de Lugares Históricos 61
b. Inventario de Escuelas Históricas 65
c. Inventario Histórico de Ingeniería 65
d. Inventario de Sistema Ferroviario 66
e. Inventario de Haciendas y Centrales Azucareras del Oeste 67

B. Programa de Arqueología y Etnohistoria (PAE) 67

a. Estudios Arqueológicos 67

C. Archivo General y Biblioteca Nacional de P.R. (AGPR) 83

D. Autoridad de Carreteras-Oficina de Fotogrametría 84

1. Fotografías Históricas 84

IX. Reconocimiento Preliminar de Campo 87

X. Resultados de los trabajos Fase 1A 91

XI. Conclusiones 92

XII. Recomendaciones 93

XIII. Bibliografía 94

XIV. Apéndices 99

MAPAS

Mapa -1- Mapa de la Isla de Puerto Rico señalando la localización del Municipio de Guánica y la distribución de sus barrios.

Mapa -2- Segmento del Cuadrángulo del Municipio de Guánica mostrando localización del área de estudio.

Mapa -3- Calificación del predio objeto del presente estudio.

Mapa -4- Detalle ampliado de la calificación del predio objeto del presente estudio.

Mapa -5- Mapa Geográfico de la Isla de Puerto Rico.

Mapa -6- Mapa de clasificación Suelos de la Isla de Puerto Rico.

Mapa -7- Mapa de los ríos principales de la Isla de Puerto Rico.

Mapa -8- Mapa Topográfico de la Isla de Puerto Rico.

Mapa -9- Mapa Geológico USGS de la Isla de Puerto Rico.

Mapa -10- Detalle geológico de la Isla de Puerto Rico mostrando su Sección sudoeste.

Mapa-11-Segmento cuadrángulo USGS mostrando áreas de desembarco en la Bahía de Guánica.

Mapa -12-Trazado del Pueblo en la Bahía de Guánica 1930

Mapa -13- Segmento del Cuadrángulo del Municipio de Guánica mostrando Estudios Arqueológicos realizados y reportados a OECH/SHPO. Las áreas coloreadas corresponden a las áreas evaluadas.

Mapa -14-Detalle del mapa mostrando área de estudio, recursos y estudios arqueológicos cercanos.

Mapa -15-Segmento del Cuadrángulo del Municipio de Guánica mostrando Estudios Arqueológicos realizados, según reportados a OECH/SHPO

FIGURAS

Ilustración -1- Fotografía aérea delimitando la localización del área de estudio.

Ilustración -2- Leyenda del Mapa de Clasificación de Suelos.

Ilustración -3- Imagen aérea mostrando la desembocadura del Río Loco en la Bahía de Guánica, al Oeste del área de estudio.

Ilustración -4- Leyenda correspondiente al Mapa Geológico de la Isla de Puerto Rico.

Ilustración –5- Plano elaborado por el Arql. Irving Rouse, durante sus excavaciones en el Sitio Arqueológico Abra.

Ilustración - 6- El desembarco estadounidense en Guánica, 1898.

Ilustración –7-Imagen de la Plaza de Guánica para comienzos Siglo XX.

Ilustración -8- Imagen de la Plaza de Guánica para comienzos del siglo XX.

Ilustración -9- Imagen de la Avenida 25 de Julio, lado este de la Plaza, para la primera mitad del siglo XX.

Ilustración -10- En el primero inventario fotográfico de Puerto Rico para el 1930.

Ilustración -11- Vista de la Plaza para la primera mitad del siglo XX.

Ilustración -12- Detalle de la Plaza Pública, donde se ilustra la incorporación de verjas interiores para aparentemente dividir las áreas pavimentadas de las áreas ajardinadas.

Ilustración- 13-Imagen ampliada de procesión a misa de difuntos, entrando a la Iglesia San Antonio de Padua.

Ilustración-14-Imagen de la Plaza de mediados del siglo XX.

Ilustración-15-Imagen de la Plaza en dirección hacia la Iglesia San Antonio de Padua desde la Avenida 25 de Julio, de segunda mitad del siglo XX.

Ilustración-16- Vista aérea contemporánea del centro urbano de Guánica, contrastando con el boceto de Armstrong del 1930.

Ilustración-17- Imagen aérea de la remodelación de la Plaza para el 2004, donde se eliminan los esquemas formales y de ajardinamiento del concepto original de la Plaza, optándose por un esquema radial cuyo centro y punto de partida es algún hito urbano.

Ilustración- 18- Imagen aérea de la remodelación realizada a la Plaza para el año 2016, donde se observa la dramática perdida de la arboleda y cubierta vegetativa.

Ilustración-19-Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,25000. Línea roja continua indica área de estudio. Publicado en el año 1935

Ilustración-20-Cuadrángulo Topográfico correspondiente a Guánica con escala de 1,30000. Publicado Originalmente en 1938.

Ilustración -21-Cuadrángulo Topográfico correspondiente a Guánica con escala de 1,20000. Publicado Originalmente en 1956.

Ilustración-22-Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,20000. Editado Originalmente en 1966. El mapa fue preparado con datos del recorrido del año 1935

Ilustración -23- Bandera de Guánica.

Ilustración-24- Escudo de Guánica.

Ilustración -25-GA0200008: Parroquia San Antonio Abad - GA-23: Ubicada a 14 metros Oeste de la plaza. Ubicación de la Parroquia de San Antonio Abad con respecto a la Plaza Pública. La línea azul indica la distancia en metros entre la Plaza y la Parroquia San Antonio Abad. Los puntos rojos son otros sitios arqueológicos registrados. El cuadrado naranja es la Plaza (Tomado del sistema digital de SHPO).

Ilustración -26-GA0200009: Museo de Historia y Arte- GA-24: Este sitio arqueológico se encuentra a 16 metros al sur del límite sur de la Plaza. Ubicación del Museo de Arte e Historia de Guánica con respecto a la plaza recreativa de Guánica. La línea azul indica la distancia en metros entre la Plaza y el Museo de Arte e Historia. Los puntos rojos son otros sitios arqueológicos registrados. El cuadrado naranja es la Plaza. (Tomado del Sistema digital de SHPO).

Ilustración -27-GA0200010: James Garfield School-GA-25: Ubicado a 20 metros Norte de la Plaza. Ubicación de la Escuela James Garfield con respecto a la Plaza Pública. La línea azul indica la distancia en metros entre la Plaza y la Escuela James Garfield. Los puntos rojos son sitios arqueológicos registrados. El cuadrado naranja es la Plaza. (Tomado del Sistema digital de SHPO).

Ilustración -28-Imagen aérea donde se observa la zona urbana y Plaza de Guánica, mostrando el perímetro de 500 metros utilizado para trabajar nuestra investigación. (Tomado del sistema digital de ICP).

Ilustración-29- Imagen aérea mostrando la distancia desde la esquina noreste hasta la Escuela Superior Urbana (298.10 metros). Coordenadas: 17°58'21.35" N 66°54'27.13" W (Tomado de sistema digital de ICP).

Imagen aérea de Guánica, mostrando la distancia desde la esquina noreste hasta el Parque de Bombas.

Ilustración -29- Imagen aérea de Guánica, mostrando la distancia desde la esquina noroeste hasta el Ensanche de la PR-116.

Ilustración-30- Imagen aérea de Guánica, mostrando la distancia desde la esquina sureste hasta el Nuevo Centro de Gobierno (11.1 metros).

Ilustración-31- Imagen aérea del área de estudio, mostrando la distancia desde la esquina noreste hasta el Parque De Bombas, Carretera P.R. 333 (358.53 metros). Coordenadas: 17°58'21.35" N 66°54'27.13" W (Tomado de sistema digital de ICP).

Ilustración -32- Sección del cuadrángulo de Guánica/ICP mostrando la distancia desde la esquina noroeste hasta el **Ensanche de la P.R. 116 (491.37 metros**). Coordenadas: 17°58'21.56" N 66°54'29.22" W (Tomado de sistema digital de ICP).

Ilustración -33- Croquis El Puerto de Guánica, en Puerto Rico del año 1821 creado por Augusto Plée. (AGPR).

FOTOGRAFÍAS

Fotografía -1,2 y 3- Corroboración de usos de espacios mediante fotos tomada durante la prospección de campo.

Fotografía -4, 5, 6 y 7- Vistas de las calles a los costados de la Plaza de Guánica.

Fotografía -8- Vista de un amplio segmento de Guánica y su Bahía.

Fotografía -9- Faro de Guánica.

Fotografía-10- Escuela James Garfield.

Fotografía -11 y 12- Hacienda Santa Rita.

Fotografía -13- Campo de Batalla Militar de Yauco.

Fotografía -14-Imagen aérea tomada en 1936 mostrando el área de estudio.

Fotografía -15-Imagen aérea tomada en 1950 mostrando el área de estudio.

Fotografía -16-Imagen aérea tomada en 1963 mostrando el área de estudio.

Fotografía -17-Imagen aérea tomada enero 1977 mostrando el área de estudio.

Fotografía -18 y 19- Escultoras existentes en la Plaza.

Fotografía -20, 21, 22, 23, 24 y 25- Vistas del interior de la Plaza de Guánica.

Fotografía -26, 27 y 28-Kiosko y fuente de la Plaza de Guánica.

Fotografía -29, **30 y 31**- Estructuras existentes hacia los cuadrantes de la Plaza de Guánica.

TABLAS

Tabla -1- Trabajos a realizarse en la Plaza Manuel Jiménez Mesa de Guánica

Tabla -2- Nuevos distritos de Calificación.

Tabla -3- Clasificación de los suelos del Municipio de San German

Tabla – 4- Listado de las Investigaciones arqueológicas consultadas en SHPO.

Tabla -5- Listado de las Investigaciones arqueológicas consultadas en ICP.

Tabla -6- Listado de sitios arqueológicos documentos en la ICP y SHPO.

ANEXOS

Anexo - I - Carta Recomendación Ambiental OGPe

Anexo -II - Memorial Explicativo

Anexo -III - Planos de la Plaza

I. Introducción

Según las disposiciones de la Ley 112 relacionada con la Protección del Patrimonio Arqueológico Terrestre, firmada el 20 de julio del 1988 (en lo sucesivo "Ley 112"), se requiere que las agencias gubernamentales y proyectistas privados tomen en consideración los recursos culturales conocidos, o que pudiesen existir en los terrenos que serán objeto de algún tipo de desarrollo. A tales efectos, es requisito de ley llevar a cabo evaluaciones arqueológicas con miras a determinar la presencia o ausencia de recursos culturales en dicho terreno, previo a cualquier movimiento de terreno que pueda causar peligro a la integridad de los recursos culturales conocidos, o potenciales, en el área del proyecto. Se requieren los estudios Fase IA, siendo esta Fase IA (*Investigación Documental y Reconocimiento Preliminar*) la fase inicial de las investigaciones arqueológicas. La misma cumplirá con el *Reglamento para la Radicación y Evaluación Arqueológica de Proyectos de Construcción y Desarrollo,* número 8932 del 8 de febrero de 2017 (en lo sucesivo "el Reglamento del ICP")

El Municipio de Guánica, a través de su Honorable alcalde Ismael (Titi) Rodríguez Ramos (en lo sucesivo "proponente"), ha propuesto desarrollar el **PROYECTO REMODELACIÓN PLAZA MANUEL JIMENEZ MESA, ubicada en el Municipio de Guánica.** El proyecto fue sometido a Oficina de Gerencia de Permisos (OGPE), como resultado de esta evaluación, se solicita llevar a cabo una Evaluación de Recursos Arqueológicos Fase 1A. **(Anexo -I- Carta Recomendación Ambiental OGPe).**

La Firma **TRG Architects,** en representación del proponente**,** ha contratado a la suscribiente, Arqueóloga Virginia Rivera Calderón (**Centro de Investigaciones Arqueológicas Bieque**), para llevar a cabo los trabajos de **Evaluación Arqueológica Fase IA**, en relación con el propuesto **PROYECTO REMODELACIÓN PLAZA MANUEL JIMENEZ MESA, ubicada en el Municipio de Guánica.** (en lo sucesivo "el proyecto propuesto" o "área de estudio"). La arqueóloga suscribiente utilizó parte del personal competente que la compone, para así realizar las labores pertinentes. Estos son: el Arqueólogo Fernando Vargas y los Arqueotécnicos Lydia Burgos Ortiz y Ramon Negrón Colón.

El Proyecto consiste en la remodelación de la Plaza Manuel Jiménez Mesa en El Municipio de Guánica. El predio donde ubica el proyecto está demarcado como una Dotacional Pública (DT-P), según la Hoja 39 del Mapa de Calificación del Municipio de Guánica. Dicho predio tiene cabida superficial de tres mil

ochocientos nueve metros cuadrados (3,809 m²). (Provisto por el proponente. **(Anexo II-Memorial Explicativo).**

II. Localización del Proyecto Propuesto: Reconstrucción de la Plaza de Guánica

El proyecto propuesto se localiza en el Municipio de **Guánica**, en la costa sudoeste de la Isla de Puerto Rico. Dicho municipio limita al Norte con el Municipio de Sabana Grande, al Sur con el Mar Caribe, al Este con el Municipio de Yauco y al Oeste con el Municipio Lajas.

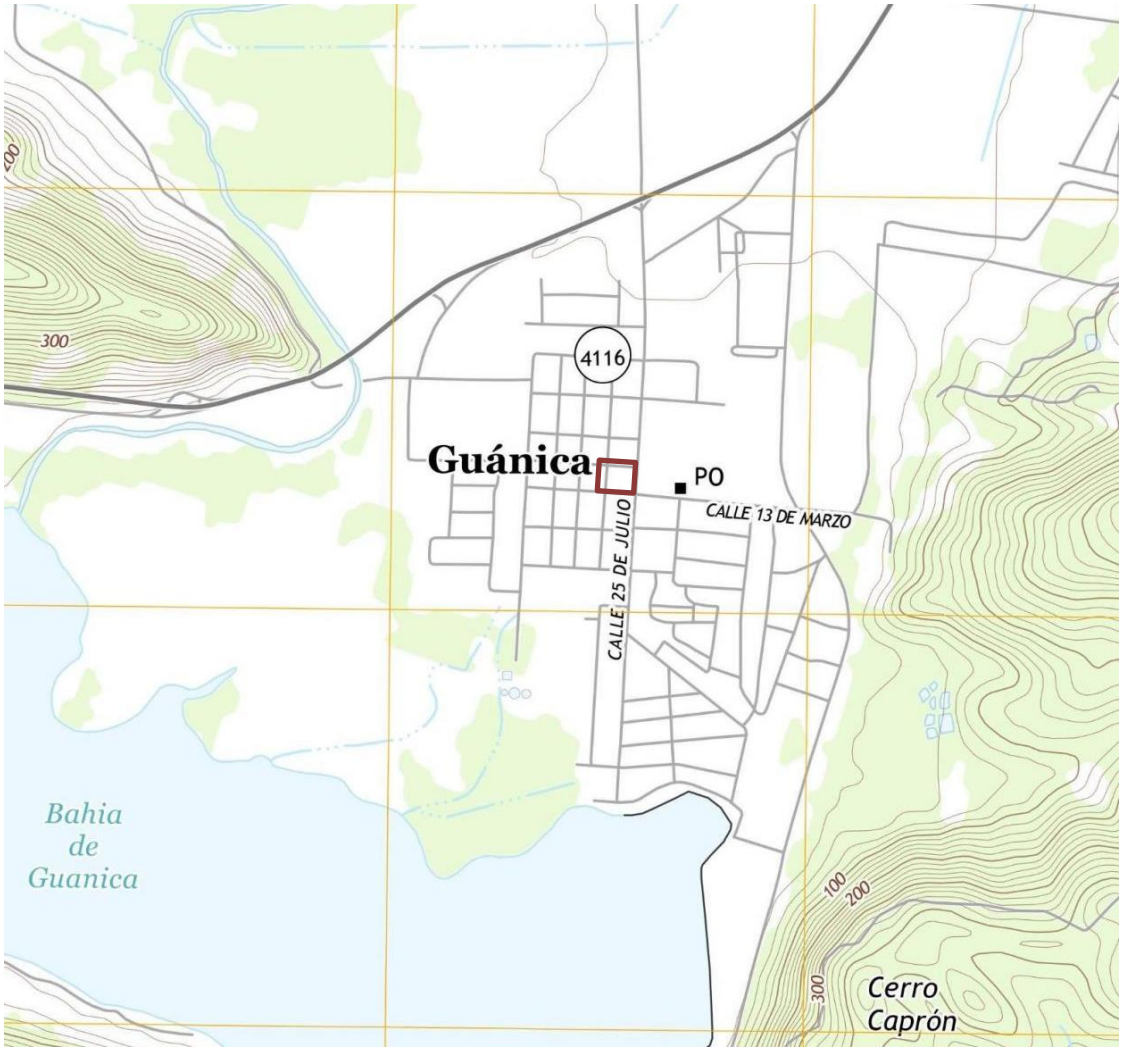
El Municipio de Guánica se divide en dos segmentos separados por la bahía de mismo nombre y terrenos al norte de dicha bahía. El Municipio abarca una extensión de 37.1 millas cuadradas (96.1 kilómetros cuadrados), según el Censo de Población y Vivienda de 2000. M



Mapa -1- Mapas, de la Isla de Puerto Rico (a la izquierda) y del Municipio de Guánica (a la derecha), identificando con el polígono color blanco El Barrio Pueblo. El Mapa del Municipio de Guánica demuestra su distribución geográfica en siete (7) barrios. Hacia el sur del Barrio Pueblo se identifica con flecha de color rojo (Id).

Guánica corresponde a la sección occidental de la región geográfica denominada llano costero del Sur. En los valles de esta sección abundan los terrenos aluviales, muy propios para la agricultura, aunque por tratarse de un clima sumamente seco, ésta se ha desarrollado mediante sistemas de regadío.

El predio en el que se desarrollará el proyecto propuesto lo encontramos localizado en el **Cuadrángulo Topográfico del Municipio de Guánica** (USGS-2013).



Mapa -2- Segmento del Cuadrángulo del Municipio de Guánica, mostrando la localización del "Área del Proyecto" con rectángulo de color rojo (USGS 2013).

La **dirección del proyecto propuesto** es en la Avenida Esperanza Idrach y parte de la Calle 25 de Julio del (Barrio) Pueblo del Municipio. El **número de catastro** es **407-085-059-01,** las **coordenadas del Sistema Lambert NAD83** para el área de estudio son: **X** 149737.0523, Y 215455.1267 (Lat.: 17.97238227. Lon.: -66.90786221.



Cortesía de trg architects

Ilustración -1- Fotografía aérea delimitando localización del área de estudio (identificada con línea continua color azul). (Google Earth 2023).

III. Alcance del Proyecto Propuesto

A. Descripción de la Propiedad /Titularidad

El área por intervenirse comprende una servidumbre pública de espacio urbano rodeado por servidumbres de circulación vehicular y peatonal propiedad del Gobierno Municipal de Guánica, ubicada en el Centro Urbano de dicho municipio. El proyecto de la plaza tiene un área de superficie aproximada de 40,984 pies cuadrados o 3,809 metros cuadrados, mientras que el área de superficie de sus áreas de circulación colindantes suma unos 30,980 pies cuadrados o 2,879 metros cuadrados.

La plaza es demarcada por la calle 65 de Infantería al Norte, la calle 25 de Julio (PR-332) al Este, la calle Del Rosario por el Sur y la calle Dr. Veve por el Oeste. Coordenadas Lambert en el sistema NAD 83 de la propiedad son: x: 149737.0523, y: 215455.1267. (Lat.: 17.97238227. Lon: 66.90786221).

La plaza fue reconstruida prácticamente en su totalidad para 2004 y luego en 2016, mediante ambas remodelaciones el espacio de la plaza pierde cualquier vestigio de su entorno original, que data de aproximadamente de 1920.

B. Uso de la Propiedad

La propiedad está demarcada dentro de los confines de una Dotacional Publica (DT-P) según establecido en el Mapa de Calificación de Suelos del Plan Territorial para el Municipio de Guánica, Hoja 38 con vigencia del 2 de junio de 2010. La propiedad conserva su uso original como plaza de recreo, toda nueva facilidad y amenidad ahora propuestos son afines con esos usos. Para esos propósitos, se proponen las siguientes actividades en las áreas descritas:

- Reconfigurar áreas verdes y vegetación existentes para incrementar la interacción entre el público y las áreas vegetadas, añadir más vegetación y reforestación.

- Reconfigurar áreas pavimentadas para mejor interactuar con amenidades y facilidades de infraestructura urbana existente y propuestas, incluyendo áreas para equipos de juego y ejercicio para la comunidad.

- Reemplazar equipos de fuentes convencionales por una sola fuente tipo "walkthrough".

- Reubicar y añadir mobiliario urbano al nuevo esquema de la plaza con el propósito de ofrecer más áreas de esparcimientos en áreas de sombra, incluyendo piezas/monumentos existentes para su mejor funcionamiento dentro de la nueva configuración.

- Mejorar iluminación del espacio público con tecnología moderna y más eficiente.

- Mejorar sistemas de rampas y cruces peatonales a cumplimiento de leyes y códigos vigentes.

C. Descripción de la Acción Propuesta

El Municipio de Guánica interesa la remodelación de la Plaza Juan Jiménez Mesa para actualizar su programa de infraestructura urbana a normas modernas operacionales. Conforme al nuevo programa, las áreas y usos principales se indican a continuación:

ÁREA	USO	CALLE	ÁREA (pc)
Área Central	Actividades en general		10,700
Plazoleta Este,	Recibo de visitantes	25 de Julio	2,080
Plazoleta Oeste	Nueva Fuente,	Dr. Veve	2,080
Plazoleta Norte	Nuevo pabellón vegetado,	65 de Infantería	1,160
Plazoleta Sur	Nuevo pabellón vegetado,	Del Rosario	1,160
Jardín Noreste	Esparcimiento, Monumento	25 Julio & 65 Infantería	4,950
Jardín Noroeste	Esparcimiento, Monumento	65 Infantería & Dr. Veve	4,950
Jardín Suroeste	Esparcimiento, Quiosco	Calle Dr. Veve & Del Rosario	4,950
Jardín Sureste	Esparcimiento, Quiosco	Calle Del Rosario & Dr. Veve	4,950
Acera Periferal	Circulación peatonal		4,004

Tabla -1- Trabajos a realizarse en la Plaza Manuel Jiménez Mesa.

Todas estas mejoras y reparaciones deberán cumplir con parámetros de diseño estatales y federales para espacios públicos y que están no impactan negativamente el entorno histórico/urbano ante el ICP y la Oficina Estatal de Conservación Histórica. A esos efectos, indicamos que:

a. El proyecto reconfigura áreas verdes para añadir más vegetación y reforestación.

b. Se reconfigura áreas pavimentadas para mejor interactuar con amenidades y facilidades de infraestructura urbana existente y propuestas.

c. Se reubica y añade mobiliario urbano para ofrecer más áreas de esparcimientos en áreas de sombra, incluyendo piezas/monumentos existentes para su mejor funcionamiento dentro de la nueva configuración.

d. Se mejora iluminación del espacio público con tecnología moderna y más eficiente.

e. Se mejoran rampas y cruces peatonales a cumplimiento de leyes y códigos vigentes.

f. Se respeta la forma octagonal de la plaza.

g. Se propone mobiliario cónsono con la programación de usos y ambientación propuestos. Los bancos son de material duradero, ubicados dentro del área a cubierto o parcialmente cubierto. Se utilizarán diferentes pavimentos para demarcar unas zonas con usos definidos y resultados estéticos de gran valor, en complemento al mobiliario urbano a proponerse. Igual ocurre con las luminarias de alumbrado.

h. Quioscos y esculturas existentes por permanecer en la plaza. Tarima de concreto erigida en 2016 a removerse. No se proponen conchas acústicas, tarimas o templetes en el proyecto.

i. Vegetación: Los árboles, arbustos y flores definen zonas, dentro del espacio de la plaza, por lo tanto, el tratamiento paisajista debe guardar la altura y frondosidad de los árboles en estrecha proporción entre los edificios circundantes y su altura la cual no será mayor que un edificio de cuatro (4) plantas. Se orientarán en forma tal que se obtenga un cono de sombra que proteja las áreas de descanso. Evita destrucción de prados/flores mediante sistema de setos vivos de tres (3) pies.

D. Impacto del Proyecto

Este tipo de proyecto pudiera impactar el área en la duración del Proyecto mediante posibles sedimentaciones de sistemas pluviales existentes, emisión de polvos fugitivos, interrupciones temporeras de tráfico y transito tanto vehicular como peatonal, así como la Inaccesibilidad temporera a zonas de estacionamientos a lo largo de

la servidumbre de rodaje. A esos efectos se coordinará con el Municipio de Guánica, su cuerpo de Policía Municipal y demás agencias gubernamentales con inherencia sobre el proyecto para establecer un plan de mitigación para control los polvos fugitivos & sedimentación al sistema pluvial existente, así como a un plan de coordinación de tráfico/tránsito vehicular y peatonal temporero.

E. Costo del Proyecto

El proyecto propuesto tendrá un costo preliminar de aproximadamente TRES MILLONES DE DOLARES ($3, 000,000.00) provenientes del sector público, generando alrededor de treinta (30) empleos directos durante la fase de construcción.

IV. Calificación y Clasificación de Suelos

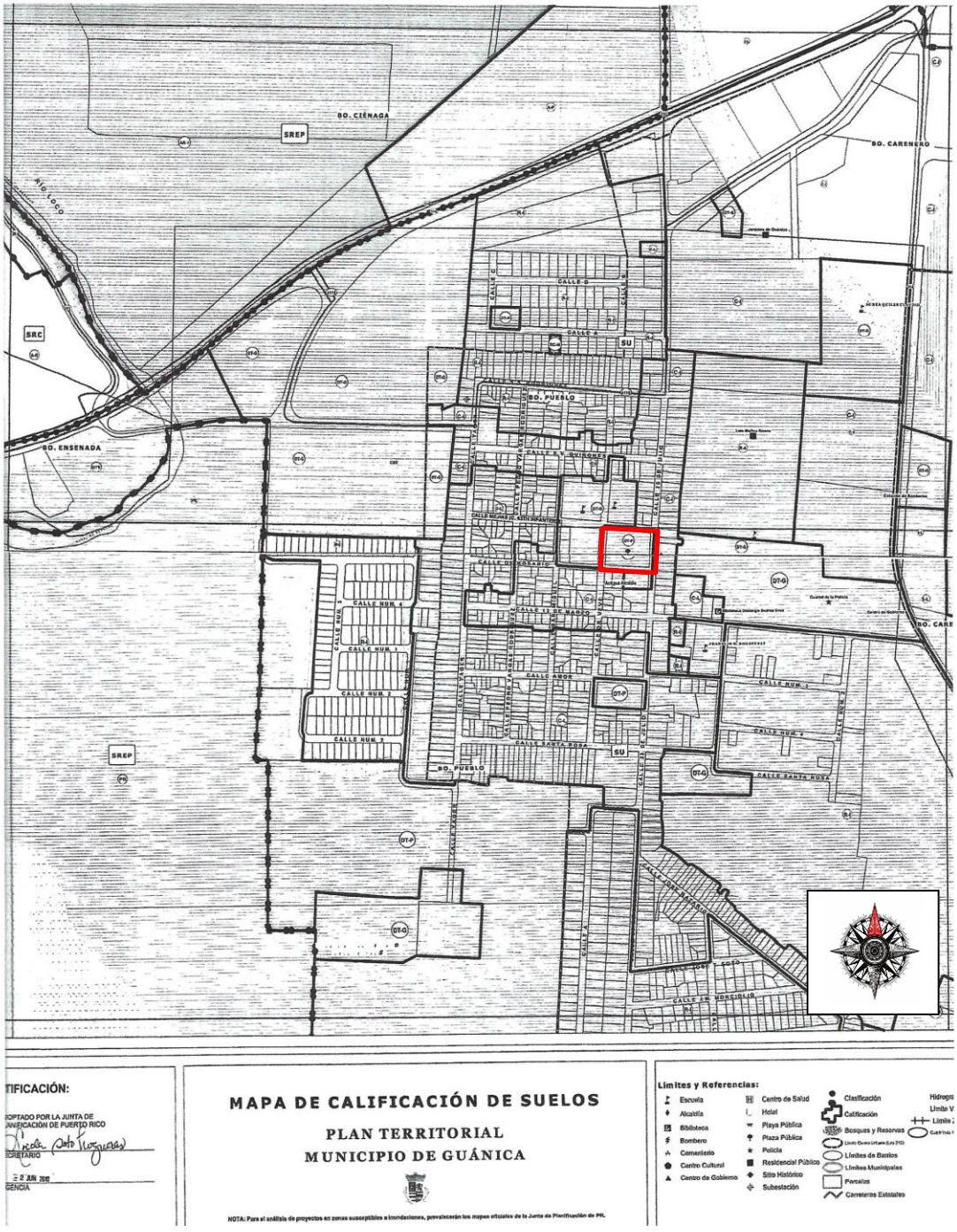
A. Calificación vigente de la zona urbana y de la ensenada

La calificación de los suelos toma como base los nuevos distritos, según propuestos por la Junta de Planificación. (Provisto por el proponente, Plan territorial de Guánica, 2010). El Plan Territorial adopta como su Reglamento de Ordenación el Reglamento de Calificación de la Junta de Planificación (Reglamento de Planificación Núm. 4) según adoptado por la Junta de Planificación. (Id.).

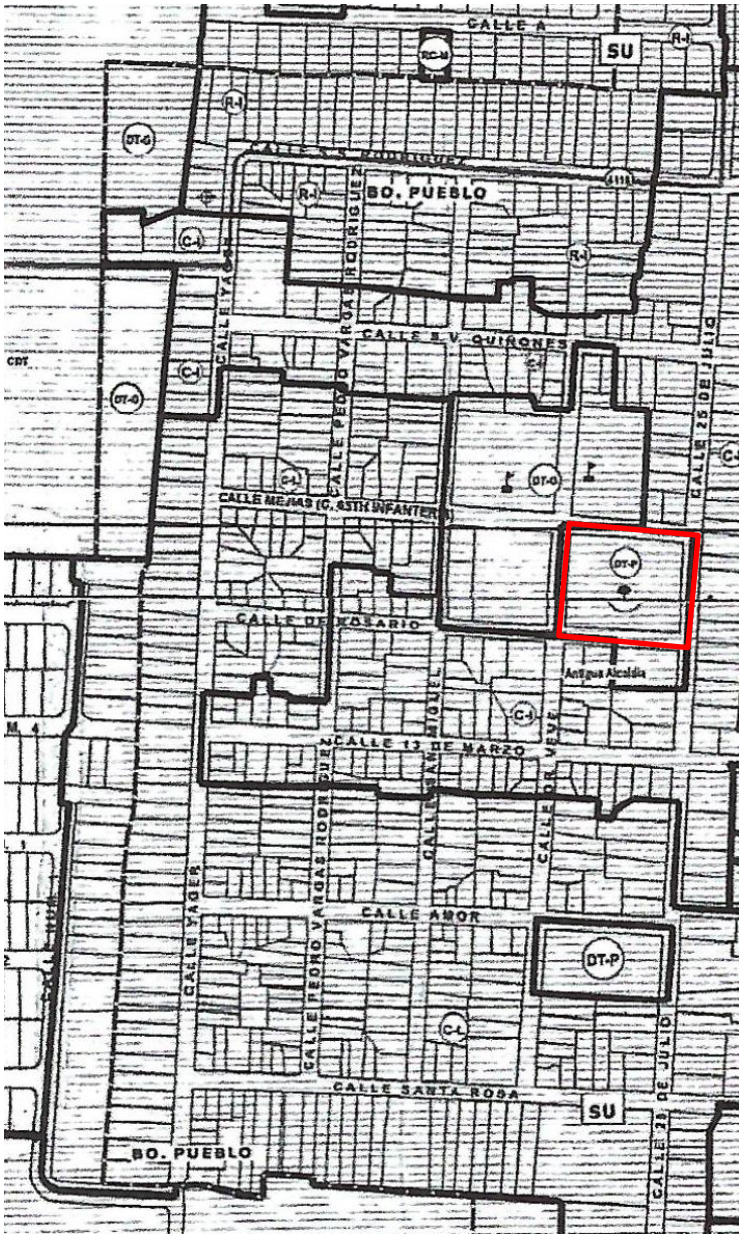
Distritos anteriores	Distritos nuevos	Descripción
R-0	UR	Terrenos urbanizables
R, 1, R-2, R-3	R-I	Residencial Intermedio
R-4, R-5	R-A	Residencial de Alta Densidad
R-6	eliminado	------
RC-1	RC-M	Residencial comercial Mixto
C0-1, C0-2, C-L, C-6	C-L	Comercial Liviano
C-1,C-2, C-3	C-I	Comercial Intermedio
C-4	C-C	Centro Comercial
C-5	RC-E	Recreación Comercial Extensa
RT-0, RT-00	Se evaluó y cambió	------
I-1, IL-1	I-L	Industrial Liviano
I-2, IL-2	I-P	Industrial Pesado
P	DT-G y DT-P	Dotacional General y Parque
M	M	A Mejorarse
RT-1, RT-2, RT-3	RT-I	Residencial Turístico Intermedio
RT-4, RT-5	RT-A	Residencial Turístico de Alta Densidad
CT-1, CT-2	CT-L	Comercial Turístico Liviano
CT-3, CT-4	CT-I	Comercial Turístico Intermedio
AD	AD	Área Desarrollada
A-1	A-P	Agrícola Productivo
A-3, A-2	A-G	Agrícola General
A-4	R-G	Rural General
B-1, B-3	B-Q	Bosque
CR-1, CR-2, CR-4	CR	Conservación de Recursos
CR-3	CR-C	Conservación de Cuencas
CR-A	CR-A	Conservación de Recursos Arqueológicos
R-6 y CR-H	SH	Sitios Históricos
DTS	DTS	Distrito Turístico Selectivo
PP	PP	Playas Públicas
PR	PR	Preservación de Recursos
RE	RE	Ruta Escénica
B-2	Dentro del PR	-----

Tabla -2- Nuevos distritos de Calificación según el Reglamento de Planificación Núm. 4, según adoptado por la Junta De Planificación-Plan Territorial de Guánica, 2010, pág. 74. (Id).

Según el Mapa de Calificación, el área del proyecto propuesto resalta las características turísticas y comerciales. (Id.)



Mapa -3-Calificación de Suelos de la Plaza de Guánica, delimitando el predio que constituye nuestra área de estudio, resaltada con línea en color rojo (Id.).



Mapa -4- Detalle ampliado del mapa anterior ("Mapa 3") respecto a la calificación del predio que constituye nuestra área estudio, (Id.).

B. Clasificación del Plan Territorial de Guánica

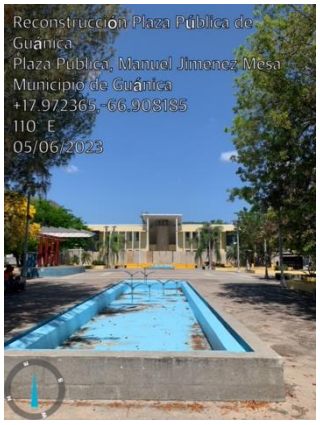
La metodología utilizada para clasificar suelos urbanos se basa en los criterios establecidos en la Ley de Municipios Autónomos, considerando los terrenos que ya están urbanizados. También, se toma en consideración la subclasificación propuesta por la Junta de Planificación para el Plan de Uso de Terrenos, Suelo Urbano Atípico Turístico (SUAT). (Id.).

En total se recomienda la clasificación como Suelo Urbano (SU) de 1,854.62 cuerdas (7.28 km2), esto representa el 7.55% de los terrenos. Dentro de la clasificación de SU se subcategorizó como SUAT (Urbano Atípico Turístico) los terrenos para Desarrollo turístico del Monte Las Pardas, que suman 178.62 cuerdas (0.7 km2) o 0.73%. (Id.).

Clasificación	KM 2	%	Cuerdas
SUELO URBANO	**7.28**	**7.55%**	**1,854.62**
Urbano (SU)	6.58	6.82%	1,676.00
Urbano Atípico Turístico (SUAT)	0.70	0.73%	178.62
SUELO URBANIZABLE	**0.33**	**0.34%**	**83.38**
Urbanizable Programado (SUP)	0.26	0.27%	66.37
Urbanizable No Programado (SUNP)	0.07	0.07%	17.01
SUELO RUSTICO	**88.84**	**92.11%**	**22,630.98**
Rustico Común (SRC)	20.45	21.20%	5,208.47
Rustico Especialmente Protegido (SREP)	68.39	70.91%	17,422.51
Total	**96.45**	**100.00%**	**24,568.98**

Tabla -3- Clasificación de los suelos del Municipio de Guánica y el área de extensión que ocupan (Fuente Plan Territorial de Guánica) (Id).

Al observar el detalle relativo al área de estudio en el Mapa de Clasificación de Suelos identificamos LA PLAZA MANUEL JIMENEZ MESA con varias clasificaciones entre ellas SU (Suelo Urbano), Comercial Intermedio (CI), Comercial Liviano (CL), Dotacional Parque (DT-P) Dotacional General (DT-G), Residencial Intermedio (RI) y Residencial Mixto (RM). Estos tipos de suelos están presentes en el área bajo estudio. Dichas clasificaciones se corroboran al observar la Fotografías 1 y 2.







Fotografía -1, 2 y 3- Corroboración de los usos, mediante fotos tomada durante la prospección de campo (mayo 2023).

V. Medioambiente del área de estudio (Plaza de Guánica)

A. Geografía

El Municipio de Guánica se encuentra situado en la costa sudoeste de la Isla de Puerto Rico. Su territorio se divide en dos segmentos separados por la bahía del mismo nombre y los terrenos al Norte de esta. El Municipio abarca una extensión territorial de treinta y siete puntos uno (37.1) millas cuadradas, (equivalente a 96.1 kilómetros cuadrados). (Censo de Población y Vivienda de 2000).

Limita al Norte con la municipalidad de Sabana Grande, al Este con el Municipio de Yauco, al Sur con el Mar Caribe y al Oeste con el Municipio de Lajas. (Plan Territorial de Guánica, 2010).

Sus tierras están distribuidas en ocho (8) barrios, conocidos como; Arena, Caño, Carenero, Ciénaga, Ensenada, Montalva, Susúa Baja y (Barrio) Pueblo. (Id).

El Municipio de Guánica corresponde a la sección occidental de la región geográfica denominada **Llano Costero del Sur.** En los valles de esta sección abundan los terrenos aluviales, muy propios para la agricultura, aunque por tratarse de un clima sumamente seco, ésta se ha desarrollado mediante sistemas de regadío. (Id).



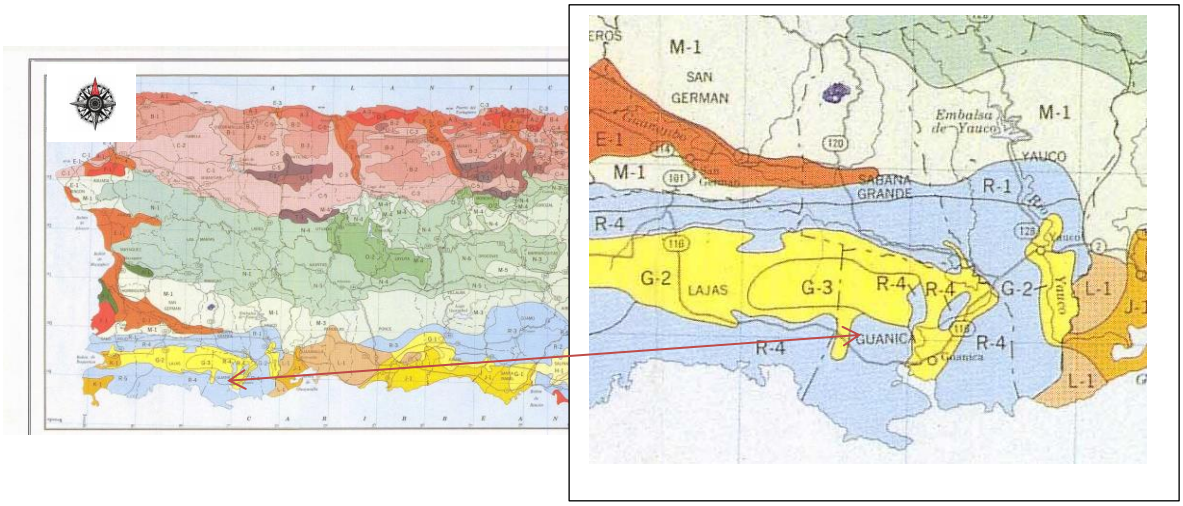
Mapa-5-Mapa Geográfico de la Isla de Puerto Rico, mostrando áreas geográficas y el área de estudio con flecha roja. (*http://gis.otg.gobierno.pr*).

B. Suelos

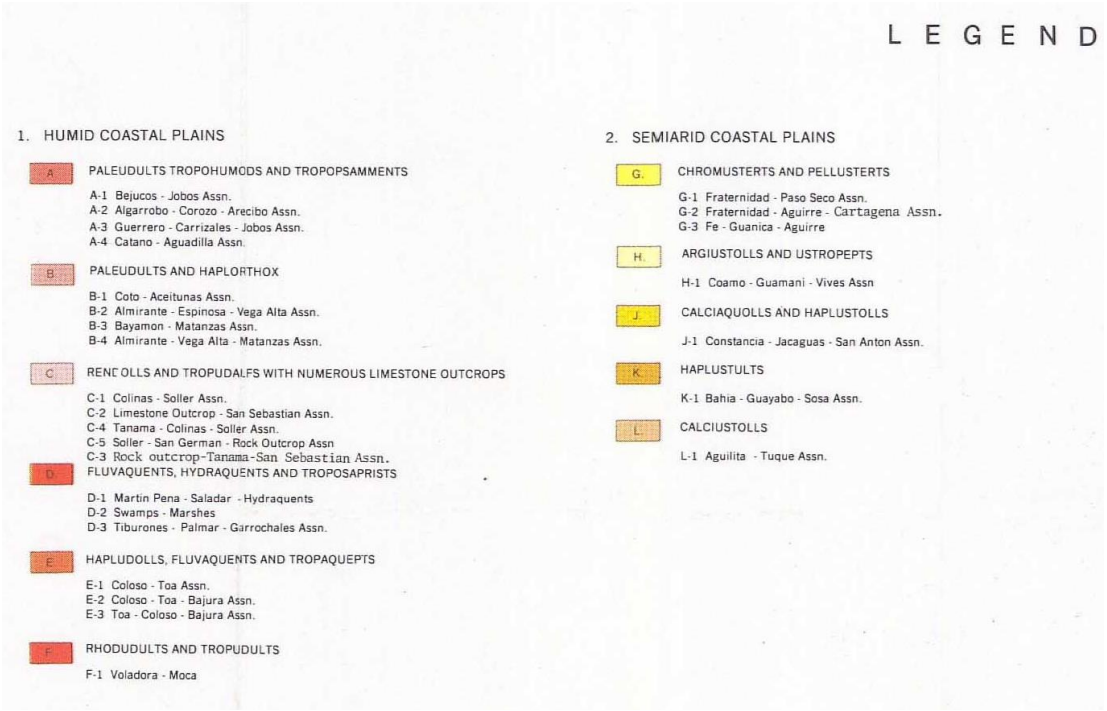
Los suelos son considerados como factores útiles y en cierta medida determinantes para establecer la sensibilidad arqueológica de un área de estudio. El criterio se fundamenta en la importancia que las actividades agrícolas tenían para la mayoría de los grupos indígenas que habitaron nuestra Isla. La siembra en particular de la yuca y otros tubérculos debió requerir que estos grupos establecieran sus yucayeques cercanos a lugares en que los terrenos fuesen propicios para este tipo de siembra. También, debemos tomar en consideración la siembra de otros alimentos tales como el maíz, batatas, frijoles, maní y otros productos que formaron parte fundamental de la dieta de nuestros primeros pobladores.

En ocasiones se ha utilizado este criterio de manera automática estableciendo altas posibilidades arqueológicas en zonas de terrenos generalmente consideradas por los estudios de suelos como fértiles y propios, esto para la siembre comercial de productos como la caña de azúcar y frutos menores. Esto es un error debido a que, por ejemplo, los suelos propios y de mayor rendimiento para la siembra de yuca y maíz no necesariamente son los mismos para la siembra de la caña de azúcar, plátanos o café. De igual manera los métodos rudimentarios y manuales de siembra de la yuca en la antigüedad, no son similares al uso de maquinaria agrícola que se emplea para la siembra de caña de azúcar.

Los suelos de nuestra área de estudio son calificados como Asociación Fe-Guánica-Aguirre (G-3) y Asociación Descalabrado - Jácana-San Germán (R-4). La Serie G-3 consiste en suelos de aluvión salino-sódico y no salino, drenaje moderadamente bueno a deficiente y casi planos. Esta asociación queda de 5 a 45 pies sobre el nivel del mar y está cruzada por el Río Loco y por el canal principal de drenaje del Valle de Lajas. En cambio, la Serie R-4 consiste en suelos riscoso en las laderas de montañas, suelos muy inclinados al pie de laderas, y suelos en valles estrechos y en conos aluviales bastante anchos. Esta asociación consiste en laderas de montañas riscosas, escabrosas, ligeramente redondas en su cima y sembradas de bosques y pastos o en cultivo; y valles estrechos o conos aluviales medianamente anchos (Soil Survey Lajas, 1965).



Mapa -6- Segmento del Mapa de Clasificación de Suelos de la Isla de Puerto Rico, exponiendo segmento que incluye el área de estudio (identificada con la línea entrecortada de color rojo) en el "BO PUEBLO". (Por favor refiérase a la Leyenda relacionada a este mapa, en la próxima Figura 2). (Id



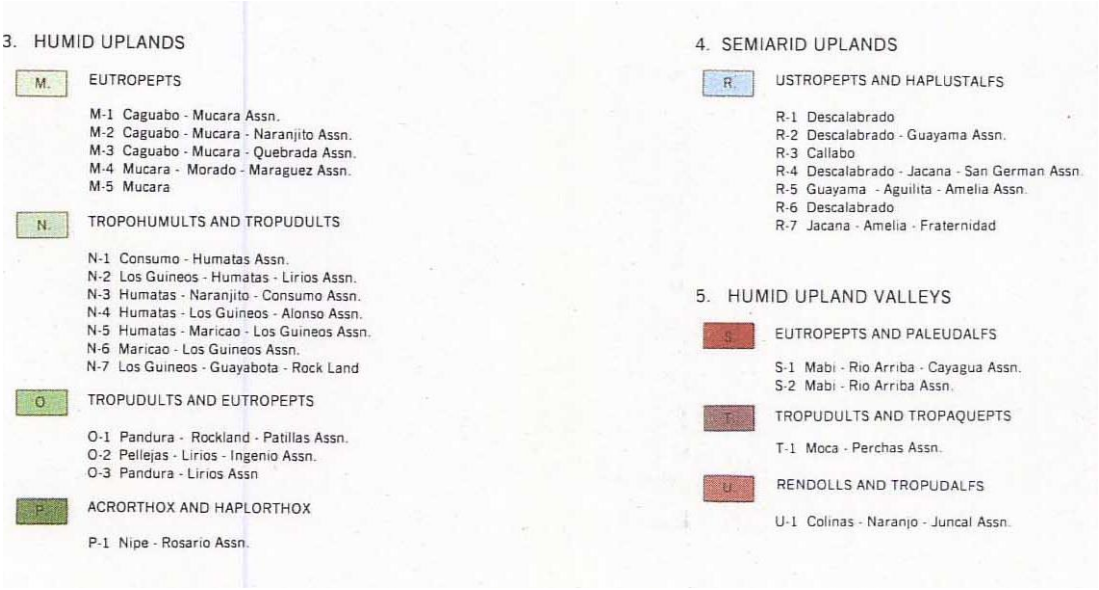
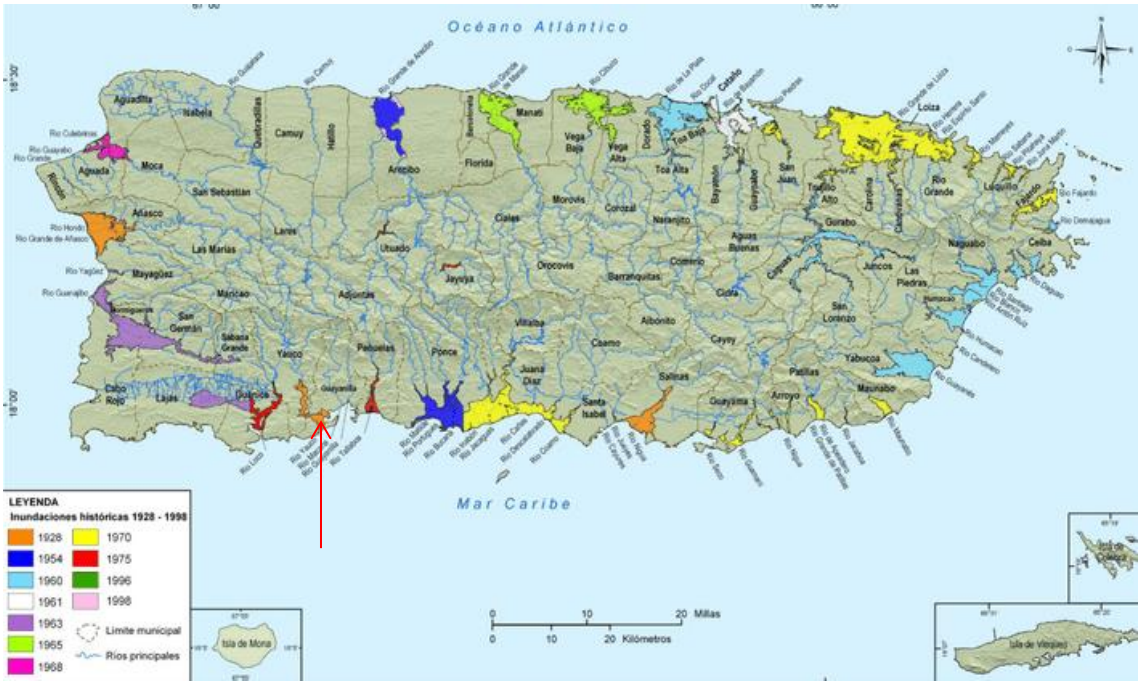


Ilustración -2- Leyenda de Clasificación de Suelos relativa al Mapa de Suelos de la Isla de Puerto Rico (Mapa 5, anterior). (Id).

C. Hidrología

El Municipio de Guánica, más allá de sus numerosas y hermosas playas, cuenta con el regadío natural del Río Loco, naciente al Oeste del Barrio Frailes en la municipalidad de Yauco, incursionando en el Municipio de Guánica por su extremo nordeste y desembocando en la Bahía de Guánica. El sistema hidrográfico de este municipio a su vez cuenta con la Laguna Providencia, aunque menguada en sus capacidades de hipersalinidad ya que se encuentra sedimentada casi en su totalidad. (worldcat.org).



Mapa -7- Mapa de los ríos principales de la Isla de Puerto Rico, identificándose el **Río Loco al Sudoeste con flecha de color rojo** (fuente US Geological Survey)



Ilustración -3- Fotografía aérea mostrando segmento de la **dispersión del cauce y desembocadura del Río Loco en la Bahía de Guánica** (identificada con la línea color blanco), señalada con la flecha (color rojo) y denominada Desembocadura del Río Loco en la Bahía de Guánica. Obsérvese también **al este el área de estudio (Plaza)** señalada con flecha (color anaranjado). (Google Earth).

D. Topografía

El territorio de este municipio es **mayormente llano**, salvo por unas **pequeñas elevaciones**: los cerros Lajara (en Montalva), que es el mayor, con ciento setenta y ocho metros (178m) de elevación, Abra (en Ensenada), Lomas de Seboruco (en Carenero) y El Peñón (en Ciénaga). El cerro Montalva y los montes Las Pardas y de La Brea, están todos localizados en el Barrio Montalva y se elevan a menos de cien metros (100m) de altura. (*boricuaonline.com*).



Mapa -8- Mapa Topográfico de la Isla de Puerto Rico, señalando con flecha de color rojo la Plaza de Guánica. *(welcome.topuertorico.org).*









Fotografías -4, 5, 6 y 7 - Vistas de las calles a los costados de la Plaza.



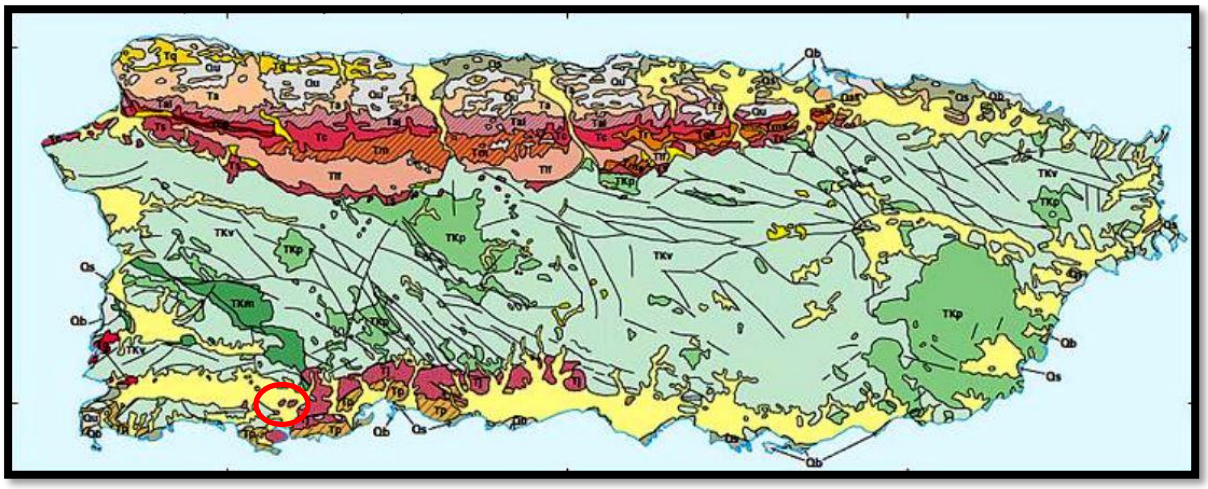
Fotografía -8- Vistas de un amplio segmento de Guánica y de su bahía, observándose sus suelos llanos y en segundo plano el Nordeste del Cerro Caprón. (Fotografía aérea del archivo de la Arqueóloga Alejandra M. Ortiz Burgos).

E. Geología

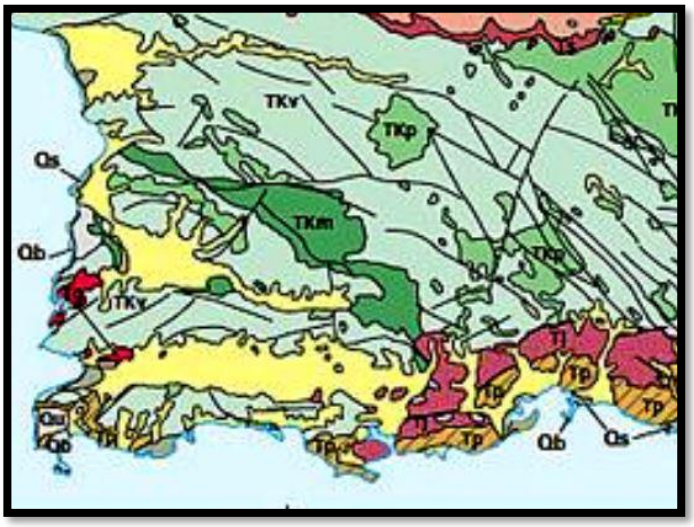
La geología del Municipio de Guánica forma parte de la región geográfica conocida como el Llano Costero del Sur. En los valles de esta sección abundan los terrenos aluviales adecuados para la agricultura al servirse del sistema de regadío porque el clima es muy seco.

De acuerdo con el Mapa Geológico de Puerto Rico e Islas Vírgenes publicado por el U.S. Geological Survey (Map I-1559), la geología de Guánica se compone de rocas volcánicas y volcanoclástica (Tkv) del Cretáceo Bajo, las formaciones de piedra caliza (Tp) de la Era Terciaria y depósitos aluviales (Qa) del período Cuaternario. Las rocas volcánicas y volcanoclástica del período entre el Cretáceo Temprano y el Eoceno consisten en arena tufacea y cieno, toba, lava, grano diorita y cuarzo diorita. Estas rocas poseen muchas imperfecciones y son estructuralmente complejas. Las rocas volcánicas y volcanoclástica se encuentran en terrenos altos y en la cima de las montañas que circundan la Bahía de Guánica.

Debajo de la Bahía de Guánica se encuentra la litología básica Piedra Caliza de Ponce del período entre el Oligoceno y el Mioceno. La exposición de esta capa en las áreas donde se han construido carreteras sugiere que el estrato individual puede alcanzar cientos de pies. Los depósitos aluviales del Holoceno y Pleistoceno rellenan los valles locales y consisten en arcillas y cieno, con lentes de arena fina que gradan a arena y abanicos de gravilla, depositados al Norte y al Sur de los valles. (Plan Territorial de Guánica, 2010).



Mapa -9- Mapa Geológico USGS de la Isla de Puerto Rico. (*USGS suelos de puerto rico/ mapas/imágenes/ geología/ HA 730-N Puerto Rico and the U.S. Virgin Islands Regional Summary*).



Mapa -10- Segmento del Mapa Geológico de la Isla de Puerto Rico (Mapa 12 anterior), Sección Sudoeste de la Isla. (Por favor observe la Leyenda correspondiente en la Figura 7 siguiente). (*USGS suelos de puerto rico/ mapas/imágenes/ geología/ HA 730-N Puerto Rico and the U.S. Virgin Islands Regional Summary.*

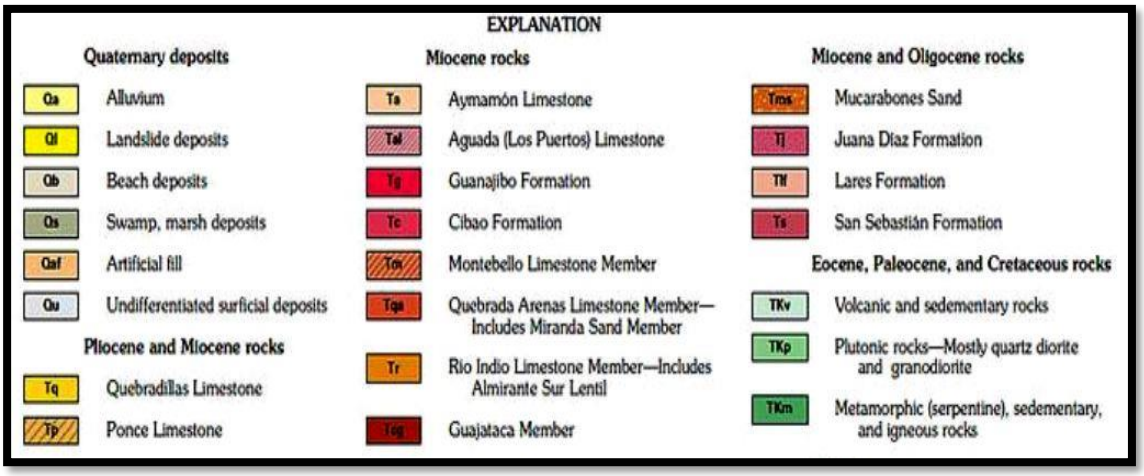


Ilustración -4- Leyenda correspondiente al Mapa Geológico de la Isla de Puerto Rico (mapas 12 y 13 anteriores). (*USGS suelos de puerto rico/ mapas/imágenes/ geología/ HA 730-N Puerto Rico and the U.S. Virgin Islands Regional Summary*).

En el mapa geológico de Puerto Rico se identifican dos áreas geológicas en la Plaza, a saber: **Qa**- Aluvión, depósitos Cuaternario, en el área llana del malecón y TJ**-** Juana Díaz Formation, rocas Miocenas u Oligocena, en el área Este donde se encuentra la zona Industrial y montañosa (Cerro Caprón). Se adelanta que en nuestra prospección de campo no se identificaron áreas expuestas o corte de terreno alguno. Solo fue posible observar suelos en el interior de las jardineras, los mismos (Favor de observar las fotografías 5, 6 y 7, anteriores).

VI. Apuntes sobre la Prehistoria de Guánica–Investigaciones Previas

Durante la década del 1930 el arqueólogo norteamericano ***Irving Rouse***, recorrió la isla en busca de sitios arqueológicos con el propósito de elaborar una cronología basada en la cerámica. Durante sus trabajos en Puerto Rico identifica varios sitios arqueológicos en el municipio de Guánica. Mediante la investigación realizada en Guánica Rouse, identificó los sitios conocidos como **"Abra" (Guánica 1).** En este lugar se identificaron restos de cerámica, conchas y otros elementos característicos de un asentamiento aborigen.

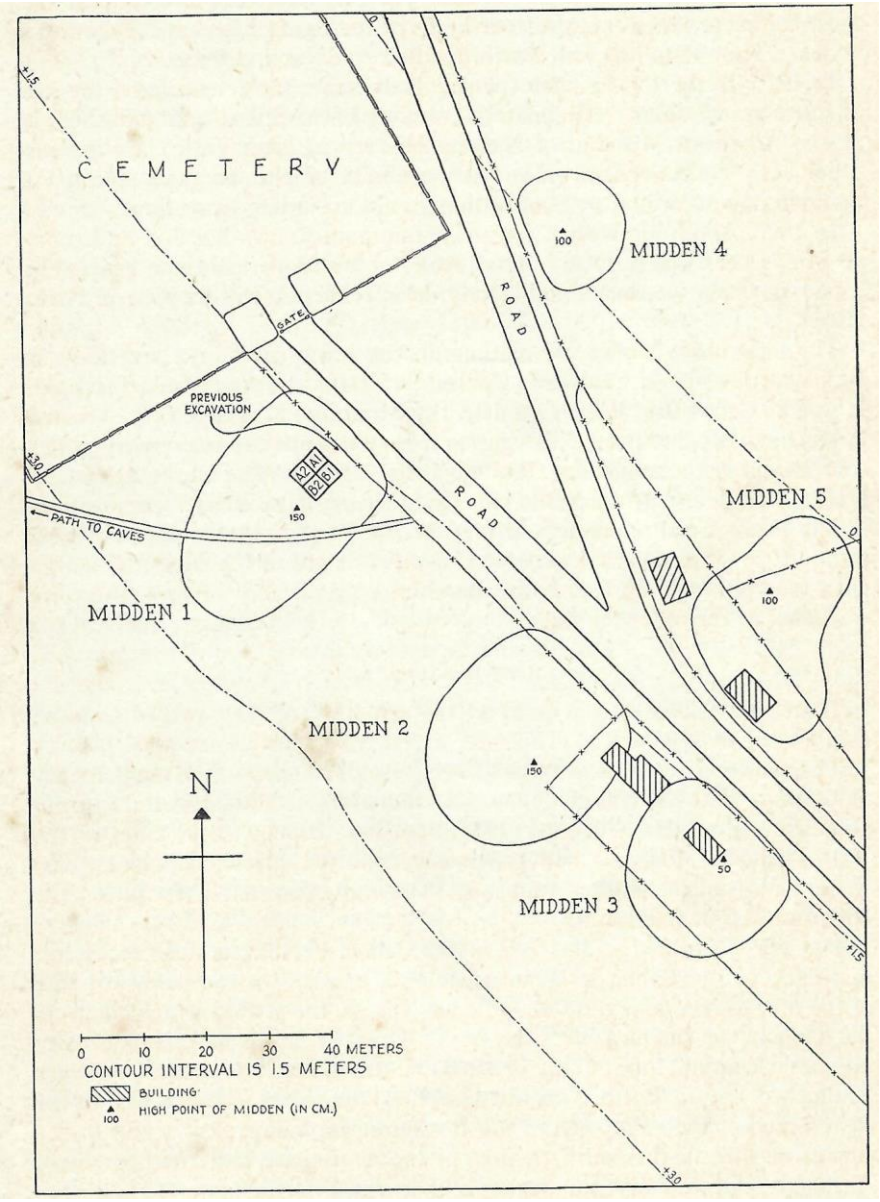


Ilustración - 5- Plano elaborado por Irving Rouse, durante sus excavaciones en el sitio de Abra, Guánica.

Este lugar arqueológico fue visitado también por ***Montalvo Guenard*** *y* ***Froelich Rainey***. Otros sitios visitados por Rouse fueron los siguientes: **La Cueva del Abra (Guánica 3),** este sitio corresponde a una cueva de formación caliza. En el interior de la cueva se identificaron evidencias de cerámica, conchas y varios petroglifos.

La Sociedad de Investigaciones Arqueológicas del Caribe durante el año 1984, identifica varios sitios arqueológicos nuevos, estos corresponden a: **Guánica 8**, el cual corresponde a un lugar prehistórico, ubicado en un llano

inundable en el barrio Caño. El sitio **Guánica 9, Cueva La Hoya**, en donde identifican varios petroglifos. El sitio **Guánica 10**, que consta de una cueva submarina en donde se identificó sitio prehistórico con abundantes restos líticos.

Más recientemente varios colegas han llevado a cabo evaluaciones arqueológicas con resultados positivos estos trabajos se discuten más adelante.

Existen (32) Sitios Arqueológicos registrados en las agencias relacionados con el quehacer arqueológico (SHPO –ICP), de los cuales veintidós (22) son en gran parte residuarios del Periodo Pre-Taíno y diez (10) son Lugares Históricos**.** No se conocen yacimientos asociados a las tempranas migraciones agro-alfareros, excepto de la presencia de fragmentos dispersos, como en el caso del Sitio Abra I.

VII. Antecedentes históricos del Municipio de Guánica

Nuestra historia como País está íntimamente ligada a Guánica, lugar donde comenzó el proceso de conquista por parte de la monarquía española y la invasión militar norteamericana (EE. UU.).

Según la leyenda y algunos historiadores, el primer desembarco del periodo histórico de relevancia en el área fue el de Juan Ponce de León, quien acompañó a Cristóbal Colón durante su segundo viaje a América y nuestro primer gobernador. Luego de instalarse en la española (Santo Domingo), solicitó lo dejaran llevar a cabo un reconocimiento a la isla de Puerto Rico. Según varios historiadores, ancló en la bahía de Guánica el 12 de agosto de 1508, en las tierras del yucayeque de Agueybaná. Como es esperarse, algunos historiadores opinan que este evento no tuvo lugar aquí, a pesar de que es evidenciado por varias fuentes, entre estas en la memoria del capitán Johan de Melgarejo. La raíz de esta información provino de Juan Ponce de León (nieto) y de Antonio de Santa Clara, quienes describen de la siguiente forma dicha visita:

...tomó tierra de la banda sur de esta isla, donde fundó un pueblo en el Puerto de Guánica, a donde tuvo por teniente a Don Cristóbal de Sotomayor, caballero de Galicia, y desde allí se empezó a conquistar esta isla, fue en un año 1508.

Si bien es cierto que existen opiniones divergentes en cuanto el tema del desembarco de Ponce de León, el consenso general sí apunta al hecho de que el embríonico Guánica era parte del yucayeque de Agueybaná y que se conocía

que el nombre de Guainía. Es en Guanía que Agueybaná II recibe a Cristóbal de Sotomayor, siendo en este lugar donde tuvo lugar el Guatía Ceremonial, en 1510, dicha ceremonia es muy bien explicada por Fernández de Oviedo en su Historia General. La villa se conocía con el nombre de Távara, en honor a la madre de Sotomayor, Beatriz de Távara, condesa de Camina.

Iniciada la colonización, Ponce de León envió a don Cristóbal de Sotomayor a poblar el sur de la Isla. Dice Cayetano Coll y Toste que, "D. Cristóbal de Sotomayor fijó su residencia en Guaynía, que era el Yucayeque, o aduar, de Guaybana (Agueybana). Quiso poblar más cerca de la laguna y los molestos cínifes se lo impidieron. Entonces dispuso trasladar el nuevo caserío al Noroeste de la Isla, cerca de la ranchería del cacique Aymamón, quien radicaba próximo al actual Municipio de Aguada. Le entregó el mando del pueblo al "Capitán Salazar". En el año 1511 ocurrió el levantamiento de los indios boriquenses quienes comandados por Guaybana y Guarionex, el Cacique de Otoao (hoy Utuado), destruyeron todos los comienzos de la colonización de los españoles en el sur y noroeste de la isla, incluyendo el poblado de Guaynía. Desde entonces quedaron lo que es hoy Guánica y todas sus cercanías abandonadas.

En estos principios históricos, Guánica era tan solo una bahía ya que el área era parte del municipio de San Germán. Sin embargo, ya poseía ciertos rasgos de personalidad propia como señala Fernando Miyares, quien describe la bahía como..." capaz de navíos de porte y a sus vecinos como de espíritu bizarro". Guánica continuaba recibiendo nuevos visitantes e invasores, relata Fray Iñigo Abbad, una incursión británica "en 1743 desembarcaron por Guánica, y sin más muralla que la de sus pechos le hicieron constante oposición hasta precisarlos a reembarcar". Se conoce, inclusive que los ingleses en esta ocasión construyeron una especie de fuerte de madera cerca de la entonces desembocadura de río Susúa. Como había sucedido en San Juan, los británicos tampoco pudieron prolongar su estancia en nuestra isla.

Según Pier Ledrú, en el 1797, describe el área como poseedora de la mejor bahía de la isla: "sus dimensiones son de dos leguas de largo y una de ancho y su fondeadero es tan seguro que en medio de las más fuertes tormentas no corren peligro alguno en ella las desembarcaciones".

Las próximas noticias que tenemos de la colonización alrededor de la Bahía de Guánica las ofrece Fray Iñigo Abad en su descripción de los pueblos de la Isla en el año 1776 cuando dice, hablando de la bahía de Guayanilla ". . . esta y la de Guánica ofrecen admirables situaciones para erigir pueblos con todas las

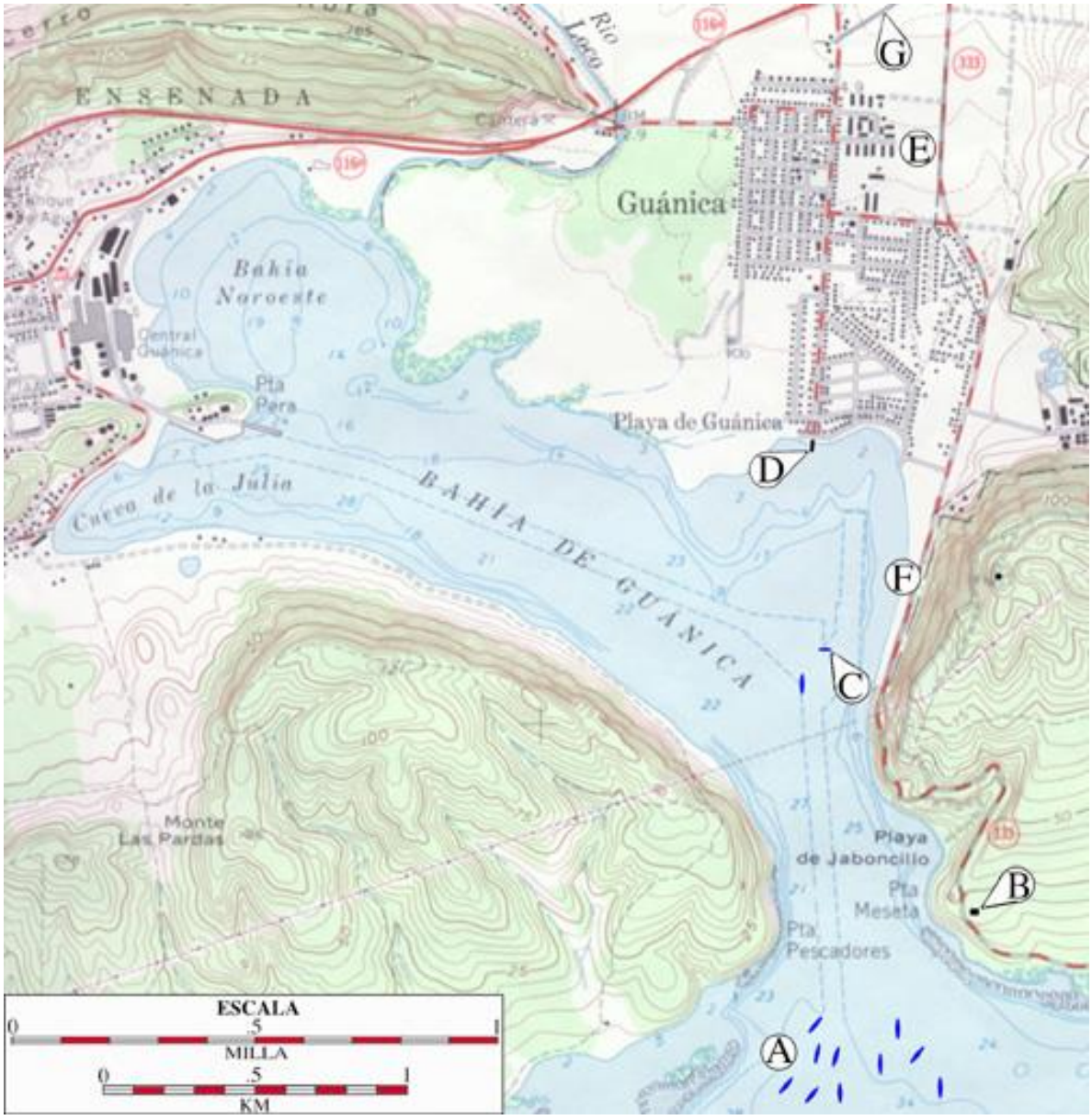
ventajas y comodidades que pueden apetecerse; y respecto que en una y otra hay establecido suficiente número de colonos para efectuarla, solo resta la división de términos y autorizarlos en la forma ordinaria". (Mapas de Municipios y Barrios, Guánica, Memoria Núm. 44, 1955).

Don Pedro Tomás de Córdoba, quien fue secretario del Capitán General de Puerto Rico señala que para el año 1831, Guánica pertenecía a uno de los 24 barrios del territorio de la Villa de San Germán y que el puerto de Guánica ya se utilizaba como tal.

En un documento sin fecha que aparece en el Boletín Histórico de Puerto Rico, de Cayetano Coll y Toste, encontramos una petición de los dueños del Hato Guánica "Arriba" y Pastillo, vecinos de la Villa de San Germán, para fundar una población con el título de Pueblo de Nuestra Señora del Socorro y San Vicente Ferrer de Guánica. Los solicitantes se comprometían a ceder las tierras para el pueblo pues los terrenos del hato eran de su propiedad y establecían una serie de condiciones que debían serle aceptadas, de concederse la fundación. Varios años más tarde y en otro documento sin fecha aparece una solicitud para que se investigue la situación que existía en el Poblado de Guánica donde las personas particulares se estaban apropiando de los terrenos donados para el pueblo y la situación que existía en el caserío era caótica. Aunque estos dos documentos no tienen fecha suponemos fueran preparados entre los años 1840 y 1870 (Id.).

En el año 1873, según un largo expediente en el archivo del Departamento de Obras Públicas, los vecinos del Barrio Guánica de San Germán solicitaron separarse de San Germán y ser anexados a Yauco. En el 1874 se realizó la anexión mediante un decreto del Gobernador don José Laureano Sanz. En el 1878 don Manuel Úbeda y Delgado menciona aún el "Poblado de Guánica" en el barrio del mismo nombre de Yauco, "cuyo puerto estaba habilitado para el comercio general de importación y exportación". (Id.).

Como parte de la Guerra Hispanoamericana, el 25 de julio de 1898 tropas del ejército de Estados Unidos (EE. UU.), con cerca de 3,300 hombres, invadieron la Isla de Puerto Rico. El primer desembarco tuvo lugar en Guánica, a pesar de haber sido planificado para Fajardo. Casi toda la población de Guánica huyó hacia Yauco o a los campos cercanos. Para ese entonces, el poblado de Guánica quedaba a un kilómetro de la playa, tenía veinte casas de madera y cuarenta bohíos. En la playa había cuatro estructuras, la casa del Cabo de Mar Vicente Ferré y un taller de toneles semi destruido. (*nuestropuertorico.com*).



Mapa -11- El desembarco en Guánica, 25 de julio de 1898 (ver leyenda que acompaña el mapa (home.coqui.net/sarrasin/desembarco.guanica.htm).

Leyenda del Mapa -13
1- 05:20. am. El convoy de barcos americanos llega a la entrada a la bahía de Guánica (**A**). Este convoy había salido de Guantánamo, Cuba, el día 21 de julio y estaba compuesto por los siguientes barcos de transporte, tropas y útiles de guerra:

- **Yale:** 1,300 soldados de infantería con los generales Miles (al mando de las operaciones terrestres) y Garretson, el Estado Mayor y raciones de campaña.
- **Columbia:** 300 soldados y raciones de campaña.
- **Lampasas:** 10 oficiales de ingenieros, 139 soldados, personal de la Cruz Roja, 22 carros de municiones, 136 caballos y mulas, parafernalia de ingeniería y un muelle de pontones (desmontable).
- **Comanche:** 442 artilleros con sus cañones, el General Guy V. Henry con sus oficiales y raciones de campaña.
- **Nueces:** 12 oficiales, 199 artilleros, 163 caballos y 22 carros de municiones.
- **Unionist:** Caballos para las baterías de cañones, cañones y agua potable. Este buque podía destilar diariamente 1,000 galones de agua salada.
- **Stillwater:** 6 oficiales y 60 soldados, el Cuerpo de Señales, 8 carros, un globo cautivo para observación y tiendas para las estaciones telegráficas de campaña.
- **Rita:** 672 soldados y raciones de campaña. El Rita era un buque español capturado por el Yale el 9 de mayo.
- **Specialist:** Caballos para la artillería, cañones y el alimento para el ganado.

Además acompañaban a los anteriores, el acorazado Massachusetts, el yate cañonero Gloucester, el crucero auxiliar Dixie y el cañonero Wasp. Toda la flota estaba comandada por el capitán del Massachusetts, Francis J. Higginson.

2- 05:30 - 06:00 am. El encargado (torrero) del faro de Guánica (**B**) Robustiano Rivera al avistar el convoy envía un mensaje al alcalde de Yauco, Atilio Gaztambide, apercibiéndolo de la llegada de los americanos. Gaztambide hace lo propio con el gobernador Macías. También el cabo de mar de Guánica, Vicente Ferrer corre a Yauco a informar de la presencia del convoy.

3- 06:00 am. El Gloucester, al mando del comandante Wainwright, entra en la bahía y después de determinar las profundidades de la misma, sale para informar al resto de los buques que el puerto es seguro.

4- 07:00 - 08:00 am. El Gloucester vuelve a entrar a la bahía y fondea (echa el ancla) a 600 metros de la costa (**C**). Del barco se arria una lancha con 28 infantes de marina al mando del teniente H. P. Huse y del teniente Wood que desembarcan en el pequeño muelle que hay en la playa (**D**). Los 28 soldados se despliegan por el área y bajan la bandera española que estaba izada, por ser el día de Santiago, patrón de España, en la casa del cabo de mar, Vicente Ferrer. Detrás del Gloucester entra el transporte Lampasas.

5- 08:00 am. 11 Guerrilleros de caballería que custodiaban el poblado al mando del teniente Enrique Méndez López, en el momento que se izaba la bandera americana en la casa del cabo de mar, Vicente Ferrer, disparan con sus fusiles Remington sobre los marinos desde la parte de atrás del pueblo (**E**) a unos 300 metros de la calle principal (hoy 25 de julio). Esta guerrilla pertenece a la 4ta.

volante de Yauco. Los marinos contestan el fuego con sus fusiles y con una ametralladora Colt que llevaba la lancha en la que desembarcaron. Durante el tiroteo, los infantes de marina colocan, a 50 y 100 metros de la playa, cercas de alambre de púas.

5- 08:15 am. El Gloucester (**C**) dispara, con sus cañones de tiro rápido de 3 y 6 libras, sobre el área (**E**) de donde provienen los disparos de la guerrilla. Méndez y tres guerrilleros son heridos y se ven obligados a retirarse por el camino de Yauco (**G**). -Ver: Lista de bajas-

6- 09:30 am. Llega a la playa (**D**) una lancha del Lampasas con el ingeniero ayudante Proctor y algunos soldados que se encargan de lanzar al agua un lanchón que allí había, de los utilizados para transportar carga de la playa a los barcos. En este lanchón bajaran las primeras tropas regulares de ingenieros que se encargarán de asegurar el lugar y comenzar a construir el muelle de pontones (**F**) por donde desembarcaran el resto de las tropas americanas.
Los infantes de marina del teniente Huse reembarcan en el Gloucester.

7- 11:00 am. Una vez construido el muelle de pontones (**F**) comienza el desembarco del resto de las tropas y materiales. Unos de los primeros en hacerlo son los integrantes de la Cruz Roja Americana. Por la tarde, algunas compañías marcharán por el camino de Yauco (**G**) enfrentándose durante la noche y madrugada del día siguiente con las tropas del capitán Meca y del coronel Puig en el combate de Yauco.

Notas

a- El área de Fajardo había sido escogida originalmente como el lugar para realizar el desembarco de las tropas americanas debido a su proximidad a San Juan, pero el general Miles cambió de idea el día 22 de julio, cuando navegaba hacia Puerto Rico, realizándose los desembarcos en la zona sur: Guánica, Ponce, Arroyo y Mayagüez. Este cambio de planes a última hora se debió a que la zona aledaña a Fajardo estaba mejor defendida; a que el alto mando español conocía ya que Fajardo era el lugar escogido por los americanos para el desembarco; y a que los puertos del sur tenían mejores condiciones para ello por ser sus aguas más profundas y tranquilas. Además, contaban con numerosos lanchones, de los utilizados para transportar mercancías del puerto a los barcos, que eran ideales para bajar a tierra las tropas y el material de guerra. También fue decisivo el hecho de que en esta zona había más desafectos a España entre la clase dirigente (política y económicamente hablando) que serían una ayuda invaluable.

b- En 1898 el poblado de Guánica, que quedaba a 1 km de la playa, estaba formado por unas 20 casas de madera y 40 bohíos. En la playa había 4 estructuras, entre ellas la casa del cabo de mar, Vicente Ferrer y un taller de reparación de toneles semi derruido en el cual se refugiaron parte de los infantes de marina durante el tiroteo. Guánica entonces era parte del municipio de Yauco.

c- Cuando se avistaron los barcos americanos, casi toda la población de Guánica huyó hacia Yauco o a los campos. Sólo se quedó en el poblado Simón

Mejil (puertorriqueño), un tonelero al que se le conocía como maestro Simón y que fue nombrado por los invasores como jefe de la policía. A Simón se les asignaron más tarde a 3 hombres: Salvador Muñoz, Cornelio Serrano y Pascual Elena. Todos ellos serán la primera fuerza policial de Puerto Rico nombrada por los americanos.

d- El alcalde de barrio de Guánica Agustín Barrenechea (Vizcaíno), el Cabo de Mar, Vicente Ferrer (valenciano), el práctico del puerto, Juan María Morciglio (español también), y el torrero, Robustiano Rivera (puertorriqueño), fueron confirmados por el general Garretson en sus respectivos cargos renunciando a la autoridad española y aceptando la americana.

e- El total de las tropas americanas que desembarcaran el 25 de julio y al día siguiente fueron 3,300 hombres distribuidos de la siguiente manera:

- 6to. Regimiento de Voluntarios de Infantería de Illinois.
- 6to. Regimiento de Voluntarios de Infantería de Massachusetts.
- 1 batallón provisional de infantería formado por reclutas
- 4 baterías de cañones de campaña.
- 1 batería de cañones de sitio.
- 2 compañías de ingenieros.
- 1 sección de sanidad.

115 soldados se quedaron en los barcos por estar enfermos.

f- Parte de las tropas que desembarcaron en Guánica reembarcarían días más tarde para proseguir viaje hacia Ponce y Arroyo. Durante las siguientes semanas, después del 25 de julio, habría un movimiento constante de tropas a través del puerto de Guánica (desembarco y reembarque).

g- Desde la salida (**G**) del poblado de Guánica hasta la zona del combate de Yauco hay aproximadamente 3 km (+/- 2 millas).

h- El teniente Enrique Méndez López, quien fuera herido al enfrentarse a las primeras tropas que desembarcaron por Guánica, sería capturado por los americanos el 9 de agosto tras el combate de Coamo.

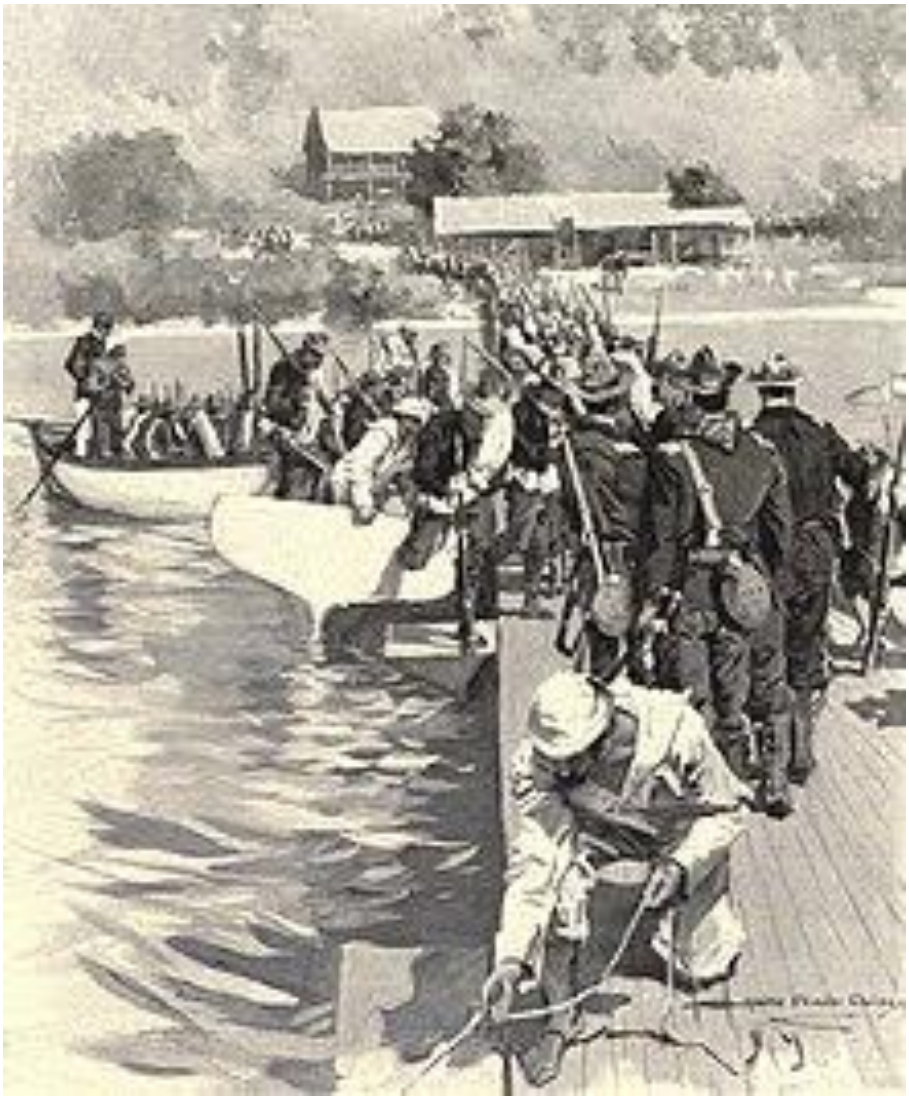


Ilustración - 6- El desembarco estadounidense en Guánica, 1898 (Foto Christy)

Es interesante notar que todavía en el 1898, cuando ocurre el cambio de soberanía, Guánica no se había constituido en pueblo independiente. El día 14 de enero de 1906, en la residencia de don Pascual Lentini, de Guánica, tuvo lugar la primera reunión relacionada con la independencia municipal de esta población. El proyecto para convertir a Guánica en municipio fue derrotado por la Cámara de delegados. (Mapas de Municipios y Barrios, Guánica, Memoria Núm. 44, 1955).

El 2 de febrero de 1912 se celebró en la Hacienda Santa Rita, jurisdicción de Yauco, una entrevista entre los delegados de Guánica y Yauco para hallar una fórmula de armonía entre las aspiraciones de los habitantes de Guánica y el

deseo de los yaucanos, de que Guánica siguiese perteneciendo a Yauco. Allí se firmó el Acuerdo de Santa Rita, el cual, en la historia de Guánica, vino a ser su Carta Autonómica. En el año 1914 la Asamblea Legislativa en su Segunda Sesión de ese año declaró a Guánica municipio de 3ra. Clase. Al nuevo municipio se le adjudicó, además del barrio Guánica, parte del barrio Susúa Baja de Yauco. En el censo del año 1930 vemos como estos dos barrios se habían subdividido y el municipio aparecía constituido por los barrios Caños, Carenero, Ciénagas, Ensenada, Montalva y Susúa Baja. (Id.)

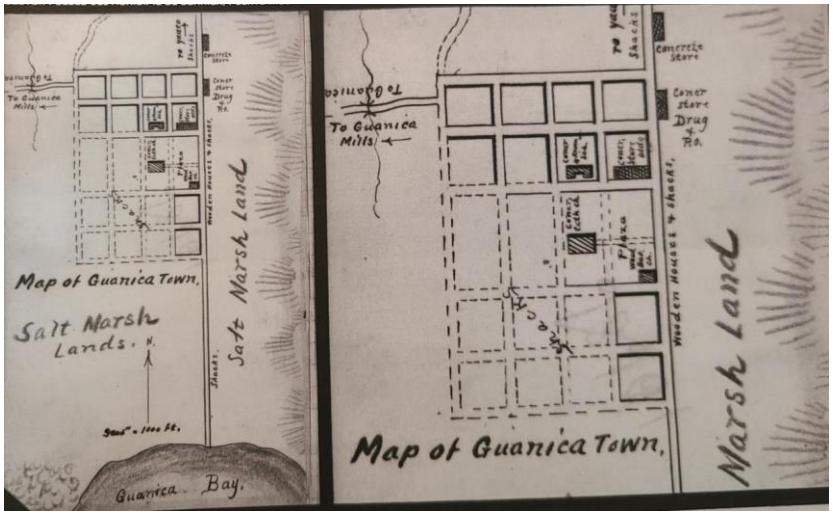
En el 1940 aparece un nuevo barrio, Limón. También en el 1940 se anota separadamente en el censo de ese año la aldea de Ensenada. En el 1948 al preparar la Junta de Planificación de Puerto Rico el Mapa de Municipios y Barrios de Guánica, siguiendo instrucciones de las autoridades municipales se hicieron algunas alteraciones en la organización del Municipio. El área conocida como aldea de Ensenada y el resto del barrio de Ensenada se fundieron bajo el nombre de barrio Ensenada. Este barrio tiene un carácter urbano. El nombre del barrio Caños se cambió a Caño y el del barrio Limón a barrio Arena. Desde esta fecha la organización territorial del municipio de Guánica se ha mantenido sin cambios hasta el presente: Barrio Pueblo o Zona Urbana, y barrios rurales Arena, Caño, Carenero, Ciénega, Ensenada, Montalvo y Susúa Baja (Id.).

Desde principios del Siglo XX, Guánica estuvo relacionada con la industria azucarera. En el año 1902, la "South Porto Rico Sugar Company" construyó la Central Guánica o Guánica Centrale, la cual se distinguió por su producción a lo largo de tres décadas. Una vez creada la Autoridad de Tierras y la Corporación Azucarera durante la década de 1940, el gobierno estatal adquirió la central. En el año 1976, la misma alcanzó la mayor molienda de caña: 536,081 toneladas de caña que produjeron 49,319 toneladas de azúcar y 3, 618,547 galones de miel. "La Guánica", como también se le conoció, mantuvo su actividad hasta la década de 1980. Ante el cierre de esta, el Municipio recurrió a otras fuentes de empleo tales como la manufactura (auspiciadas por la Compañía de Fomento Económico), la industria pesquera, el turismo y el cultivo de frutos menores en los vastos terrenos que ocupaban los sembradíos de caña. (*nuestropuertorico.com*).

A. Apuntes históricos del desarrollo del Pueblo y Plaza de Guánica

El asentamiento del poblado de Guánica se crea mediante la donación de terrenos de Sr. Justo Arenas y un grupo de locales interesados en levantar el

pueblo. El entramado del pueblo se recoge en el diario del Oficial William Armstrong en 1910, y es idéntico al diseño sometido y aprobado para esos mismos fines durante la segunda mitad del siglo XX. Obsérvese el entramado no se extiende hacia el frente costanero.



Mapa -12- Trazado del pueblo de Guánica y su relación con la Bahía de Guánica. (Fuente trg architects). (1930).

Tal pareciera que el área de la bahía estaba encaminada al comercio; primero por la presencia de un carenero en la bahía de Guánica que tiene como propósito acondicionar las embarcaciones que atracaban en el área, y la presencia en las inmediaciones de una fábrica de toneles.



Ilustración -7- Imagen de la Plaza pública de Guánica para comienzos del siglo XX. El espacio disfrutaba de árboles de sombra, aceras en diseños orgánicos, mobiliario urbano y grandes áreas de siembra idóneas para las tardes de retretas y demás actividades cívicas. (Fuente trg architects)



Ilustración -8-Imagen de la Plaza pública de Guánica, para comienzos del siglo XX. El espacio disfrutable de árboles de sombra, aceras en diseños orgánicos, mobiliario urbano. Se observa mucha actividad en la Plaza. (Fuente trg architects).



Ilustración - 9- Imagen de la Avenida 25 de julio, lado este de la Plaza, para la primera mitad del siglo XX. Obsérvese la gran arboleda a lo largo de su eje norte-sur. Se muestra el tipo de alumbrado eléctrico existente para la época. (Fuente trg Architects).

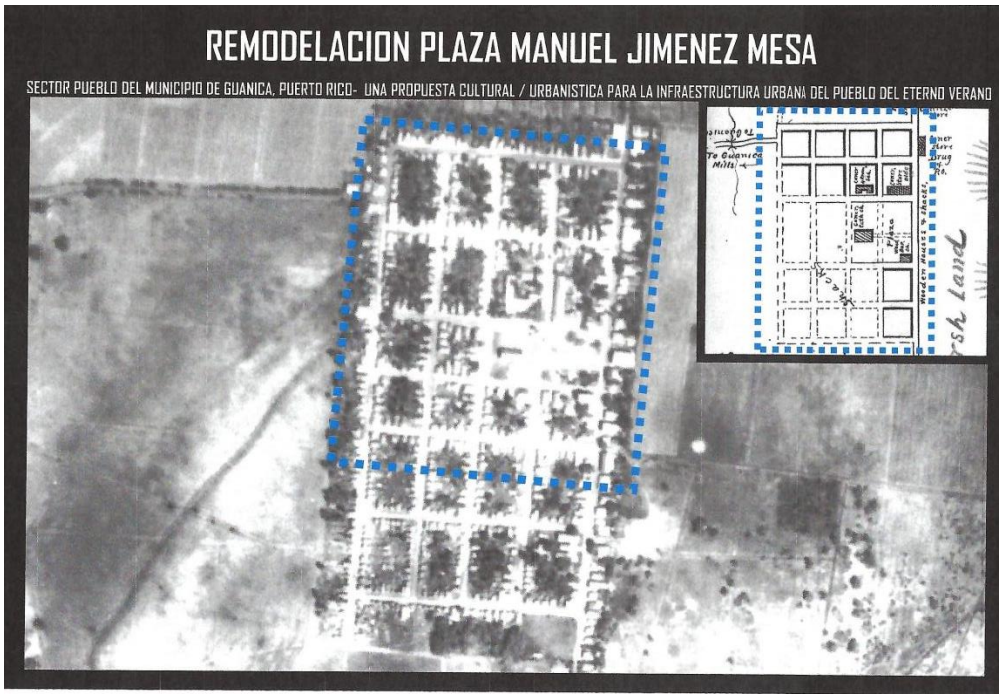


Ilustración - 10- En el primer inventario fotográfico de Puerto Rico para el 1930, se observa el centro urbano del pueblo más organizado y en crecimiento. (Fuente trg Architects).



Ilustración -11- Vista de la Plaza para la primera mitad del siglo XX. Obsérvese la glorieta en el lado norte de la Plaza, invadiendo algunas aceras antes vegetadas. (Fuente trg Architects).

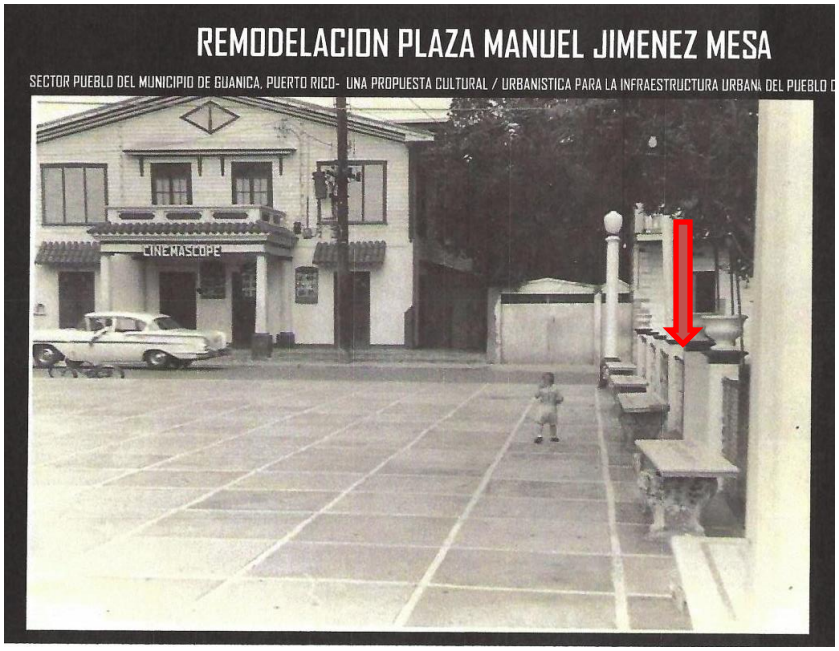


Ilustración -12-Imagen detalle de la Plaza Pública, donde se ilustra la incorporación de verjas interiores para aparentemente dividir las áreas pavimentadas de las áreas ajardinadas aparentemente en el costado sur de la Plaza, delimitadas con flecha de color rojo. Obsérvese la incorporación de bancos formalmente alineados a lo largo del pavimento de la Plaza. Al fondo la Avenida 25 de julio y el antiguo cine. (Fuente trg Architects).



Ilustración - 13- Imagen ampliada de procesión a misa de difuntos, entrando a la iglesia San Antonio de Padua. Mediados del siglo XX. Obsérvese los frondosos árboles flanqueando la Plaza y la glorieta asomando entre los árboles hacia el lado norte (lado izquierdo) el cine a lo largo de la Avenida 25 de julio al fondo. (Fuente trg Architects).



Ilustración - 14- Imagen de mediados del siglo XX, la Plaza de Guánica y la Iglesia San Antonio de Padua al fondo. (Fuente trg Architects).



Ilustración -15- Imagen de la Plaza mirando hacia la Iglesia San Antonio de Padua desde la Avenida 25 de Julio, segunda mitad del siglo XX. Obsérvese el reemplazo de la liviana glorieta por el templete levantado en hormigón al costado norte de la Plaza, eliminando aceras y jardineras sobre la huelle de la edificación. El tamaño de la edificación del templete contrasta con la escala de la iglesia, haciéndola lucir más pequeña. (Fuente trg Architects).

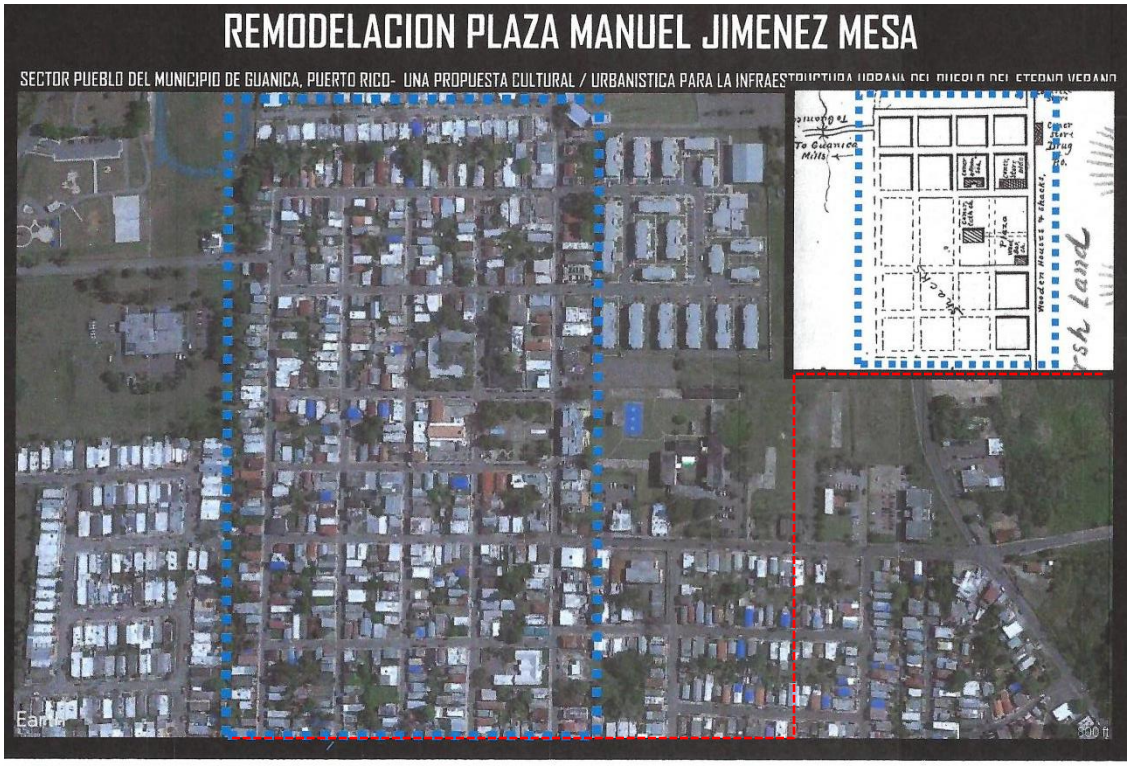


Ilustración -16- Vista aérea contemporánea del centro urbano de Guánica, contrastado con el boceto de Armstrong del 1930. (Fuente trg Architects).



Ilustración -17- Imagen aérea de la remodelación de la Plaza para el 2004, donde se eliminan los esquemas formales y de ajardinamiento del concepto original de la Plaza, optándose por un esquema radial cuyo centro y punto de partida es algún hito urbano. (Fuente trg Architects).



Ilustración -18- Imagen aérea de la remodelación realizada a la Plaza para el año 2016, donde se observa la dramática perdida de la arboleda y cubierta vegetativa. Se observan configuraciones en los ejes diagonales de la Plaza y el ensanchamiento pavimentado del área central. En esta remodelación se incorporando fuentes lineales gemelas en los extremos este y oeste del espacio urbano. (Fuente trg Architects).

B. El desarrollo del pueblo a través de los Cuadrángulos Históricos de Guánica

Durante casi nueve décadas a través de estos mapas es posible observar la evolución del pueblo de Guánica. Se construyen carreteras y nuevas calles. Se observa el trazado del pueblo una vez se funda el mismo, y como a través de los años se extiende el pueblo hacia sus cuatro cuadrantes.



Ilustración -19- Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,25000. Publicado Originalmente en 1935. El mapa fue preparado con datos del recorrido del año 1935. (US Geological Survey). Línea roja continua indica Área de estudio (Fuente AGPR).



Ilustración -20-Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,30000. Línea roja continua indica área de estudio. Publicado Originalmente en 1938. El mapa fue preparado con datos del recorrido del año 1935. (US Geological Survey, (Fuente AGPR).



Ilustración -21- Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,20000. Publicado Originalmente en 1956. El mapa fue preparado con datos del recorrido del año 1955. (US Geological Survey). Línea roja continua indica Área de estudio (Fuente AGPR).



Ilustración -22-Cuadrángulo Topográfico correspondiente a **Guánica** con escala de 1,20000. Editado Originalmente en 1966. El mapa fue preparado con datos del recorrido del año 1935 (US Geological Survey). Línea roja continua indica Área de estudio (Fuente AGPR).

C. Personajes Ilustres del Municipio de Guánica

Memorables personajes de la Historia Puertorriqueña (conocida) forman parte de la estelaridad perteneciente a este municipio. A continuación, se hace mención sobre aquellos que fueron conocidos:

-Primitivo Anglada – luchador por la reivindicación guaniqueña y primer secretario del Consejo Municipal,

-Rose Franco – primera mujer puertorriqueña nombrada "Chief Warrant Officer" en el U.S. Marine Corps,

-Miguel A. Morciglio – legislador de la Cámara de Representantes por el distrito 24 (1961-1964),

-Carmen Ramírez Vargas (c/p Lolita Vargas) – educadora, cantante y actriz,

-Rubén del Rosario – educador, escritor y lingüista,

-Víctor Sallaberry – primer alcalde elegido por el pueblo en 1914,

-Pedro Santana Ronda – escritor, poeta y periodista. Publicó el semanario *El Erizo*,

-Domingo Suárez Cruz – líder cívico, político, orador y escritor. Fue torrero del Faro de Guánica. La biblioteca pública lleva su nombre,

-María Heliodora Vargas – educadora y autora del poema "La bandera de los guaniqueños",

-Pedro Juan Vargas Mercado – periodista e historiador y

-Pedro Vargas Rodríguez – secretario del Comité Segreguista que logró la emancipación de este municipio. Poeta, orador, músico, escritor y periodista. Fundó *El Fósforo* (1908) y *Brisas del Caribe* (1915), primeros periódicos guaniqueños. (*boricuaonline.com*).

D. Bandera y Escudo de Guánica

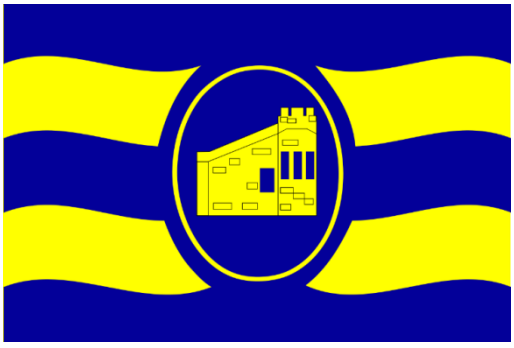


Ilustración -23- Bandera de Guánica. (*nuestropuertorico.com*).

La bandera de Guánica se compone de tres ondas azules y dos amarillas. En el centro figura la representación del Fuerte Caprón. Las ondas azules simbolizan la Bahía de Guánica y las amarillas representan el territorio indígena de Guaynía, nombre que ha sido relacionado con el de Guánica. Según Gonzalo Fernández de Oviedo, en su *Historia General de las Indias,* Guaynía estaba asociado a varios ríos con oro que corrían por esta región. Por otro lado, otra explicación para las ondas azules y amarillas es que las mismas aluden al nombre de Tavara, apellido materno de Cristóbal de Sotomayor y nombre de la villa fundada junto a la bahía de Guánica. Entre los blasones del linaje de Tábora (oriundo de Portugal) figura lo que el heraldista Santos Taveira describe así: "En campo de oro, cinco fajas ondeadas de azul". (*nuestropuertorico.com*).



Ilustración -24- Escudo de Guánica. (*nuestropuertorico.com*).

El Escudo de Guánica está compuesto de cuatro cuarteles o secciones. El primer cuartel es el que nos muestra un bohío o caney de color amarillo con corona de oro sobre fondo azul. Dichos símbolos representan la autoridad indígena en la Isla de Puerto Rico. El segundo cuartel es el que contiene un león rampante color púrpura sobre fondo plateado (blanco), blasón de los Ponce de León y la rama de Puerto Rico. Esta honra la memoria de Juan Ponce de León, primer colonizador y gobernador de la Isla. El tercer cuartel ostenta las armas de la noble y muy antigua familia Sotomayor. En este campo de plata (blanco), se encuentran tres fajas o franjas en cuadros de color gules (rojo heráldico) y oro, cargadas cada una de un ceñidor de sable. En el cuarto cuadrante, está representada la Bahía de Guánica, en ondas azules y doradas, aludiendo a las olas del mar y las arenas de las playas que bañan sus costas. En la parte inferior, se encuentran dos ramas verdes aludiendo a la caña de azúcar y a la industria azucarera de dicho pueblo. Completa el escudo una corona mural de tres torres, insignia municipal de Guánica. (*nuestropuertorico.com*).

VIII. Investigación Documental - Fase IA

Por disposición estatutaria (Ley 112) se realizan fases arqueológicas en todo proyecto de desarrollo o construcción en el que puedan ser impactados, directa o indirectamente, recursos arqueológicos existentes o potenciales, bien en la capa superficial del suelo, así como en sus capas inferiores. La **FASE IA consiste, en síntesis, de "investigación documental y reconocimiento preliminar" del área de estudio, con miras a establecer la presencia o ausencia de recursos de valor arqueológico, conocidos o potenciales, en el área del proyecto propuesto.**

El proyecto propuesto consiste en la **Remodelación de la Plaza de Guánica**. A tales efectos y en cumplimiento estricto del **Artículo 6. FASE IA del Reglamento Para La Radicación Y Evaluación Arqueológica De Proyectos De Construcción Y Desarrollo,** implementado por el Instituto De Cultura Puertorriqueña, el presente informe cumple a cabalidad con lo requerido en el mismo.

Se iniciaron las labores arqueológicas de FASE IA realizando una búsqueda exhaustiva en las fuentes primarias de información. En los mismos obtuvimos diversa, abundante y valiosa información pertinente al presente estudio. Logramos consultar datos históricos incluyendo fotografías

históricas y diversos análisis arqueológicos según sus distintas fases. Acudimos a la **Oficina Estatal de Conservación Histórica (en lo sucesivo OECH/SHPO)**. De igual manera accedimos los archivos de la **Oficina del Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña (ICP-PAE)** y su **Oficina de Patrimonio Histórico Edificado (ICP - PE)**. También visitamos para propósitos del presente informe la **Oficina de Fotogrametría de la Autoridad de Carreteras** (**en lo sucesivo (ACT**) y el **Archivo General de Historia de Puerto Rico** (**en lo sucesivo "AGPR"**). Cabe señalar la importancia que guardan las **fuentes primarias y secundarias de información confiables, muy en particular las cibernéticas**. De estas se compiló información que a su vez se ha hecho formar parte del presente informe.

Luego de realizada la investigación documental se realizó un análisis detenido y comprensivo de toda la información obtenida con el propósito de estructurar conclusiones en el orden arqueológico para definir el alcance y metodología de las labores de Reconocimiento Preliminar (Prospección de Campo). A tales efectos se tomaron en consideración mapas de diversa índole, Informes Arqueológicos (pertinentes), Estudios Arqueológicos (pertinentes), Listados Arqueológicos de Sitios Arqueológicos y Lugares Históricos, Inventarios pertinentes, Fotografías Históricas, así como modernas, los planos del proyecto, fuentes informativas científicas e históricas tradicionales y cibernéticas, así como toda aquella información que permitiese reconstruir la historia del área de estudio y áreas adyacentes.

A. Oficina Estatal de Conservación Histórica (en lo sucesivo OECH/SHPO)

1. Estudios Arqueológicos

Durante nuestra visita fuimos atendidos por las personas encargadas de los archivos de OECH/SHPO, incluyendo el digital. En este se custodian una amplia diversidad de Estudios Arqueológicos, así como de Inventarios de lugares históricos" de diversa naturaleza arqueológica. De igual forma se nos facilitó el **Inventario de Informes Arqueológicos** realizados en el Municipio de Guánica.

Respecto al área de estudio que constituye el objeto de estudio del presente informe **no** existe información alguna en este archivo. Sí logramos

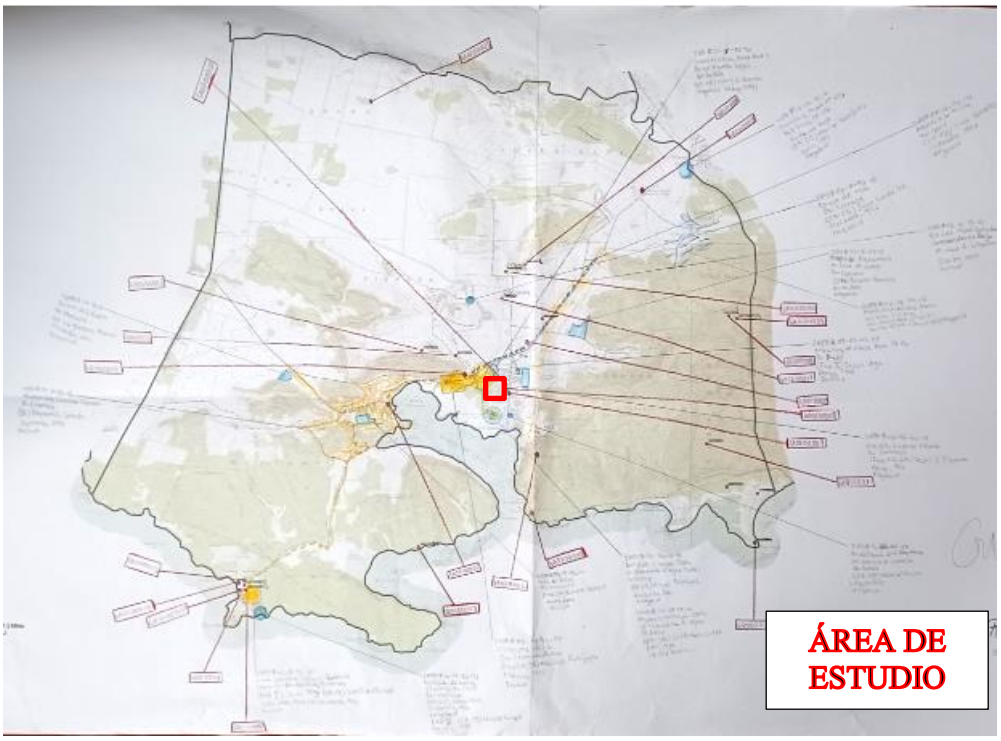
documentar información general del entorno de esta, así como de los Sitios Arqueológicos y Lugares Históricos más cercanos.

Accedimos a un inventario de veinte (20) Estudios Arqueológicos realizados en el Municipio de Guánica. De estos, identificamos los tres (3) Estudios Arqueológicos más cercanos a nuestra área de estudio, estableciendo un Perímetro de Estudio de quinientos metros (500m). A continuación, se exponen los mismos y otros muy cercamos al área de estudio en forma de tabla.

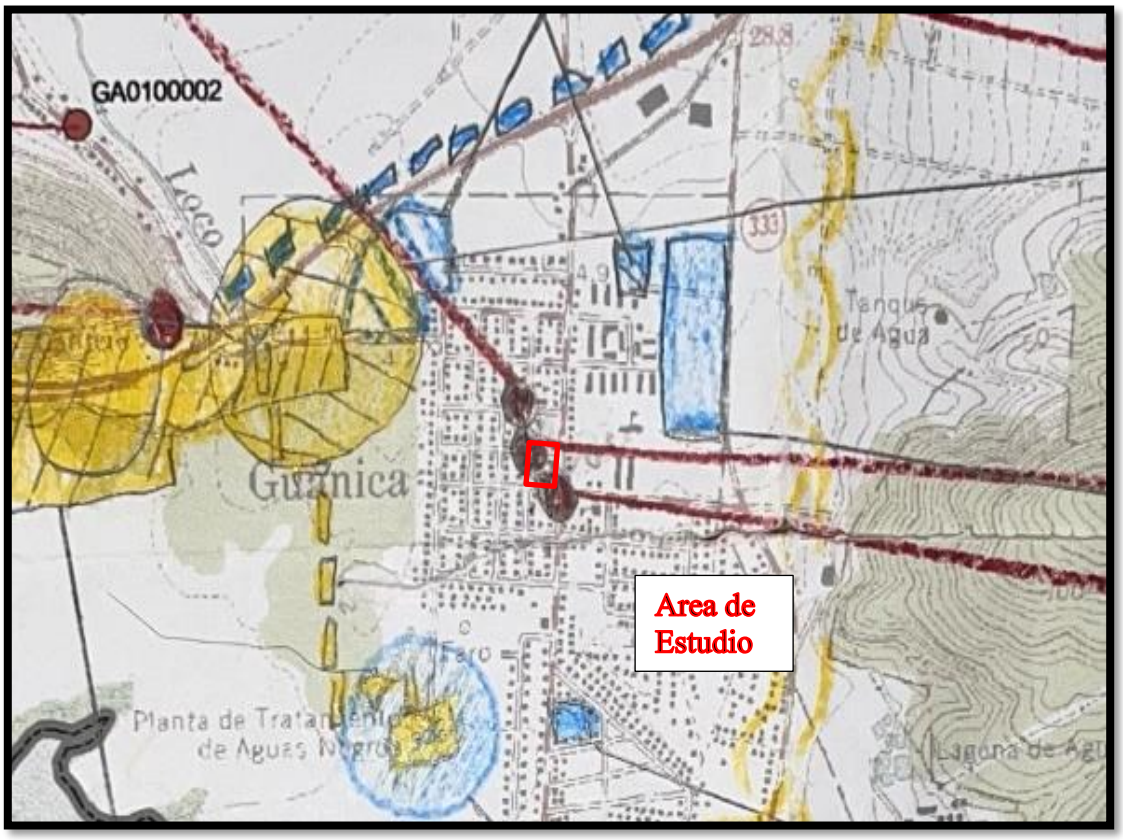
#	AUTOR	TITULO	COORDENADAS	SHPO	AÑO	RESULTADOS
1	Miguel Rodríguez	Ampliación y mejoras Planta de Tratamiento de Aguas Usadas FASE IA-IB	17 58 03 N 66 54 38 W	02-06-02-02	2001	Negativo
2	Marisol Rodríguez Miranda	Ensanche PR-116, FASE IA-IB	17 58'25.70" N 66 54'00.22W	09-04-97-03	1997	**Positivo**. Se identifican conchas en pozo de agua.
3	Jesús Vega	Widening of State Road PR-116 FASE II	17 58 25 N 66 54 45 W	09-04-97-03	1998	**Positivo.** Fase III No se recomiendan excavaciones. Esta conclusión se basa en las extensas alteraciones del terreno y la baja densidad de materiales culturales observada en ambos lugares. Se recomienda el monitoreo arqueológico al norte de la PR-116, debido a la sensibilidad general a los recursos culturales prehistóricos del Río Loco.
4	Juan González	Mejoras a la PR-116 FASE IA-IB	17.9834968 N - 66.9005682 W	03-16-95-09	1994	Negativo
5	Harry E. Alemán	Cancha Bajo Techo, Parque Pasivo Y Parque Pequeñas Ligas FASE IA-IB	17 58 22 N 66 54 30 W	03-31-86-03	1986	Negativo
6	Michael A. Cinquino	Cultural Resource Survey of Río Loco Flood Protection Project	17.9834968 N - 66.9005682 W	5-13-91-02	1997	**Positivo**
7	Federico Freytes	Rehabilitación de la zona urbana del municipio de Guánica FASE IA-IB	17 58 03 N 66. 54 27 W	05-24-10-07	2010	Negativo

8	Jesús Vega	Escuela Superior Urbana	17.58 19 N 66.5426 W	02-0290-14	1990	Negativo

Tabla -4- Listado de las investigaciones arqueológicas consultadas en los archivos de SHPO, más cercanas al área de estudio dentro de un perímetro de 500m.



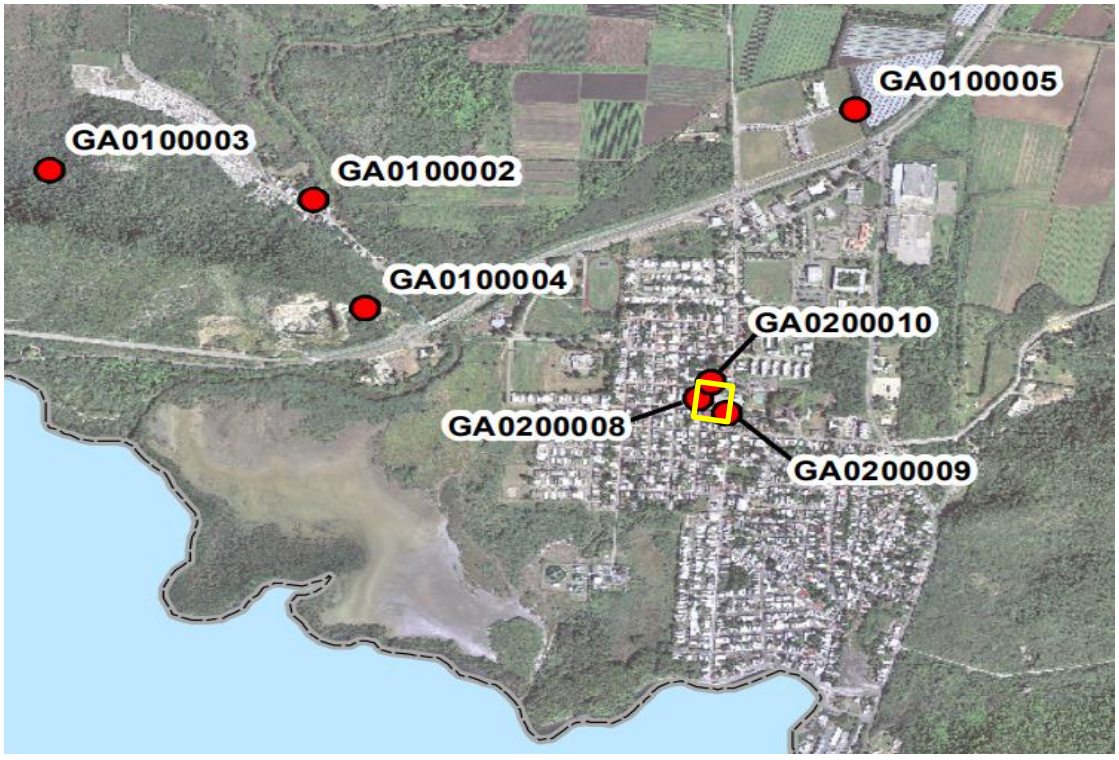
Mapa -13- Segmento del Cuadrángulo del Municipio de Guánica mostrando Estudios Arqueológicos realizados y reportados a OECH/SHPO. Las áreas coloreadas corresponden a las áreas evaluadas. Se observa el área de estudio identificada por la línea color roja y señalada como "Área de Estudio". (Archivo OECH/SHPO).



Mapa -14- Detalle del mapa mostrando área de estudio, recursos y estudios arqueológicos cercanos.

2. Sitios Arqueológicos - SHPO

Durante nuestra visita a la OECH/SHPO se nos permitió acceder al **Listado de Sitios Arqueológicos del Municipio de Guánica, el cual consta de veinticinco (25) Sitios.** De estos identificamos **los cuatro (3) más cercanos al área de estudio, estableciendo un Perímetro de Estudio de quinientos metros (500m).** Estos son los siguientes:



Mapa – 15- Imagen aérea de Guánica proporcionada por SHPO que muestra la ubicación de la Plaza Pública Manuel Jiménez Mesa (delimitada por líneas amarillas entre los elementos de valor cultural GA0200008, GA0200009 y GA0200010) y sitios arqueológicos más cercanos a la plaza, identificados por puntos rojos y su número de identificación.

1. GA0200008

Nombre: GA-23 - **Parroquia San Antonio Abad**
Coordenadas: X: 149687.5 Y: 215453.5
Descripción de acceso: Localizada en la calle Dr. Veve frente a la Plaza De Recreo Pública.
Periodo: Histórico
Cronología: Siglo XIX-XX
Yacimiento: Histórico. Religioso.
Asociación cultural: Histórico
Autor: Juan González

Comentario histórico: La Parroquia San Antonio Abad fue **construida a finales del Siglo XIX (1888)**. Su construcción respondió a las demandas del pueblo guaniqueño con motivo de su independencia del Municipio de Yauco. Ha sido remodelada en varias ocasiones. (*flickr.com*)

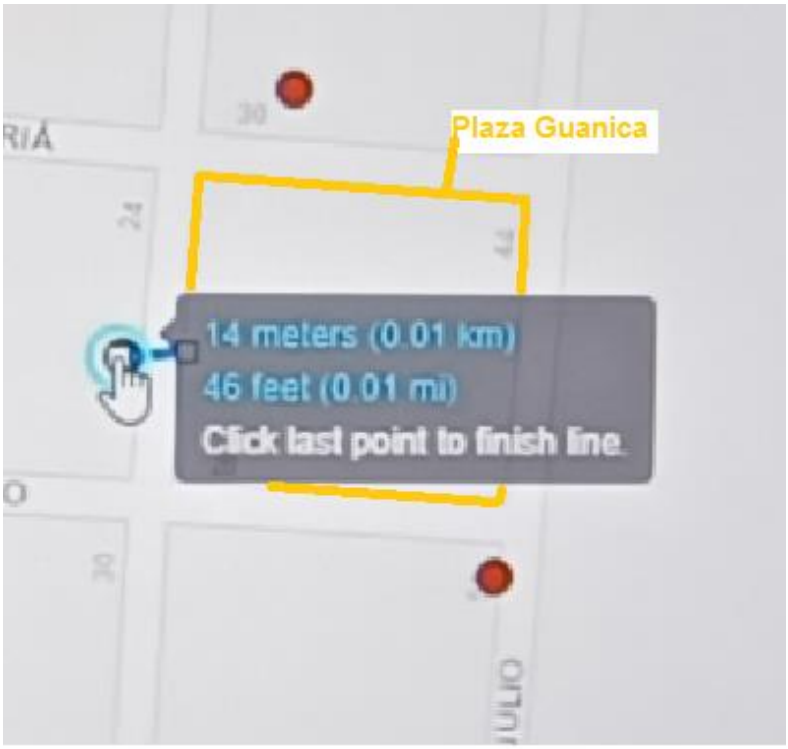


Ilustración - 25- GA0200008: Parroquia San Antonio Abad - GA-23: Ubicada a 14 metros Oeste de la plaza. Ubicación de la Parroquia de San Antonio Abad con respecto a la Plaza Pública. La línea azul indica la distancia en metros entre la Plaza y la Parroquia San Antonio Abad. Los puntos rojos son otros sitios arqueológicos registrados. El cuadrado naranja es la Plaza (Tomado del sistema digital de SHPO).

2. GA0200009

Nombre: GA-24 - **Museo de Arte e Historia**
Coordenadas: X: 149760 Y: 215411.5
Descripción de acceso: Localizado en la calle 25 de Julio esquina calle Carlos A. del Rosario
Periodo: Histórico
Cronología: Siglos XIX y XX
Yacimiento: Histórico Institucional
Asociación cultural: Histórico Siglo XX.
Autor: Juan González

<u>Comentario histórico</u> (sustraído del Informe): La edificación que alberga el Museo de Arte e Historia, por décadas la Casa Alcaldía de Guánica, data del año 1921. Luego de restaurada abrió sus puertas

convertidas en museo el 12 de marzo de 2006. A su vez es la sede de la Oficina de Arte, Cultura y Turismo de Guánica. Actualmente lleva el nombre de Don pedro Juan Vargas Mercado. (*guanica-puertorico.blogspot.com/2009/11*).



Ilustración -26-GA0200009: Museo de Historia y Arte- GA-24: Este sitio arqueológico se encuentra a 16 metros al sur del límite sur de la Plaza. Ubicación del Museo de Arte e Historia de Guánica con respecto a la plaza recreativa de Guánica. La línea azul indica la distancia en metros entre la Plaza y el Museo de Arte e Historia. Los puntos rojos son otros sitios arqueológicos registrados. El cuadrado naranja es la Plaza. (Tomado del Sistema digital de SHPO).

3. GA0200010

Nombre: GA-25 - **Escuela James Garfield**

Coordenadas: X: 149720.3 Y: 215504.4

Descripción de acceso: Localizada en la Calle 65 de Infantería; situada al Noroeste del área de estudio, accesándola **"a través de la calle de la plaza"** de la ciudad y al Norte de la principal iglesia católica en el Municipio de Guánica. (Ennegrecido y subrayado hecho

por la arqueóloga suscribiente: el lenguaje ha sido citado del Informe).
Periodo: Histórico
Cronología: Siglo XX
Yacimiento: Histórico. Industrial
Asociación cultural: Histórico. Siglo XX.
Autor: Juan Llanes Santos

Comentario histórico: La Escuela James Garfield está **registrada como Lugar Histórico (2015) en OECH/SHPO**. Fue construida en el año **1903 y reparada entre los años 1910 y 1926**, cuando su estructura fue ampliada. Lleva el nombre del vigésimo presidente de EE. UU. James A. Garfield. La misma está conformada de un nivel, siete aulas en forma de L, construida de ladrillo, mampostería y hormigón, con arquitectura neoclásica y con techo antepechado de metal plano. La propiedad se encuentra en un área de dos mil ochocientos ochenta metros cuadrados (2,880m^2) de un solar urbano. Es la **edificación escolar de mayor antigüedad en el Municipio de Guánica y una de las primeras casas escuelas en la Isla de Puerto Rico.** Fue la **primera instalación institucional en este municipio construida bajo el dominio del Gobierno de los Estados Unidos.** Con algunos cambios en su diseño, el recurso **conserva todos los demás aspectos integrales de su originalidad y significado.** Cabe resaltar que la propiedad **conserva su función histórica, ya que sirve como escuela en funciones plenas y de manera ininterrumpida durante los últimos ciento doce (112) años.** (*wikiz.com*). (*wikipedia.com*).



Ilustración -27-GA0200010: James Garfield School-GA-25: Ubicado a 20 metros Norte de la Plaza. Ubicación de la Escuela James Garfield con respecto a la Plaza Pública. La línea azul indica la distancia en metros entre la Plaza y la Escuela James Garfield. Los puntos rojos son sitios arqueológicos registrados. El cuadrado naranja es la Plaza. (Tomado del Sistema digital de SHPO).

Comentario: Los **tres (3) Sitios Arqueológicos** expuestos anteriormente ubican a una **distancia menor de 14m del área de estudio**.

a. Registro Nacional de Lugares Históricos (RNLH - OECH/ SHPO)

Al investigar los archivos en OECH/SHPO solicitamos accesar el Registro Nacional de Lugares Históricos. En este **se identificaron cuatro (4) Lugares Históricos** en el Municipio de Guánica. **Uno (1)** de estos se encuentra **dentro del Perímetro de Estudio de mil metros (500m): la Escuela James Garfield (884m).**

A continuación, se exponen las fichas y fotografías de los cuatro (4) Lugares Históricos más cercanos al área de estudio:

1- RNLH 77001549: Faro de Guánica – Localizado al Sur del (Barrio) Pueblo de Guánica, (28/MAR/77), 2021. (OECH/SHPO)



Fotografía -9- Faro de Guánica. (Registro Nacional de Lugares Históricos (OECH/SHPO).

2- RNLH 15000275: Escuela James Garfield – (James Garfield Graded School); Calle 65 de Infantería, (26/MAYO/15), 2021. (Id.)



Fotografía -10- Escuela James Garfield. (Id).

3- RNLH 84003147: Hacienda Santa Rita – (Casa de la Hacienda Santa Rita; Ingenio Santa Rita) Carretera Estatal #116, kilómetro 32.7; (05/ENE/84, 2021). (Id.)





Fotografías -11 y 12- Hacienda Santa Rita. (Id).



Fotografía -13- Campo de Batalla de Yauco. (Id.)

4- RNLH 00001383: Campo de Batalla de Yauco-
(Yauco Battle Site) Yauco Battlefield Site; Batalla de Yauco; Hacienda Quiñones; Hacienda Desideria; Hacienda Santa Rita; Delimitado por la Hacienda Santa Rita, Carretera #389, #116, #116R, Río Loco y Seboruco; (2/SEPT/08), 2021).

Comentario: Tal y como adelantáramos el único Lugar Histórico previamente documentado que se encuentra dentro del Perímetro de Estudio es la Escuela James Garfield, ubicada a 884m de distancia del área de estudio. Por lo que la arqueóloga suscribiente concluye que el desarrollo del proyecto propuesto no impactará, directa o indirectamente, dicho Lugar Histórico.

b. Inventario de Escuelas Históricas de las primeras décadas (1910 y 1920) del Siglo XX

En este inventario existen tres (3) escuelas, siendo las siguientes:

1. **Escuela James Garfield (1903)**
   Calle 65 de Infantería,

2. **Escuela José Rodríguez de Soto (1928)**
   Avenida Los Veteranos #40 y

3. **Escuela María Luisa McDougal** (el año de su fundación no consta en el archivo)
   Calle 65 de Infantería #23. (Id).

c. Inventario Histórico de Ingeniería

1. (American Railroad of Porto Rico) **Estación Santa Rita,** ubicada en la PR- 116, km.5.5, al Nordeste de Guánica, Barrio Susúa,

2. **Hacienda Santa Rita** (1800), ubicada en PR- 116, km. 32.7,

3. **(Ruinas) Faro de Guánica** (1892), ubicado en PR-333 al Este de la entrada del puerto del Municipio de Guánica,

4. **Cantera & Cal de Ensenada** (1978), ubicado en la PR- 116, km.27, en el Barrio Ensenada,

5. **Hacienda Igualdad** (c.1865-c.1890), ubicada en PR-332, km. 28.3, Barrio Caño y

6. **Guánica Centrale (Central Guánica)** (1902-1903), ubica en la PR- 116 Ramal del Barrio Ensenada.

d. Inventario de Ferrocarriles

1. **Tramo Transitable Santa Rita: (**1904) Barrio Susúa Baja,
   - **a. Estación Santa Rita:** (1904) Barrio Susúa Baja.
   - **b. Paso a Nivel** (no inventariado) y
   - **c. Cambija** (no inventariado).

2. **Tramo Transitable Fraternidad:** (1904) Barrio Susúa Baja.
   - **a. Tajea Fraternidad:** (1904) Barrio Susúa Baja,
   - **b. Alcantarilla Fraternidad:** (1904) Barrio Susúa Baja y
   - **c. Alcantarilla** (no hallada ni inventariada).

3. **Tramo Limón:** (1904) Barrio Susúa Baja.
   - **a. Alcantarilla Paso a Nivel Bonelli:** 1904, Barrio Arenas,
   - **b. Puente Limón I:** (1904) Barrio Arenas,
   - **c. Puente Limón II:** (1904) Barrio Arenas,
   - **d. Parada del Limón:** (1939) Barrio Arenas,
   - **e. Paso a Nivel Bonelli** (no inventariada),
   - **f. Alcantarilla Quebrada Maginas** (no inventariada)
   - **g. Paso a Nivel El Limón** (no inventariada).

4. **Tramo Paciencia:** (1904) Barrio Arena.
   - **a. Tajea Paciencia:** (1904) Barrio Arenas,
   - **b. Puente Hacienda Paciencia:** (1904) Barrio Arenas,
   - **c. Alcantarilla Paciencia 1:** (1904) Barrio Arenas,
   - **d. Alcantarilla Paciencia 2:** (1904) Barrio Arenas y
   - **e. Alcantarilla Paciencia 3:** (1904) Barrio Arenas.

e. Inventario de Haciendas y Centrales Azucareras ("Oeste")

1. **Maquinaria de Vapor Hacienda Igualdad:** (1870) PR- 332, km. 28.3., Barrio Caño,
2. **Hacienda Igualdad:** (1840) PR- 332, km. 28.3, Barrio Caño,
3. **Guánica Centrale Ensenada:** (1901) PR- 326 (Carretera hacia Playa Santa) y
4. **Hacienda Santa Rita:** (1800) PR- 116, km. 32.7.

La investigación documental realizada en la Oficina Estatal de Conservación Histórica OECH/SHPO) refleja claramente la inmensa riqueza cultural que posee este municipio, según los Inventarios de: Escuelas Históricas, Histórico e Ingeniería, Ferrocarril y Haciendas-Centrales Azucareras. Es palpable su sensibilidad arqueológica dados sus recursos culturales diversos, tanto precolombinos como históricos.

B. Instituto de Cultura Puertorriqueña- Programa de Arqueología y Etnohistoria (ICP-PAE)

En esta oficina se nos concedió el acceso al sistema de archivo digitalizado, así como estudios que aún no han sido digitalizados. Los estudios digitalizados presentan las áreas estudiadas identificadas con polígonos, facilitando así establecer la distancia y dirección magnética en relación con el área de estudio que nos ocupa, así como establecer el perímetro de estudio de mil metros (500m).

a. Estudios Arqueológicos

En el sistema digital del **ICP-PAE se identifican siete (7) Estudios Arqueológicos cuya cercanía ubica dentro del Perímetro de Estudio de quinientes metros (500m), de los cuales cinco (5) resultaron positivos.** Estos se exponen a continuación:



Ilustración -28-Imagen aérea donde se observa la zona urbana y Plaza de Guánica, mostrando el perímetro de 500 metros utilizado para trabajar nuestra investigación. (Tomado del sistema digital de ICP).



Ilustración-29- Imagen aérea mostrando la distancia desde la esquina noreste hasta la Escuela Superior Urbana (298.10 metros). Coordenadas: 17°58'21.35" N 66°54'27.13" W (Tomado de sistema digital de ICP).

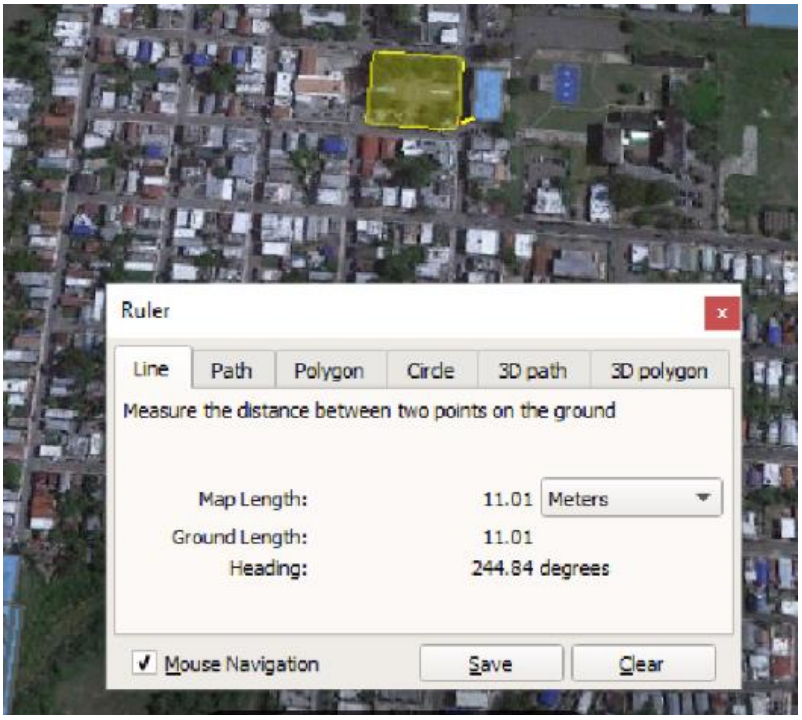


Ilustración -30- Imagen aérea mostrando la distancia desde la esquina sureste hasta el Nuevo Centro de Gobierno Municipal, (11.01 metros). Coordenadas: 17°58'19.71" N 66°54'27.26" W (Tomado de sistema digital de ICP).

ICP/CAT-GN-04-05-01: Nuevo Centro de Gobierno Municipal
Año: 2015
Autor: Adalberto Maurás Casillas
Barrio/Pueblo: Pueblo, Guánica
Firma: Bonnin Orozco, Arquitectos
Tipo Estudio: Fase IA-IB
Resultado: Positivo

Comentario (sustraído del Informe): La investigación documental no muestra sitios o yacimientos en el área del proyecto durante la inspección de campo. Se pudo comprobar que parte de este terreno ha sido impactado por la salida y entrada de vehículos. Es en la FASE IB que al realizar dos (2) pruebas de sondeo estas resultaron positivas. Los elementos encontrados fueron 2 fragmentos de ladrillo, carbón suelto y un pequeño pedazo de hueso. Citando el Informe reproducimos íntegramente la siguiente Conclusión/Recomendación: "Ya que los materiales recuperados no son de gran tamaño no se considera necesario la implementación de estudios adicionales". Ubica a setecientos setenta y siete puntos noventa metros (777.90m) de distancia, al Norte del área de estudio.



Ilustración-31- Imagen aérea del área de estudio, mostrando la distancia desde la esquina noreste hasta el Parque De Bombas, Carretera P.R. 333 (358.53 metros). Coordenadas: 17°58'21.35" N 66°54'27.13" W (Tomado de sistema digital de ICP).

Arql**.** Antonio Daubón Vidal
Parque de Bomba Carretera PR 333. Fase 1 A-1B
17°58'21.35" N, -66°54'27.13" W
ICP/CAT-GN-98-03-05

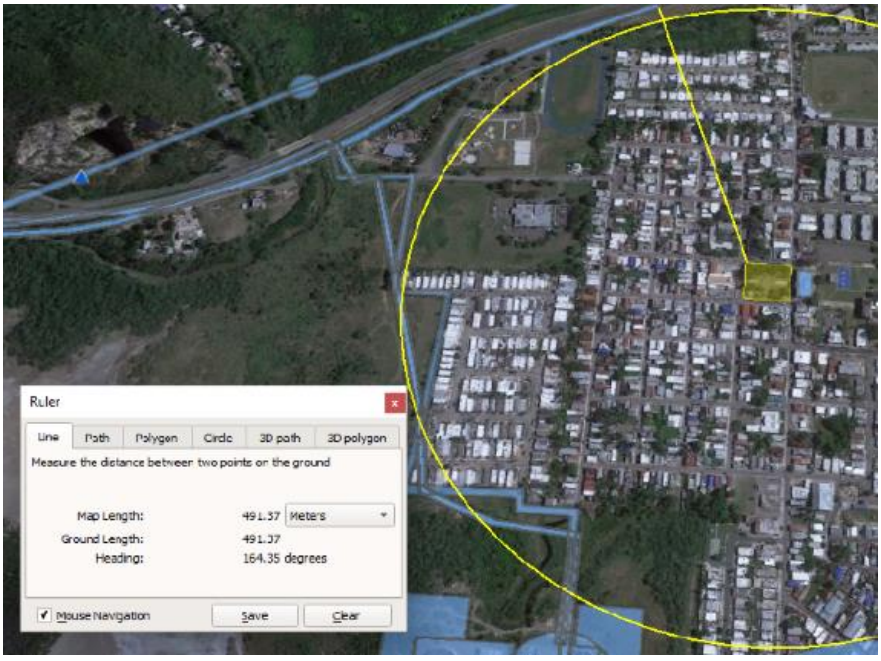


Ilustración -32- Sección del cuadrángulo de Guánica/ICP mostrando la distancia desde la esquina noroeste hasta el **Ensanche de la P.R. 116 (491.37 metros**). Coordenadas: 17°58'21.56" N 66°54'29.22" W (Tomado de sistema digital de ICP).

Marisol Rodríguez Miranda
Ensanche PR 116, Fase 1A-1B
17°58'21.56'N, -66°54'29.22'W
ICP/CAT GN-97-0303
1997

Comentarios sustraídos del informe. Positivo, de 29 pozos de pruebas el pozo 19 arrojó positivo. Se obtuvieron 12 fragmentos de proyectiles. También se obtuvieron resultados positivos en los hoyos 20, 21, 22, 24 y 25. El Pozo 20, también se recuperó un fragmento de espina de pez. Se recomienda monitoreo arqueológico.

A continuación, se muestran los resultados de la consulta a los informes arqueológicos realizada en el Instituto de Cultura Puertorriqueña (ICP/PAE).

NÚM.	AUTOR	TITULO	Coordenadas	ICP/PAE	AÑO	RESULTADOS
1	Adalberto Maurás Casillas	Nuevo Centro de Gobierno Municipal, Fase 1A-1B	17°58'19.71"N 66°54'27.26"W	ICP/CAT-GN-04-05-01	2015	Con base en los resultados negativos de la evaluación arqueológica realizada en la propiedad donde se encuentra el proyecto, fue aprobado el 17 de marzo de 2004
2	Eduardo Questell Rodríguez	Centro Comercial PR-333 Fase 1 A-1B	17°58'19.65"N 66°54'27.29" W	ICP/CAT-GN-03-04-06	2003	Negativo. El endoso se concedió en diciembre de 2003
3	Jesús F. Figueroa Lugo	Escuela Superior Urbana Fase 1 A-1B	17°58'21.35"N 66°54'27.13"W	ICP/CAT-GN90-01-06	1990	Negativo. Se recomienda la aprobación para este proyecto según lo planeado.
4	Antonio Daubón Vidal	Parque de Bomba Carretera PR 333. Fase 1 A-1B	17°58'21.35"N 66°54'27.13"W	ICP/CAT-GN-98-03-05	1998	Negativo.
	Aramis Font Negrón	Guánica Treatment Plant	17°58'19.72"N 66°54'29.37"W	ICP/CAT-GN-14-08-04	2014	Negativo
6	Juan A. Rivera Fontán	Línea de Descarga Sanitaria y dos Estaciones de la Comunidad Salinas Providencia. Fase 1B.	17°58'19.72"N 66°54'29.37"W	ICP/CAT-GN-95-02-02	1995	**Positivo**. Se detectaron tres áreas de depósito. Se recomienda una fase II para definir la naturaleza de estos depósitos, su extensión, componentes

						culturales y cronología, grado de integridad y su importancia.
7	Jesús E. Vega	Línea Sanitaria Salinas Providencia. Fase II	17°58'19.72"N 66°54'29.37"W	ICP/CAT-GN-04-05-03	2004	**Positivo** en un área con presencia de materiales prehistóricos impactados y combinado con abundante caracol y coral natural y basura moderna. Se otorga endoso en septiembre 13 de 2004
8	Marisol Rodríguez Miranda	Ensanche PR-116, Fase 1A-1B	17°58'21.56"N 66°54'29.22"W	ICP/CAT-GN-97-03-03	1997	**Positivo.** De los 29 pozos de prueba, el pozo 19 arrojó resultados positivos. Se obtuvieron 12 fragmentos de proyectiles. También se obtuvieron resultados positivos en los hoyos 20, 21, 22, 24 y 25. En el pozo 20, también se recuperó un fragmento de espina de pez. Se recomiendan, monitoreo y protección de áreas.
9	Juan González Colón	Mejoras a la PR-116	17°58'21.56"N 66°54'29.22"W	ICP/CAT-GN-94-01-07	1994	**Positivo.** En las cercanías de algunas sondas a e encontraron fragmentos de conchas, así como en las cercanías del lado este del canal del Río

						Loco. La evidencia de recursos es muy discreta, se recomienda el aval.
10	Jesús Vega	Widening of State Road PR-116, Fase II	17°58'21.56"N 66°54'29.22"W	ICP/CAT-GN-98-03-06	1998	No se recomiendan las excavaciones de la etapa III. Esta conclusión se basa en las extensas alteraciones del terreno y la baja densidad de materiales culturales observada en ambos lugares. Se recomienda el monitoreo arqueológico al norte de la PR-116, debido a la sensibilidad general a los recursos culturales prehistóricos del Río Loco.

Tabla -5- Evaluaciones Arqueológicas consultadas en el ICP/PAE a un perímetro de 500 metros.

A continuación, lista de los sitios arqueológicos documentados en los archivos de la Oficina Estatal de Conservación Histórica (SHPO-OECH), y el Instituto de Cultura Puertorriqueña (ICP-PAE).

#	NOMBRE	SHPO ID	IPRC ID	LOCALIZACIÓN	COORDENADAS	DESCRIPCIÓN	NRHP
1	**Abra**	GA0100002	GN-2	Bo. Carenero	17° 58'21.56"N 66°54'29.22"W	Se accede por la PR-331 Km. 0.6; residuario en la entrada del cementerio municipal. Este residuario se componía originalmente de varios montículos de abundante cerámica y conchas, escasa lítica. Se encuentra parcialmente destruido, la remoción de terreno alteró la topografía original, pero todavía se encuentran áreas que pueden ser excavadas. En el área se identificaron viviendas, carretera y la verja del cementerio. El sitio fue estudiado por el arqueólogo I. Rouse en el año 1936.	Pendiente

2	**Cueva del Abra**	GA0100003	GN-3	Bo. Ciénaga	17°58’21.56“ N 66° 54´29.22” W	Se accede por la carretera PR-331, en el Cerro del Abra. Cueva con algunos petroglifos, se encuentra parcialmente obstruida por los derrumbes que ocasionan las explosiones en una cantera de piedra cerca del área. Esto presenta peligro de destrucción del sitio y además impide su exploración. Se pudo identificar concha y cerámica escasa y dispersa.	Pendiente
3	**Cantera**	GA0100004	GN-4	Bo. Ensenada	17°58’21.56“ N 66° 54'29.22” W	Por la Carretera PR-116 Km 20, ubicado al lado Norte de la carretera en la cima del monte. Descrito como un residuario pequeño “camp site” con conchas y cerámica moderada y dispersa. Presenta peligro de destrucción debido a la posible expansión de la cantera.	Pendiente

4	**Residuario Caño I**	GA0100005	GN-5	Bo. Caño	17°58'19.65" N 66°54'27.29" W	Acceso por carretera PR-116 en el Km 28,8. La tierra pertenece a la Autoridad de Tierras. Se identificaron cerámicas y conchas dispersas en un área de 50 metros por 50 metros, con baja densidad. Los materiales identificados incluyen cerámica histórica y conchas. El sitio está asociado con un depósito cultural de cerámica precolombina, un basurero de conchas y un sitio de desechos. Investigaciones arqueológicas en el Caribe 1984, inventario de recursos arqueológicos ICP.	Pendiente

5	Parroquia San Antonio Abad	GA0200008	GA-23	Bo. Pueblo	18° 20' 57.32"N 66° 38' 41.5" W	Localizada en la calle Dr. Veve frente a la Plaza Pública. Fue construida originalmente a finales del siglo 19 (1876). Se construye como parte de las demandas del pueblo guaniqueño con motivo de su segregación del Municipio de Yauco. Se le han realizado varias remodelaciones.	Pendiente
6	Petroglifos Carnero I	GA0100009	GA-11	Bo. Carenero	17°98'32 "N 66°52'42" W	Sitio ubicado al pie del acantilado calizo de un afluente del río Yauco, a 500 metros al norte de la intersección de la quebrada con un camino de terracería que conecta con la carretera PR-334 a 1,4 Km, ligeramente al este de la casa del guardabosque del Bosque Estatal Guánica, barrio Carnero. Tiene una superficie de 15x3x3 metros. Refugio rocoso con suelo caliche y roca caliza en pendiente moderada, parte de un sistema	Pendiente

						que corre a lo largo del estrecho valle de un arroyo intermitente. Se identificaron varios petroglifos; Un grupo muestra lo que parecen ser figuras geométricas o cortes paralelos. El otro grupo muestra figuras redondeadas y antropomórficas. Ambos grupos están muy mal conservados	

7	**Escuela James Garfield**	GA0200010	GA-25	Bo. Pueblo	18° 21' 2.328" N 66° 38' 35.244" W	Localizada en la calle 65 de Infantería, situado al noroeste a través de la calle de la plaza de la ciudad y al norte de la principal iglesia católica en el municipio de Guánica Está registrada en como lugar histórico. (26/MAYO/15); 15000275. Fue construida en el año 1903 y reparada entre 1910 y 1926 donde fue ampliada su estructura. La estructura está conformada de un piso, siete aulas , en forma de L , de ladrillo , mampostería y hormigón neoclásico , construcción de metal plana con antepecho - techada . La propiedad se	15000275

						encuentra en un área de dos mil ochocientos ochenta (2.880) metros cuadrados de un solar urbano. El edificio de la escuela más antigua de Guánica y una de las primeras casas escuelas en la isla, el de recursos fue la primera instalación institucional en el municipio construido bajo el dominio de los Estados Unidos. Con algunos cambios en su diseño, el recurso conserva todos los demás aspectos de la integridad. A través de todos los cambios en el diseño y adiciones en las aulas, la estructura aún conserva todos los demás aspectos de la integridad y su significado. Igualmente, importante es el hecho de que la propiedad todavía conserva su función histórica, que sirve como una escuela de manera ininterrumpida durante los últimos ciento doce años.	

8	Museo de Arte e Historia	GA020000	GA24	Bo. Pueblo	18° 1' 21.696" N 66° 44' 5.929" W	Ubicado en la esquina de las calles 25 de Julio y Carlos A. del Rosario, el actual Museo de Arte e Historia fue en su día el Ayuntamiento de Guánica en décadas anteriores, con un edificio que data de 1921. Después de la restauración, abrió sus puertas como museo el 12 de marzo de 2006. También sirve como sede de la Oficina de Arte, Cultura y Turismo.	Pendiente

Tabla-6- Listado de los sitios arqueológicos en las agencias consultadas, Oficina Estatal de Conservación Histórica (OECH), Instituto de Cultura Puertorriqueña (ICP/PAE).

C. Archivo General y Biblioteca Nacional de Puerto Rico (AGPR)

El "Archivo General" siempre atesora sorpresas agradables y de inmenso valor investigativo. En particular, su archivo nos permite ampliar el horizonte arqueológico a través de un prisma que solo en este lugar se atesora**.**

Accedimos a planos, documentos y fotografías que de alguna forma ilustran los inicios de aquel poblado Yaucano, en el cual se fundaría el Municipio de Guánica el 13 de marzo de 1914.

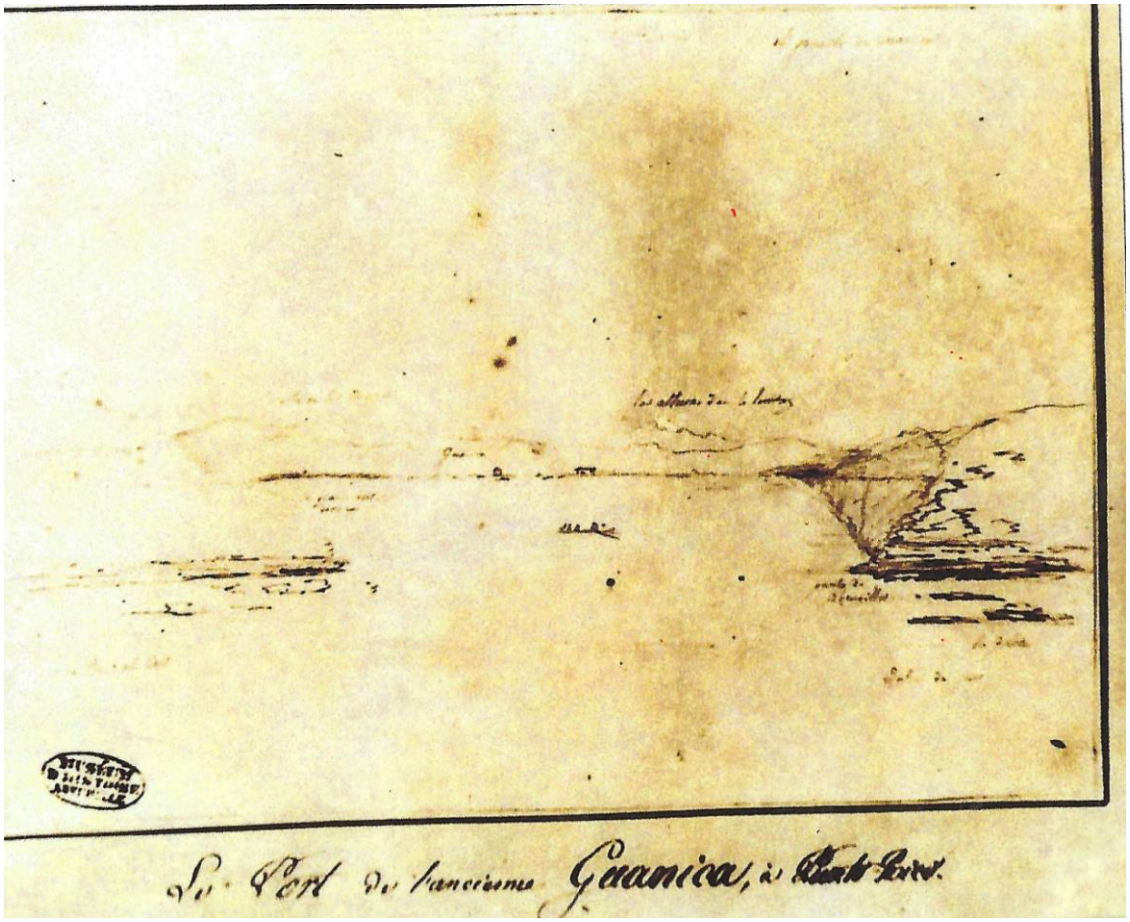


Ilustración -33- Croquis **El Puerto en funciones Guánica, en Puerto Rico** del año 1821 creado por Augusto Plée. (AGPR).

Durante la consulta recuperamos varios documentos los cuales constan de planos, mapas y fotografías las cuales nos posibilitaron documentar los acontecimientos históricos de la bahía y del pueblo.

Como parte integral de los trabajos de investigación documental dirigidos a reconstruir históricamente el área de estudio y sus áreas adyacentes consultamos otros documentos gráficos que constituyen un pilar en el quehacer arqueológico. Estos son: **Mapas Topográficos (USGS)**, **Fotografías Históricas** (previas al 1994) y datos.

D. Autoridad de Carreteras-Oficina de Fotogrametría (ACT-OF)

A continuación, se exponen **cuatro (4) Fotografías Históricas, de los años 1936, 1950, 1963 y 1977 y una (1) actual (2022), en las que se observa el área de estudio, su desarrollo y su entorno amplio**.



Fotografía-14-Imagen aérea del año 1936, identificando la localización del área de estudio con la línea color roja. (Oficina de Fotogrametría-ACT).



Fotografía -15- Imagen aérea del 1950, identificando la localización del área de estudio con línea color roja. (Id).



Fotografía-16-Imagen aérea del año 1963, identificando la localización del área de estudio con la línea color rojo. (Id.).



Fotografía -17- Imagen aérea del año 1977, identificando la localización del área de estudio con la línea color rojo. (Id).

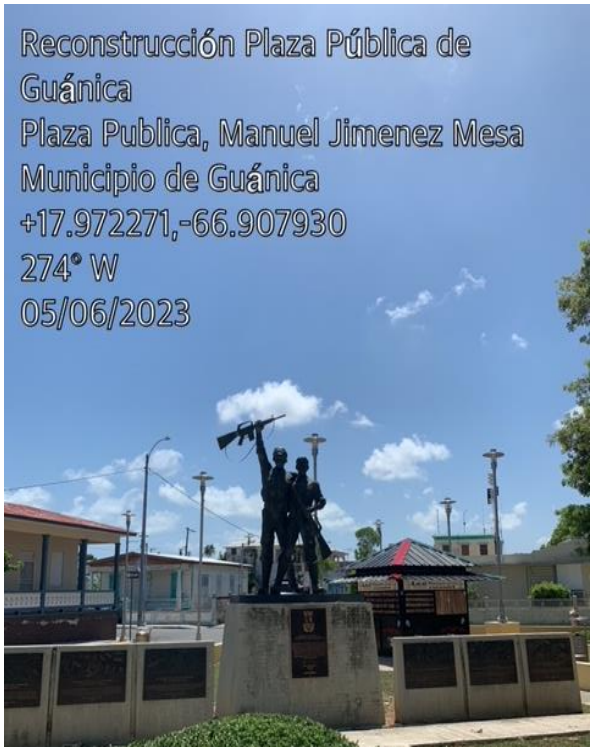
Al analizar los **Segmentos de Cuadrángulos Topográficos** (USGS-Mapas Topográficos), las **Fotografías Históricas** (aéreas)**, Fotografías Modernas, se aprecian cambios significativos en el costado sureste de la Plaza de Guánica, es decir del área de estudio objeto del presente Informe y su entorno**. Dada la cercanía del Malecón de Guánica al casco urbano, se observa que la **mayor actividad de desarrollo desde la primera mitad del siglo XX es entre los años 1963 al 1977. Es durante estos años cuando se comienza a percibir, en los Cuadrángulos Topográficos y en las Fotografías Históricas en detalle, un mayor incremento urbano en el área de estudio. A la vez se percibe el notable crecimiento industrial al Este de dicha área.**

IX. Reconocimiento Preliminar de Campo área de la Plaza de Guánica

El 6 de mayo del 2023 realizamos el **Reconocimiento Preliminar de Campo de la FASE IA** para el proyecto propuesto. Las labores fueron dirigidas y supervisadas por la suscribiente, Arqueóloga Virginia Rivera Calderón. El equipo de trabajo de esta lo fueron el Arqueólogo Fernando Vargas, junto a los Arqueotécnicos Lydia Burgos Ortiz y Ramón Negrón.

El propósito de nuestra prospección de campo (reconocimiento preliminar) fue observar detenida y minuciosamente las características, condiciones del área de estudio, su entorno amplio, con miras a establecer la sensibilidad arqueológica de esta. Además, establecer la presencia o ausencia de elementos de valor histórico o arqueológico en el área de estudio. **Las fuentes documentales, históricas y actuales, investigadas no incluyen recurso arqueológico alguno en el área de Estudio.**

Durante el reconocimiento de campo se documentaron todos y cada uno de los hallazgos mediante anotaciones, fotografías coordenadas. Se documentó la Plaza Manual Jiménez Mesa mediante fotografías en todos sus cuadrantes y en su interior.





Fotografías – 18 y 19-Esculturas existentes en la Plaza de Guánica.



Fotografías – 20, 21, 22, 23, 24 y 25- Vistas del espacio interior de la Plaza de Guánica.



Fotografías – 26, 27 y 28- Kioscos y fuente de la Plaza de Guánica.



Fotografías – 29, 30 y 31- Estructuras existentes hacia los cuadrantes de la Plaza de Guánica.

IX. Resultados de los trabajos de FASE IA - Reconocimiento de la Plaza de Guánica.

La **investigación documental** relacionada a la preparación del presente informe ha sido exhaustiva y fructífera. Primeramente, cabe señalar que en el área de la actual plaza no se identificaron estudios arqueológicos previos. Los estudios arqueológicos consultados que resultaron positivos a evidencias arqueológicos ubican fuera del área de impacto del propuesto proyecto. Estos estudios corresponden al Estudio de Línea Sanitaria de las Comunidades de Salinas y Providencia en donde resulto positiva la Fase 1A-1B, realizada por el Arql. Juan Rivera Fontán ICP/CAT-GN 95-02-02 1995, Luego se solicita llevar a cabo Fase II, los cuales fueron realizados por el Arql. Jesús E. Vega, ICP/CAT GN -04-05-03, 2004. El Arql. Vega, otorga el endoso. La Arql. Marisol Rodríguez Miranda, lleva a cabo Fase 1A-1B para el proyecto Ensanche PR 116, ICP/CAT-GN-97-0303 en el año 1997, resultando positivo a evidencias de fauna vertebrada e invertebrada, como resultado recomienda llevar a cabo trabajos adicionales. El Arql. Jesús Vega, lleva a cao trabajos de Fase III durante las excavaciones se identifican muy pocos restos arqueológicos. Como resultado, Vega recomienda lleva a cabo monitoria arqueológica.

Los archivos consultados nos señalan la presencia de tres elementos de valor arqueológico cercanos al área del proyecto, estos corresponden **a la Parroquia San Antonio Abad, Museo de Arte e Historia y la Escuela James Garfield.** Las tres estructuras están separadas físicamente del área de la Plaza, razón por la cual el propuesto proyecto no causará impactos a las mismas.

En cuanto a los sitios previamente documentados en las agencias concernientes, ninguna se encuentra en área de impacto directo o indirecto. Los más próximos corresponden a los mencionados arriba y como indicáramos antes las estructuras están separadas físicamente del área del proyecto.

A modo de conclusión la suscribiente

De la información contenida en los documentos estudiados y analizados, concluimos que **los recursos arqueológicos que guardan alguna pertinencia con el presente estudio corresponden <u>en su mayoría</u> a <u>Yacimientos del Periodo Indígena</u> <u>y</u> a <u>Estructuras Edificadas Históricas</u>.** Respecto a los **<u>yacimientos dos (2) son los</u> <u>más cercanos</u> al área de estudio, <u>ambos</u> <u>ubicando fuera del Perímetro de Estudio</u> (500m).** No obstante, se incluyen a continuación: **1-)** el **GA-4: Cantera**

(OECH/SHPO) a ochocientos cincuenta y nueve metros (**859m**) de distancia, al Noroeste del área de estudio y 2**-)** el **GA-5: Residuario Caño I** (OECH/SHPO) a novecientos cinco metros (**905m**) de distancia, al Nordeste del área de estudio.

En **total, respecto al Municipio de Guánica, se han registrado treinta y dos (32) Sitios Arqueológicos, de los cuales veintidós (22) son en gran parte residuarios del Periodo Pre-Taíno y diez (10) son Lugares Históricos.** Dichos Sitios Arqueológicos (del periodo Pre-Taíno) presentan cerámica, evidencia de formas de recolección alimenticia y de talleres/artefactos de lítica. Se recalca que ninguno ubica dentro del Perímetro de Estudio (500m) correspondiente al presente estudio.

Durante el **Reconocimiento Preliminar de Campo** no fue posible observar la superficie terrestre que corresponde al área del proyecto propuesto debido a que en gran parte está pavimentada, cementada y con estructuras. Nuestra prospección incluyó toda el área de la Plaza.

XI. Conclusiones

El día 6 de mayo del año en curso llevamos a cabo la prospección en la Plaza de Guánica con el propósito de llevar a cabo la evaluación arqueológica Fase IA, para el propuesto proyecto **Reconstrucción de la Plaza de Guánica**, localizado en el (Barrio) Pueblo del Municipio de Guánica. Mediante estos trabajos fueron consultadas las fuentes primarias arqueológicas e históricas, así como fuentes secundarias, seguidas del correspondiente reconocimiento preliminar de campo.

Durante nuestra prospección de campo no fue posible identificar ningún tipo de evidencia arqueológica. En gran medida se debe a que todo está cubierto de pisos, lozas de hormigón, jardineras y estructuras. Durante los trabajos de construcción, una vez se remuevan estos obstáculos, será posible determinar la presencia o ausencia de evidencias arqueológicas en el subsuelo de la Plaza.

XII. Recomendaciones

Por lo antes concluido, la suscribiente recomienda que se lleve a cabo trabajos de monitoria arqueológica en toda el área del proyecto. Las dos esculturas que ubican en la Plaza, deber ser protegidas durante los procesos de construcción, se recomienda que se someta un plan de protección particularmente para la escultura relacionada con el monumento a los Veteranos, para evitar cualquier daño a las mismas.

Por todo lo antes expuesto, **recomendamos muy respetuosamente a las agencias evaluadoras emitir el endoso favorable correspondiente a la Evaluación Arqueológica Fase 1A, Remodelación da la Plaza de Guánica, en la municipalidad de Guánica, Puerto Rico. Luego de aprobada solicitar la Monitoria Arqueológica.**

XIII. Bibliografía

Coll y Toste, Cayetano	Leyendas Puertorriqueñas (1983).
	Boletín Histórico de Puerto Rico XIII Volumen XIII - XIV, 1919 - 1927.
De Córdova, Pedro Tomás	Memorias Geográficas, Históricas, Económicas y Estadísticas de la Isla de Puerto Rico. Tomo I - II, Instituto de Cultura Puertorriqueña. (1968).
Fernández, de Oviedo Gonzalo	Historia General Natural de las Indias Tomo I -II (1853).
Huerga, Álvaro	Primeros Historiadores de Puerto Rico 1492-1600) Ponce Pontificia Universidad Católica de Puerto Rico (2004).
Iñigo Abbad y Lasierra Fray	Historia Geográfica, Civil y Natural San Juan Bautista de Puerto Rico (1866).
Junta de Planificación	Mapa de Municipios y Barrios Guánica Memoria Núm. 44 (1955).
La Biblioteca Inc.	Pueblos de Puerto Rico Río Piedras, P.R. (1988).
Mijares González Fernando	Noticias particulares de la Isla y Plaza de San Juan Bautista de Puerto Rico- UPR (1954).
Pabón Charneco, Arlene Regis A. Eduardo	Guánica el Origen de su Memoria Oficina Estatal de Conservación Histórica (2022).

Pier Ledrú, André — Viaje a la Isla de Puerto Rico (1797).

Ubeda y Delgado, Manuel — Ducumentalia: Historiografía de Puerto Rico hasta el año 1898.

Informes Arqueológicos:

Camacho Hernández, Raquel,
Sistema de alcantarillado para la comunidad Ensenada Guánica, Puerto Rico, Fase IA, (05-30-02-08).

Curet Salim, Luis Antonio,
Mejoras y Ampliación a la Planta de Tratamiento de Aguas, Fase IA-IB, 1988 (ICP/CAT-GN-88- 01-03).

González Colón, Juan,
Mejoras a la PR-116, Fase IA-IB, 1994 (ICP/CAT-GN-94-01-07).

Maurás Casillas, Adalberto,
Nuevo Centro de Gobierno Municipal, Fase IA-IB, 2004 (ICP/CAT-GN-04-05-01).

Rivera Fontán, Juan A,
Línea de descarga sanitaria y dos estaciones de bombeo de la comunidad Salinas Providencia, Guánica, Puerto Rico, Fase IB, 199 (05- 31-95-01).

Rivera Fontán, Juan A,
Línea de descarga sanitaria y dos estaciones de bombeo de la comunidad Salinas Providencia, Fase IB, 1995 (ICP/CAT-GN-95-02-02).

Rodríguez Miranda, Marisol,
Ensanche P.R. 116, Fase IA-IB, 1997 (ICP/CAT-GN-97-03-03).

Schlafer Román, Ethel V,
Mejoras al Malecón de Guánica, Fase IA, 1995 (ICP/CAT-GN-95-02-05).

Vega, Jesús,
Línea Sanitaria Salinas-Providencia, Fase II, 1998 (ICP/CAT-GN-04-05-03).

Vega, Jesus,
Widening of State Road PR-116, Stage II, 1998 (09-04-97-03).

Archivo General y Biblioteca Nacional de Puerto Rico

Mapoteca
Fotografías
Documentos

Documentos adicionales

Archivo de Cuadrángulos de la OECH/SHPO e ICP-PAE para el Municipio de Guánica.

Análisis Sitios Arqueológicos, Municipio de Guánica.

Inventario de Escuelas Históricas.

Inventario de Ferrocarriles.

Inventario de Haciendas y Centrales Azucareras "Oeste"

Inventario Histórico de Ingeniería

Listado de Informes y Recursos Arqueológicos De OECH/SHPO.

Listado de Estudios y Sitios Arqueológicos ICP-PAE.

Registro Nacional de Lugares Históricos, actualizado en diciembre de 2021.

Sistema de Archivo Digital del ICP-PAE.

Sistema de Archivo Digital de la OECH/SHPO

Soil Survey Lajas Valley, United States Department of Agriculture Soil and Conservation Service, 1965.

Páginas Cibernéticas (Web)

Boricuaonline.com, *https://boricuaonline.com/guanica-pr/*

General Soil Map
1984,https://esdac.jrc.ec.europa.eu/images/Eudasm/latinamerica/images/maps/download/soil_puerto.jpg

Desembarco en Guánica 1898 home.coqui.net/sarrasin/desembarco.guanica.htm

http://portals.jp.pr.gov/SiteDirectory/Calificacion/Calificacion%20Vigente/Guanica/Guanica039.pdf

Junta de Planificación, **Dimensiones de la Isla de Puerto Rico,** 2009, *http://gis.otg.gobierno.pr/PDF_Maps/Dimensiones_PR.pdf*

Mapa de Calificación de Suelos, Plan Territorial Municipio de Guánica, Hoja #39, fecha de vigencia: 2 de junio de 2010,

Mapas de Niveles de Inundación Base Recomendación, panel: 72000C1960J, Fecha de efectividad: 13/abril/2018,

http://gis.jp.pr.gov/AdvisoryMaps/PANEL_72000C1960J.pdf

Nuestropuertorico.com, *http://nuestropuertorico.com/municipalities/en-guanica/*

PuertoRicoPuebloaPueblo.org,*http://puertoricopuebloapueblo.org/guanica/*

Sistemas de Información Geográfica, Área de Tecnología de la Oficina de Gerencia y Presupuesto, Ríos principales de Puerto Rico, *http://gis.otg.gobierno.pr/PDF_Maps/Rios_principales.pdf*

U. S. Geological Survey (USGS), Topoview.Welcome.topuertorico.org, *https://welcome.topuertorico.org/reference/topo.shtml*

ANEJOS

Anexo I –Carta Recomendación OGPe (13 de abril 2023)

Anejo II - Memorial Explicativo
(SOMETIDO POR PROPONENTE)

Anejo III- Planos del Proyecto (Sometido por el Proponente)

ANEJO III – Planos del Malecón de Guánica.

Appendix F: ACBM Inspection Report

ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT

FOR

MR. EDUARDO REGIS

SAMPLING CONDUCTED AT
PLAZA PÚBLICA MANUEL JIMÉNEZ MESA
GUÁNICA, PUERTO RICO

ZEM-22164

AUGUST, 2022

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.995.0005
WWW.ZIMMETRY.COM
INFO@ZIMMETRY.COM

TABLE OF CONTENT

SECTION 1: Executive Summary 1

1.1 Introduction 1

1.2 Summary of Property Evaluation 1

SECTION 2: ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT 2

2.1 Overview of the Evaluation 2

2.2 Conditions and Limitations 2

2.3 Environmental Assessment Report Certification 3

SECTION 3: APPENDICES 4

Appendix A: Certifications, Licenses, and Accreditations 5

SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

An Asbestos Containing Building Materials (ACBM) inspection was conducted on July 28, 2022 at Plaza Pública Manuel Jiménez Mesa in Guánica, Puerto Rico. The asbestos containing building materials sampling was performed to identify material that contains asbestos fibers above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted in the evaluation of the exterior site areas of the aforementioned project. The evaluation found that **no** asbestos containing materials were identified during the inspection of the areas.

SECTION 2: ASBESTOS CONTAINING MATERIALS SURVEY REPORT

2.1 OVERVIEW OF THE EVALUATION

This asbestos containing materials (ACM) survey is an inspection to identify the location of any ACM that exist within. Throughout the inspection no asbestos containing materials were identified at the assessed areas.

The inspection was conducted by the Department of Natural and Environmental Resources (DRNA) of Puerto Rico and United States Environmental Protection Agency (USEPA) accredited Inspectors qualified by experience, education and training in the recognition of potential ACM and approved bulk sampling techniques. Some areas may not have been directly accessible due to the physical hazards encountered within. In these areas, assumptions based on findings in other areas were made whenever possible. These assumptions are duly noted as such in this report.

The inspection was performed in accordance with Environmental Protection Agency recommended procedures found in EPA-450/2-78-014 (Parts I and II), EPA 560/5-85-024, and 40 CFR 763. These procedures call for the visual inspection of the building for suspect friable material and collection and analysis of representative samples of suspect material.

2.2 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner and occupants. The results and opinions in this report, based solely on the conditions found at the project on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential asbestos hazards at this project beyond the date of the evaluation.

The Asbestos Containing Building Materials inspection was performed to ready accessible components and surfaces. If suspected components that could contain asbestos are encountered, they shall be managed as containing asbestos until the appropriate laboratory analysis is performed.

2.3 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on July 28, 2022 by Kimberly Pérez, state-certified inspector ASB-0422-0144-SI, qualified by experience, education and training in the recognition of asbestos containing materials and approved sampling techniques.



Kimberly Pérez Reyes, BSc
Environmental Asbestos Inspector

SECTION 3: APPENDICES

Appendix A: Certifications, Licenses, and Accreditations

APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Kimberly Pérez Reyes

Inspector

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

ASB-0422-0144-SI
Número de Registro

24-abr-2023
Fecha de vencimiento

Firma Autorizada - Departamento Recursos Naturales y Ambientales

LEAD BASED PAINT INSPECTION REPORT

FOR

MR. EDUARDO REGIS

SAMPLING CONDUCTED AT
PLAZA PÚBLICA MANUEL JIMÉNEZ MESA
GUÁNICA, PUERTO RICO

ZEM-22164

AUGUST, 2022

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.995.0005
WWW.ZIMMETRY.COM
INFO@ZIMMETRY.COM

TABLE OF CONTENT

SECTION 1: EXECUTIVE SUMMARY 1

1.1 Introduction 1

1.2 Summary of Property Evaluation 1

1.3 Property Locations of Building Components with Lead Based Paint 1

Table 1-1 Summary of Building Components with Lead Based Paint 2

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT 3

2.1 Overview of the Evaluation 3

2.2 Sampling Procedure 3

2.3 Results Presentation 4

2.3.1 Specific Findings 4

2.3.2 Homogeneous Areas with Special Considerations 4

2.3.3 Inaccessible Areas Presumed to be Lead-Based Painted 4

2.4 Lead Regulatory Levels 4

2.5 Conditions and Limitations 5

2.6 Abatement Conditions 5

2.7 Recommendations 6

2.8 Environmental Assessment Report Certification 6

SECTION 3: APPENDICES 7

Appendix A: XRF Sampling Data 8

Appendix B: Project Photographs 13

Appendix C: Certifications, Licenses, and Accreditations 15

Appendix D: XRF's Performance Characteristics Sheet 17

Appendix E: Location of Positive Materials 21

SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Lead-Based Paint inspection was conducted on July 28, 2022 at Plaza Pública Manuel Jiménez Mesa in Guánica, Puerto Rico. The lead-based paint inspection was performed to identify paint that contains lead above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of the exterior site areas of the aforementioned project. The evaluation found that lead based paint was present in selective components and surfaces through the project on the date of the inspection. Table 1-1 identifies the components positive for lead. Table 2-1 identifies lead-based paint as defined by the U.S. Environmental Protection Agency (EPA) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico. For specific locations and additional detail on the location of lead- reference Sections 2 and 3.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

Table 1-1 summarizes the site components and surfaces coated with lead-based paint. Details that identify positive lead-based paint findings within specific areas and on surfaces were provided in the lead-based paint inspection report. The “substrate” is the building component material directly beneath the painted surface. Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

If homogeneous materials that were not accounted for are identified in areas that are not describe in this report or inaccessible areas described in Section 2.3.3, they shall be managed as containing lead. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed. Refer to Appendix E: Location of Positive Materials for specific location.

Table 1-1: Summary of Components Containing Lead				
Area	**Component**	**Color**	**Substrate**	**Approximate Amount**
Phase 2: Surroundings	Bollards	Yellow	Metal	2 units
	Fire Hydrants	Yellow	Metal	2 units
Phase 1: Fountain Area 3 & Phase 1: Fountain Area 9	Lids	Blue	Metal	3 units

Note:

1. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This lead-based paint inspection is an investigation to identify all lead-based paint on a surface-by-surface basis. A lead-based paint inspection conforming to HUD guidelines was performed at the aforementioned project.

Averages of 219 samples were taken at identified surfaces of the evaluated areas using X-ray fluorescence (XRF) analyzer. The evaluation found that lead-based paint was present in selective components and surfaces through the project on the date of the assessment (See Table 1-1).

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm^2. Such surfaces could create dust-lead or soil-lead hazards if the paint is turned into dust by abrasion, scraping, or sanding. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

Testing was performed by Onell González, state-certified lead inspector LBPW-27021-323, using the Niton XLp-300A XRF, SN-101222. The credentials are provided in Section 3, Appendix C: Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 3, Appendix A: XRF Sampling Data for the detailed analytical testing results for each distinct area inspected. The reports provide a complete testing data.

2.2 SAMPLING PROCEDURE

The Lead Based Paint Sampling Procedure was design to evaluate and document all the data obtained form the inspection in a sequential method that provided confidence at the moment of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico Regulation 9098: Regulation for Proper Management of Lead-Based Paint Activities. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm^2 it is considered negative.

- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm^2 it is considered positive.

To each functional space of the project a name was assigned according to the use of that space. If no name could be assigned then a code letter or number was assigned.

Each wall surface was named with letters beginning with wall A the wall facing the main entrance direction. The wall at your left will be wall B, the wall at front wall C and the wall at you right will be wall D.

2.3 RESULTS PRESENTATION

This section describes the project components and surfaces coated with lead-based paint (LBP), which were observed in the inspection. Please note that the recommendations given are always the minimum action, which in our professional judgment should be taken.

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead based paint, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified as an abatement firm by the DRNA.

2.3.1 SPECIFIC FINDINGS

The following LBP were found to contain more than 1.0 mg/cm^2 for what Department of Natural and Environmental Resources (DRNA) of Puerto Rico identifies as lead-based paint or materials containing lead:

- Bollards
- Lids
- Fire Hydrants

2.3.2 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.3 INACCESSIBLE AREAS PRESUMED TO BE LEAD-BASED PAINTED

NONE

2.4 LEAD REGULATORY LEVELS

The lead regulatory levels provided below are those used when preparing this lead-based paint evaluation or when evaluating data collected. The EPA regulatory levels are the same as the state regulatory levels provided in the following table.

TABLE 2-1: LEAD REGULATORY LEVELS	
	EPA/DRNA Levels
Lead-Based Paint	**1.0 mg/cm^2 or 0.5% by weight (or 5,000 ppm)**

2.5 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this project on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner. The results and opinions in this report, based solely on the conditions found at the project on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this project beyond the date of the evaluation.

The lead inspection was performed to ready accessible components and surfaces. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed.

2.6 ABATEMENT CONDITIONS

Abatement, as defined by HUD and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico, means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must to be trained in accordance with the DRNA licensing/certification requirements. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

- onsite or offsite removal of lead-based paint from substrates and components
- replacement of components or fixtures painted with lead-based paint
- permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate
- encapsulation of lead-based paint with specially designed encapsulant products
- removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards

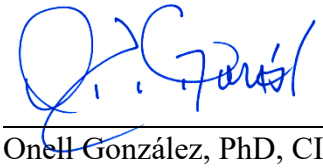
If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

2.7 RECOMMENDATIONS

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead-based paint, the contaminated surfaces or substrates must be abated or removed. The waste generated has to be characterized to determine if the waste generated is hazardous or non-hazardous waste. The firm providing the abatement services must be certified as an abatement firm by the DRNA. Workers conducting abatement must be trained and certified as abatement workers by a training provider accredited by the DRNA.

2.8 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on July 28, 2022 by Onell González, state-certified lead inspector LBPW-27021-323, qualified by experience, education and training in the recognition of lead based paint and approved sampling techniques using the Niton XLp-300A XRF, SN-101222.



Onell González, PhD, CIEC, LEED AP O+M
Senior Industrial Hygienist | Sustainability Expert

SECTION 3: APPENDICES

Appendix A: XRF Sampling Data

Appendix B: Project Photographs

Appendix C: Certifications, Licenses, and Accreditations

Appendix D: XRF's Performance Characteristics Sheet

Appendix E: Location of Positive Materials

APPENDIX A: XRF SAMPLING DATA

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
1	Calibration				1.00		
2	Calibration				1.00		
3	Calibration				1.00		
4	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
5	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
6	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.02	Negative	
7	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	
8	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	
9	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
10	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
11	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	
12	Phase 2: Surroundings	Bollard	Yellow	Metal	1.10	Positive	
13	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
14	Phase 2: Surroundings	Fire Hydrant	Yellow	Metal	1.20	Positive	
15	Phase 2: Surroundings	Bollard	Yellow	Metal	1.30	Positive	
16	Phase 2: Surroundings	Bollard Base	Yellow	Concrete	0.00	Negative	
17	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
18	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
19	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
20	Phase 2: Surroundings	Pedestrian Crossing	Yellow	Concrete	0.00	Negative	
21	Phase 2: Surroundings	Pedestrian Crossing	White	Concrete	0.00	Negative	
22	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
23	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
24	Phase 2: Surroundings	Pedestrian	Yellow	Concrete	0.00	Negative	
25	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
26	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
27	Phase 2: Surroundings	Curb	Blue	Concrete	0.01	Negative	
28	Phase 2: Surroundings	Ramp	Blue	Concrete	0.01	Negative	
29	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
30	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
31	Phase 2: Surroundings	Light Pole Base	Yellow	Metal	0.00	Negative	
32	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
33	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
34	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
35	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
36	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
37	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
38	Phase 2: Surroundings	Floor Line	Yellow	Concrete	0.00	Negative	
39	Phase 2: Surroundings	Fire Hydrant	Yellow	Metal	30.00	Positive	
40	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
41	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
42	Phase 2: Surroundings	Curb	Yellow	Concrete	0.50	Negative	Casa Alcaldia
43	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
44	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	Casa Alcaldia
45	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
46	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	Casa Alcaldia
47	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	Casa Alcaldia
48	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
49	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	Casa Alcaldia
50	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
51	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
52	Phase 2: Surroundings	Curb	White	Concrete	0.01	Negative	
53	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
54	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
55	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
56	Phase 2: Surroundings	Light Pole	Gray	Metal	0.02	Negative	
57	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
58	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	
59	Phase 2: Surroundings	Light Pole	Gray	Metal	0.02	Negative	
60	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
61	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
62	Phase 2: Surroundings	Curb	Blue	Concrete	0.02	Negative	
63	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
64	Phase 2: Surroundings	Ramp	Blue	Concrete	0.02	Negative	
65	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
66	Phase 1: Southwest	Ramp	Blue	Concrete	0.00	Negative	
67	Phase 1: Southwest	Lower Wall	Yellow	Concrete	0.00	Negative	
68	Phase 1: Southwest	Lower Wall	Yellow	Concrete	0.00	Negative	
69	Phase 1: Southwest Area 1	Dike	Yellow	Concrete	0.00	Negative	
70	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.00	Negative	
71	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.01	Negative	
72	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.00	Negative	
73	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.01	Negative	
74	Phase 1: Southwest Area 1	Bollard	Yellow	Concrete	0.00	Negative	
75	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.00	Negative	
76	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
77	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.01	Negative	
78	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.00	Negative	
79	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
80	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.00	Negative	
81	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.02	Negative	
82	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
83	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.01	Negative	
84	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.02	Negative	
85	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
86	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.00	Negative	
87	Phase 1: Southwest Area 1	Light Pole Base	Yellow	Concrete	0.00	Negative	
88	Phase 1: Southwest Area 1	Light Pole Base	Cream	Concrete	0.00	Negative	
89	Phase 1: Southwest Area 1	Wall	Brown	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
90	Phase 1: Southwest Area 1	Column	Black	Metal	0.20	Negative	Kiosko Mexican Grill Ajúa
91	Phase 1: Southwest Area 1	Grille	Black	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
92	Phase 1: Southwest Area 1	Light Pole Base	Yellow	Concrete	0.00	Negative	Kiosko Mexican Grill Ajúa
93	Phase 1: Southwest Area 2	Light Pole Base	Yellow	Concrete	0.00	Negative	
94	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
95	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
96	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
97	Phase 1: Southwest Area 2	Bollard	Yellow	Concrete	0.00	Negative	
98	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
99	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
100	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
101	Phase 1: Southwest Area 2	Bollard	Yellow	Concrete	0.00	Negative	
102	Phase 1: Fountain Area 3	Wall	Blue	Concrete	0.02	Negative	
103	Phase 1: Fountain Area 3	Floor	Blue	Concrete	0.02	Negative	
104	Phase 1: Fountain Area 3	Pole	Blue	Concrete	0.00	Negative	
105	Phase 1: Fountain Area 3	Lid	Blue	Metal	3.80	Positive	
106	Phase 1: Fountain Area 3	Lid	Blue	Metal	3.90	Positive	
107	Phase 1: Fountain Area 3	Floor	Cream	Concrete	0.00	Negative	
108	Phase 1: Northwest Area 4	Ramp	Blue	Concrete	0.00	Negative	
109	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
110	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
111	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
112	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.01	Negative	
113	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
114	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
115	Phase 1: Northwest Area 4	Bollard	Yellow	Concrete	0.00	Negative	
116	Phase 1: Northwest Area 4	Light Pole Base	Yellow	Concrete	0.00	Negative	
117	Phase 1: Northwest Area 4	Light Pole Base	Cream	Concrete	0.01	Negative	
118	Phase 1: Northwest Area 4	Electrical Equipment Base	Yellow	Concrete	0.00	Negative	
119	Phase 1: Northwest Area 4	Electrical Parapet	Yellow	Concrete	0.00	Negative	
120	Phase 1: Northwest Area 4	Electrical Parapet	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
121	Phase 1: Northwest Area 4	Floor Tile	White	Ceramic	0.10	Negative	
122	Phase 1: Northwest Area 4	Floor Tile	White	Ceramic	0.10	Negative	
123	Phase 1: Northwest Area 5	Light Pole Base	Yellow	Concrete	0.00	Negative	
124	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.02	Negative	
125	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
126	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.01	Negative	
127	Phase 1: Northwest Area 5	Bollard	Yellow	Concrete	0.00	Negative	
128	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
129	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
130	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
131	Phase 1: Northwest Area 5	Bollard	Yellow	Concrete	0.00	Negative	
132	Phase 1: Northwest Area 5	Ramp	Blue	Concrete	0.00	Negative	
133	Phase 1: Northwest Area 5	Curb	Blue	Concrete	0.00	Negative	
134	Phase 1: Northwest Area 5	Plant Base	Yellow	Concrete	0.00	Negative	
135	Phase 1: Northwest Area 5	Curb	Yellow	Concrete	0.00	Negative	
136	Phase 1: Stage Platform Area 6	Ramp	Gray	Concrete	0.00	Negative	
137	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.02	Negative	
138	Phase 1: Stage Platform Area 6	Floor	Gray	Concrete	0.00	Negative	
139	Phase 1: Stage Platform Area 6	Column	Cream	Metal	0.00	Negative	
140	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.02	Negative	
141	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.00	Negative	
142	Phase 1: Stage Platform Area 6	Column	White	Metal	0.01	Negative	
143	Phase 1: Stage Platform Area 6	Curb	Cream	Concrete	0.00	Negative	
144	Phase 1: Stage Platform Area 6	Beam	White	Metal	0.00	Negative	
145	Phase 1: Stage Platform Area 6	Beam	White	Metal	0.00	Negative	
146	Phase 1: Stage Platform Area 6	Floor	Gray	Concrete	0.00	Negative	
147	Phase 1: Northeast Area 7	Ramp	Blue	Concrete	0.00	Negative	
148	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
149	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
150	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
151	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.01	Negative	
152	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.02	Negative	
153	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
154	Phase 1: Northeast Area 7	Bollard	Yellow	Concrete	0.00	Negative	
155	Phase 1: Northeast Area 7	Light Pole Base	Yellow	Concrete	0.00	Negative	
156	Phase 1: Northeast Area 7	Light Pole Base	Cream	Concrete	0.00	Negative	
157	Phase 1: Northeast Area 7	Ramp	Blue	Concrete	0.01	Negative	
158	Phase 1: Northeast Area 7	Curb	Blue	Concrete	0.02	Negative	
159	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
160	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
161	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
162	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
163	Phase 1: Northeast Area 7	Light Pole	Gray	Metal	0.00	Negative	
164	Phase 1: Northeast Area 7	Light Pole	Gray	Metal	0.01	Negative	
165	Phase 1: Northeast Area 8	Light Pole Base	Yellow	Concrete	0.00	Negative	
166	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
167	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
168	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
169	Phase 1: Northeast Area 8	Bollard	Yellow	Concrete	0.00	Negative	
170	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
171	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
172	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
173	Phase 1: Northeast Area 8	Bollard	Yellow	Concrete	0.00	Negative	
174	Phase 1: Northeast Area 8	Ramp	Blue	Concrete	0.01	Negative	
175	Phase 1: Northeast Area 8	Curb	Blue	Concrete	0.00	Negative	
176	Phase 1: Northeast Area 8	Plant Base	Yellow	Concrete	0.00	Negative	
177	Phase 1: Northeast Area 8	Curb	Yellow	Concrete	0.00	Negative	
178	Phase 1: Fountain Area 9	Lid	Blue	Metal	1.90	Positive	
179	Phase 1: Southeast Area 10	Ramp	Blue	Concrete	0.00	Negative	
180	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
181	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
182	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
183	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.01	Negative	
184	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
185	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
186	Phase 1: Southeast Area 10	Bollard	Yellow	Concrete	0.00	Negative	
187	Phase 1: Southeast Area 10	Light Pole Base	Yellow	Concrete	0.00	Negative	
188	Phase 1: Southeast Area 10	Light Pole Base	Cream	Concrete	0.00	Negative	
189	Phase 1: Southeast Area 10	Ramp	Blue	Concrete	0.00	Negative	
190	Phase 1: Southeast Area 10	Curb	Blue	Concrete	0.00	Negative	
191	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.02	Negative	
192	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.00	Negative	
193	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.02	Negative	
194	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.00	Negative	
195	Phase 1: Southeast Area 10	Light Pole	Gray	Metal	0.01	Negative	
196	Phase 1: Southeast Area 10	Light Pole	Gray	Metal	0.01	Negative	
197	Phase 1: Southeast Area 11	Light Pole Base	Yellow	Concrete	0.00	Negative	
198	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
199	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
200	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
201	Phase 1: Southeast Area 11	Bollard	Yellow	Concrete	0.01	Negative	
202	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
203	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
204	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.02	Negative	
205	Phase 1: Southeast Area 11	Bollard	Yellow	Concrete	0.02	Negative	
206	Phase 1: Southeast Area 11	Ramp	Blue	Concrete	0.00	Negative	
207	Phase 1: Southeast Area 11	Curb	Blue	Concrete	0.00	Negative	
208	Phase 1: Southeast Area 11	Plant Base	Yellow	Concrete	0.00	Negative	
209	Phase 1: Southeast Area 11	Curb	Yellow	Concrete	0.00	Negative	
210	Phase 1: Southeast Area 11	Wall	Brown	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
211	Phase 1: Southeast Area 11	Column	Black	Metal	0.20	Negative	Kiosko Mexican Grill Ajúa
212	Phase 1: Southeast Area 11	Grille	Black	Metal	0.01	Negative	Kiosko Mexican Grill Ajúa
213	Phase 1: Southeast Area 11	Light Pole Base	Yellow	Concrete	0.00	Negative	Kiosko Mexican Grill Ajúa
214	Phase 1: Southeast Area 11	Curb	Blue	Concrete	0.00	Negative	
215	Phase 1: Southeast Area 11	Ramp	Blue	Concrete	0.02	Negative	
216	Phase 1: Southeast Area 11	Curb	Yellow	Concrete	0.00	Negative	
217	Calibration				1.00		
218	Calibration				1.00		
219	Calibration				1.00		

APPENDIX B: PROJECT PHOTOGRAPHS



Phase 2: Surroundings
Lead based painted metal bollard.



Phase 2: Surroundings
Lead based painted metal fire hydrant & bollard.



Phase 2: Surroundings
Lead based painted metal fire hydrant.



Phase 1: Fountain Area 3
Lead based painted metal lid.

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX B: PROJECT PHOTOGRAPHS



Phase 1: Fountain Area 9
Lead based painted metal lid.

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



CERTIFICACIÓN PLOMO PUERTO RICO

Esta tarjeta autoriza a:

Onell González Martínez

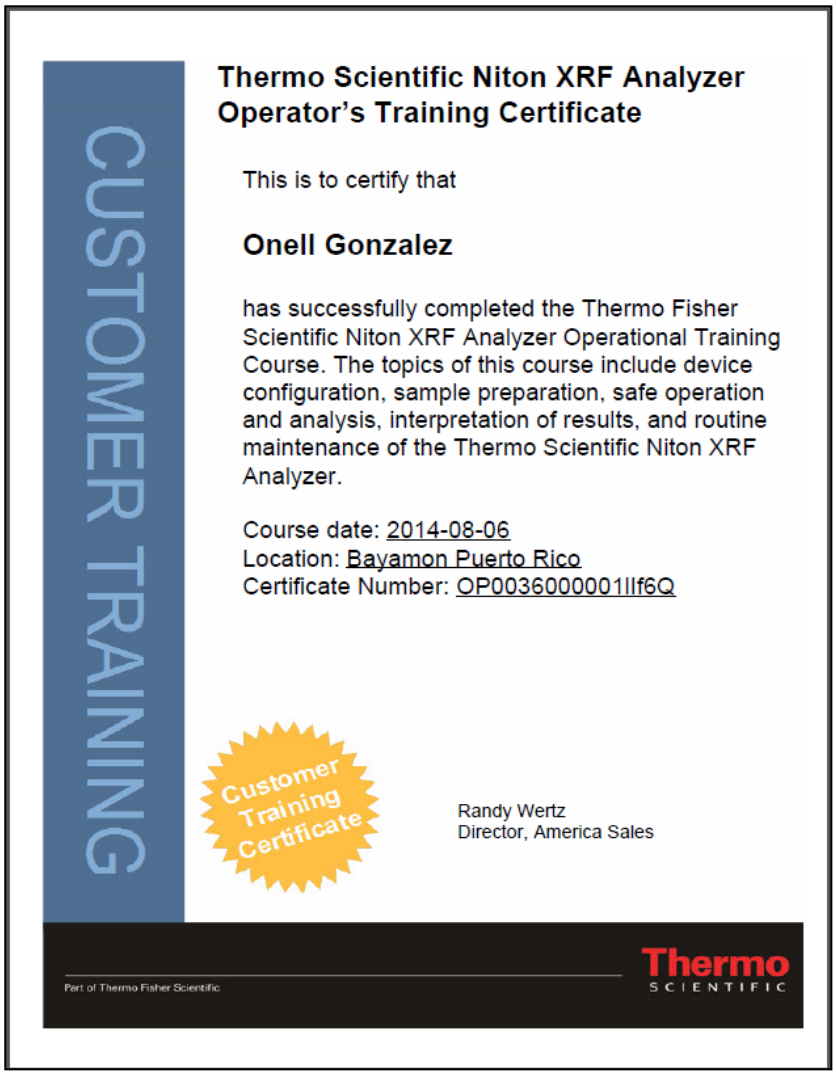
Para realizar actividades relacionadas a Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**

Fecha de Expiración: Octubre 19, 2022

Firma Autorizada
Departamento de Recursos Naturales y Ambientales

Certificación #:
LBPW-27021-323



CUSTOMER TRAINING

Thermo Scientific Niton XRF Analyzer Operator's Training Certificate

This is to certify that

Onell Gonzalez

has successfully completed the Thermo Fisher Scientific Niton XRF Analyzer Operational Training Course. The topics of this course include device configuration, sample preparation, safe operation and analysis, interpretation of results, and routine maintenance of the Thermo Scientific Niton XRF Analyzer.

Course date: 2014-08-06
Location: Bayamon Puerto Rico
Certificate Number: OP0036000001llf6Q

Customer Training Certificate

Randy Wertz
Director, America Sales

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DE RECURSOS NATURALES Y AMBIENTALES

Estimado Sr. Harry Peña:

CERTIFICACIÓN DE INDIVIDUOS

Luego de haber evaluado la solicitud de certificación de empresa para realizar actividades de mitigación de pintura con base de plomo, radicadas bajo la empresa **Zimmetry Environmental Management Corp.** se encontró que las mismas cumplen con los requisitos establecidos en el Capítulo VII, del *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. La certificación otorgada es la siguiente:

D	*Nombre*	*Vigencia de la certificación*		*Núm. De Certificación*
LF	Zimmetry Environmental Management Corp.	Marzo 3, 2022	Marzo 2, 2023	LBPF-05322-012

El certificado está en proceso por lo que este comunicado podrá ser utilizado como evidencia de certificación.

Cualquier duda al respecto, favor comunicarse con esta servidora.

Cordialmente,

Magaly Ríos López
Oficial de Permisos Ambientales II
División de Desperdicios Tóxicos

San José Industrial Park, 1375 Ave Ponce de León, San Juan, PR 00926
787.999.2303 www.drna.pr.gov 787.999.2200

APPENDIX D: XRF's PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

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

MANUFACTURER AND MODEL:

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

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

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

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

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

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

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

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

SUBSTRATE CORRECTION:

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

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

INCONCLUSIVE RANGE OR THRESHOLD:

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

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

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

OPERATING PARAMETERS:

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

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

EVALUATING THE QUALITY OF XRF TESTING:

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

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

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

Compute the Retest Tolerance Limit by the following steps:

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF results.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

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

Testing Times Using K+L Reading Mode (Seconds)

	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

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

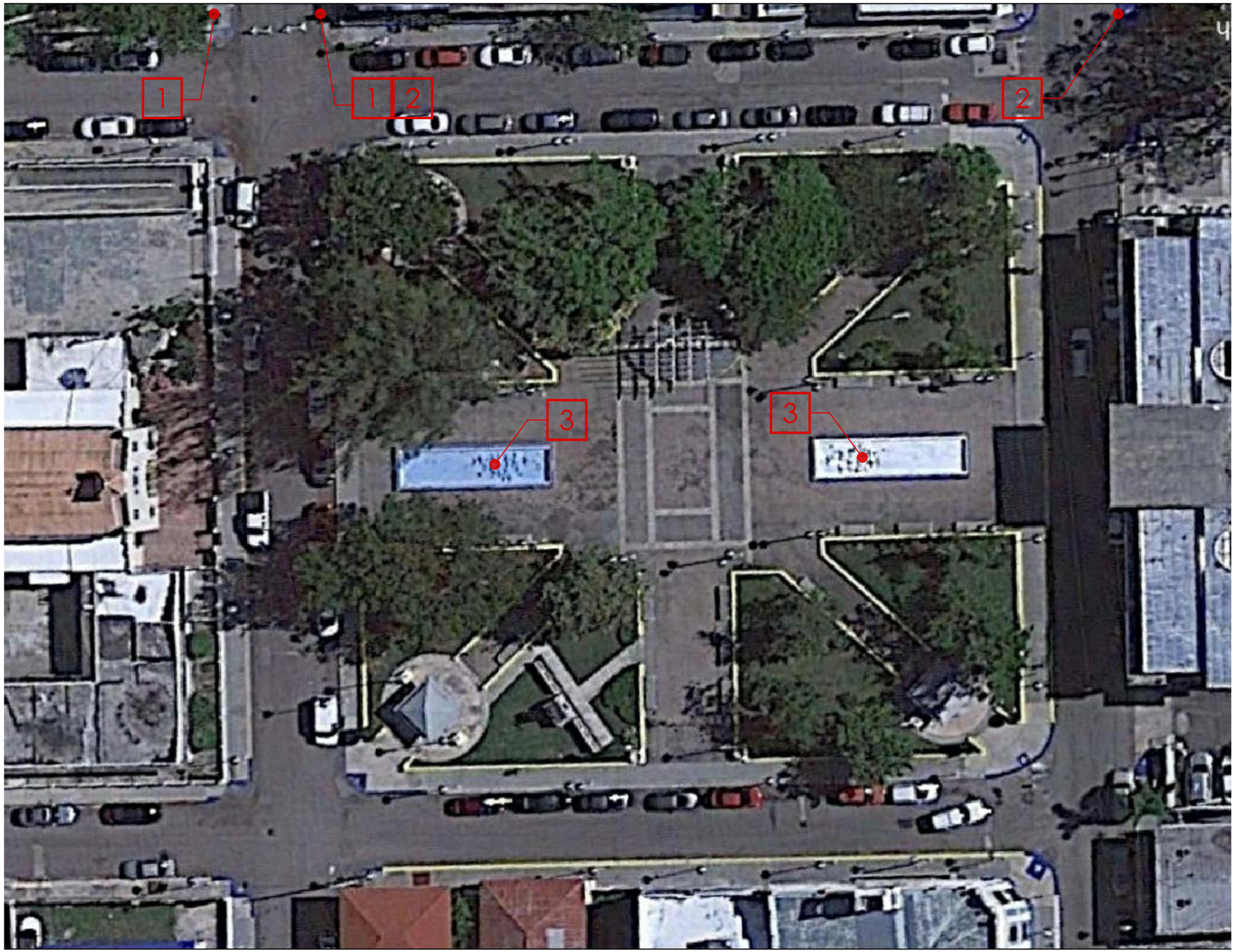
DOCUMENTATION:

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

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

APPENDIX E: LOCATION OF POSITIVE MATERIALS

A



D

B

C

FLOOR PLAN

NTS

Note:

The layout of materials shown in this figure is for illustrative purposes only. For actual location and quantity of materials refer to the Lead Based Paint survey report dated August 2022

Lead Legend:

1. Bollards
2. Fire Hydrants
3. Lids

Zimmetry Environmental

Environmental Building Inspectors

Indoor Environmental Quality / Mold Assessments, Asbestos, Lead Base Paint Consulting – Phone/Fax (787) 995-0005

Project: Plaza Publica Manuel Jiménez Mesa Guanica, PR	
Date: August 2022	Project No. ZEM-22164
Drawing:	

LEAD BASED PAINT INSPECTION REPORT

FOR

MR. EDUARDO REGIS

SAMPLING CONDUCTED AT
PLAZA PÚBLICA MANUEL JIMÉNEZ MESA
GUÁNICA, PUERTO RICO

ZEM-22164

AUGUST, 2022

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.995.0005
WWW.ZIMMETRY.COM
INFO@ZIMMETRY.COM

TABLE OF CONTENT

SECTION 1: EXECUTIVE SUMMARY 1

1.1 Introduction 1

1.2 Summary of Property Evaluation 1

1.3 Property Locations of Building Components with Lead Based Paint 1

Table 1-1 Summary of Building Components with Lead Based Paint 2

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT 3

2.1 Overview of the Evaluation 3

2.2 Sampling Procedure 3

2.3 Results Presentation 4

2.3.1 Specific Findings 4

2.3.2 Homogeneous Areas with Special Considerations 4

2.3.3 Inaccessible Areas Presumed to be Lead-Based Painted 4

2.4 Lead Regulatory Levels 4

2.5 Conditions and Limitations 5

2.6 Abatement Conditions 5

2.7 Recommendations 6

2.8 Environmental Assessment Report Certification 6

SECTION 3: APPENDICES 7

Appendix A: XRF Sampling Data 8

Appendix B: Project Photographs 13

Appendix C: Certifications, Licenses, and Accreditations 15

Appendix D: XRF's Performance Characteristics Sheet 17

Appendix E: Location of Positive Materials 21

SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Lead-Based Paint inspection was conducted on July 28, 2022 at Plaza Pública Manuel Jiménez Mesa in Guánica, Puerto Rico. The lead-based paint inspection was performed to identify paint that contains lead above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of the exterior site areas of the aforementioned project. The evaluation found that lead based paint was present in selective components and surfaces through the project on the date of the inspection. Table 1-1 identifies the components positive for lead. Table 2-1 identifies lead-based paint as defined by the U.S. Environmental Protection Agency (EPA) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico. For specific locations and additional detail on the location of lead- reference Sections 2 and 3.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

Table 1-1 summarizes the site components and surfaces coated with lead-based paint. Details that identify positive lead-based paint findings within specific areas and on surfaces were provided in the lead-based paint inspection report. The “substrate” is the building component material directly beneath the painted surface. Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

If homogeneous materials that were not accounted for are identified in areas that are not describe in this report or inaccessible areas described in Section 2.3.3, they shall be managed as containing lead. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed. Refer to Appendix E: Location of Positive Materials for specific location.

Table 1-1: Summary of Components Containing Lead				
Area	**Component**	**Color**	**Substrate**	**Approximate Amount**
Phase 2: Surroundings	Bollards	Yellow	Metal	2 units
	Fire Hydrants	Yellow	Metal	2 units
Phase 1: Fountain Area 3 & Phase 1: Fountain Area 9	Lids	Blue	Metal	3 units

Note:

1. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This lead-based paint inspection is an investigation to identify all lead-based paint on a surface-by-surface basis. A lead-based paint inspection conforming to HUD guidelines was performed at the aforementioned project.

Averages of 219 samples were taken at identified surfaces of the evaluated areas using X-ray fluorescence (XRF) analyzer. The evaluation found that lead-based paint was present in selective components and surfaces through the project on the date of the assessment (See Table 1-1).

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm^2. Such surfaces could create dust-lead or soil-lead hazards if the paint is turned into dust by abrasion, scraping, or sanding. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

Testing was performed by Onell González, state-certified lead inspector LBPW-27021-323, using the Niton XLp-300A XRF, SN-101222. The credentials are provided in Section 3, Appendix C: Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 3, Appendix A: XRF Sampling Data for the detailed analytical testing results for each distinct area inspected. The reports provide a complete testing data.

2.2 SAMPLING PROCEDURE

The Lead Based Paint Sampling Procedure was design to evaluate and document all the data obtained form the inspection in a sequential method that provided confidence at the moment of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico Regulation 9098: Regulation for Proper Management of Lead-Based Paint Activities. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm^2 it is considered negative.

- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm^2 it is considered positive.

To each functional space of the project a name was assigned according to the use of that space. If no name could be assigned then a code letter or number was assigned.

Each wall surface was named with letters beginning with wall A the wall facing the main entrance direction. The wall at your left will be wall B, the wall at front wall C and the wall at you right will be wall D.

2.3 RESULTS PRESENTATION

This section describes the project components and surfaces coated with lead-based paint (LBP), which were observed in the inspection. Please note that the recommendations given are always the minimum action, which in our professional judgment should be taken.

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead based paint, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified as an abatement firm by the DRNA.

2.3.1 SPECIFIC FINDINGS

The following LBP were found to contain more than 1.0 mg/cm^2 for what Department of Natural and Environmental Resources (DRNA) of Puerto Rico identifies as lead-based paint or materials containing lead:

- Bollards
- Lids
- Fire Hydrants

2.3.2 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.3 INACCESSIBLE AREAS PRESUMED TO BE LEAD-BASED PAINTED

NONE

2.4 LEAD REGULATORY LEVELS

The lead regulatory levels provided below are those used when preparing this lead-based paint evaluation or when evaluating data collected. The EPA regulatory levels are the same as the state regulatory levels provided in the following table.

TABLE 2-1: LEAD REGULATORY LEVELS	
	EPA/DRNA Levels
Lead-Based Paint	**1.0 mg/cm^2 or 0.5% by weight (or 5,000 ppm)**

2.5 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this project on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner. The results and opinions in this report, based solely on the conditions found at the project on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this project beyond the date of the evaluation.

The lead inspection was performed to ready accessible components and surfaces. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed.

2.6 ABATEMENT CONDITIONS

Abatement, as defined by HUD and the Department of Natural and Environmental Resources (DRNA) of Puerto Rico, means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must to be trained in accordance with the DRNA licensing/certification requirements. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

- onsite or offsite removal of lead-based paint from substrates and components
- replacement of components or fixtures painted with lead-based paint
- permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate
- encapsulation of lead-based paint with specially designed encapsulant products
- removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards

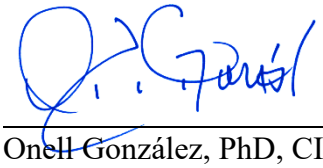
If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

2.7 RECOMMENDATIONS

According to the DRNA lead regulations, prior to the demolishing of a structure containing lead-based paint, the contaminated surfaces or substrates must be abated or removed. The waste generated has to be characterized to determine if the waste generated is hazardous or non-hazardous waste. The firm providing the abatement services must be certified as an abatement firm by the DRNA. Workers conducting abatement must be trained and certified as abatement workers by a training provider accredited by the DRNA.

2.8 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on July 28, 2022 by Onell González, state-certified lead inspector LBPW-27021-323, qualified by experience, education and training in the recognition of lead based paint and approved sampling techniques using the Niton XLp-300A XRF, SN-101222.



Onell González, PhD, CIEC, LEED AP O+M
Senior Industrial Hygienist | Sustainability Expert

SECTION 3: APPENDICES

Appendix A: XRF Sampling Data

Appendix B: Project Photographs

Appendix C: Certifications, Licenses, and Accreditations

Appendix D: XRF's Performance Characteristics Sheet

Appendix E: Location of Positive Materials

APPENDIX A: XRF SAMPLING DATA

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
1	Calibration				1.00		
2	Calibration				1.00		
3	Calibration				1.00		
4	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
5	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
6	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.02	Negative	
7	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	
8	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	
9	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
10	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
11	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	
12	Phase 2: Surroundings	Bollard	Yellow	Metal	1.10	Positive	
13	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
14	Phase 2: Surroundings	Fire Hydrant	Yellow	Metal	1.20	Positive	
15	Phase 2: Surroundings	Bollard	Yellow	Metal	1.30	Positive	
16	Phase 2: Surroundings	Bollard Base	Yellow	Concrete	0.00	Negative	
17	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
18	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
19	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
20	Phase 2: Surroundings	Pedestrian Crossing	Yellow	Concrete	0.00	Negative	
21	Phase 2: Surroundings	Pedestrian Crossing	White	Concrete	0.00	Negative	
22	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
23	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
24	Phase 2: Surroundings	Pedestrian	Yellow	Concrete	0.00	Negative	
25	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
26	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
27	Phase 2: Surroundings	Curb	Blue	Concrete	0.01	Negative	
28	Phase 2: Surroundings	Ramp	Blue	Concrete	0.01	Negative	
29	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
30	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
31	Phase 2: Surroundings	Light Pole Base	Yellow	Metal	0.00	Negative	
32	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
33	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
34	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
35	Phase 2: Surroundings	Pedestrian	White	Concrete	0.00	Negative	
36	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
37	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
38	Phase 2: Surroundings	Floor Line	Yellow	Concrete	0.00	Negative	
39	Phase 2: Surroundings	Fire Hydrant	Yellow	Metal	30.00	Positive	
40	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
41	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
42	Phase 2: Surroundings	Curb	Yellow	Concrete	0.50	Negative	Casa Alcaldia
43	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
44	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	Casa Alcaldia
45	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
46	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	Casa Alcaldia
47	Phase 2: Surroundings	Light Pole	Gray	Metal	0.00	Negative	Casa Alcaldia
48	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	Casa Alcaldia
49	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	Casa Alcaldia
50	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
51	Phase 2: Surroundings	Curb	White	Concrete	0.00	Negative	
52	Phase 2: Surroundings	Curb	White	Concrete	0.01	Negative	
53	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
54	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
55	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
56	Phase 2: Surroundings	Light Pole	Gray	Metal	0.02	Negative	
57	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	
58	Phase 2: Surroundings	Curb	Yellow	Concrete	0.01	Negative	
59	Phase 2: Surroundings	Light Pole	Gray	Metal	0.02	Negative	
60	Phase 2: Surroundings	Curb	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
61	Phase 2: Surroundings	Ramp	Yellow	Concrete	0.00	Negative	
62	Phase 2: Surroundings	Curb	Blue	Concrete	0.02	Negative	
63	Phase 2: Surroundings	Ramp	Blue	Concrete	0.00	Negative	
64	Phase 2: Surroundings	Ramp	Blue	Concrete	0.02	Negative	
65	Phase 2: Surroundings	Curb	Blue	Concrete	0.00	Negative	
66	Phase 1: Southwest	Ramp	Blue	Concrete	0.00	Negative	
67	Phase 1: Southwest	Lower Wall	Yellow	Concrete	0.00	Negative	
68	Phase 1: Southwest	Lower Wall	Yellow	Concrete	0.00	Negative	
69	Phase 1: Southwest Area 1	Dike	Yellow	Concrete	0.00	Negative	
70	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.00	Negative	
71	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.01	Negative	
72	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.00	Negative	
73	Phase 1: Southwest Area 1	Lower Wall	Yellow	Concrete	0.01	Negative	
74	Phase 1: Southwest Area 1	Bollard	Yellow	Concrete	0.00	Negative	
75	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.00	Negative	
76	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
77	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.01	Negative	
78	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.00	Negative	
79	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
80	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.00	Negative	
81	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.02	Negative	
82	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
83	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.01	Negative	
84	Phase 1: Southwest Area 1	Wall Mechanical Room	Yellow	Concrete	0.02	Negative	
85	Phase 1: Southwest Area 1	Fascia	Cream	Concrete	0.00	Negative	
86	Phase 1: Southwest Area 1	Soffit	Cream	Concrete	0.00	Negative	
87	Phase 1: Southwest Area 1	Light Pole Base	Yellow	Concrete	0.00	Negative	
88	Phase 1: Southwest Area 1	Light Pole Base	Cream	Concrete	0.00	Negative	
89	Phase 1: Southwest Area 1	Wall	Brown	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
90	Phase 1: Southwest Area 1	Column	Black	Metal	0.20	Negative	Kiosko Mexican Grill Ajúa
91	Phase 1: Southwest Area 1	Grille	Black	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
92	Phase 1: Southwest Area 1	Light Pole Base	Yellow	Concrete	0.00	Negative	Kiosko Mexican Grill Ajúa
93	Phase 1: Southwest Area 2	Light Pole Base	Yellow	Concrete	0.00	Negative	
94	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
95	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
96	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
97	Phase 1: Southwest Area 2	Bollard	Yellow	Concrete	0.00	Negative	
98	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
99	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
100	Phase 1: Southwest Area 2	Lower Wall	Yellow	Concrete	0.00	Negative	
101	Phase 1: Southwest Area 2	Bollard	Yellow	Concrete	0.00	Negative	
102	Phase 1: Fountain Area 3	Wall	Blue	Concrete	0.02	Negative	
103	Phase 1: Fountain Area 3	Floor	Blue	Concrete	0.02	Negative	
104	Phase 1: Fountain Area 3	Pole	Blue	Concrete	0.00	Negative	
105	Phase 1: Fountain Area 3	Lid	Blue	Metal	3.80	Positive	
106	Phase 1: Fountain Area 3	Lid	Blue	Metal	3.90	Positive	
107	Phase 1: Fountain Area 3	Floor	Cream	Concrete	0.00	Negative	
108	Phase 1: Northwest Area 4	Ramp	Blue	Concrete	0.00	Negative	
109	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
110	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
111	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
112	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.01	Negative	
113	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
114	Phase 1: Northwest Area 4	Lower Wall	Yellow	Concrete	0.00	Negative	
115	Phase 1: Northwest Area 4	Bollard	Yellow	Concrete	0.00	Negative	
116	Phase 1: Northwest Area 4	Light Pole Base	Yellow	Concrete	0.00	Negative	
117	Phase 1: Northwest Area 4	Light Pole Base	Cream	Concrete	0.01	Negative	
118	Phase 1: Northwest Area 4	Electrical Equipment Base	Yellow	Concrete	0.00	Negative	
119	Phase 1: Northwest Area 4	Electrical Parapet	Yellow	Concrete	0.00	Negative	
120	Phase 1: Northwest Area 4	Electrical Parapet	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
121	Phase 1: Northwest Area 4	Floor Tile	White	Ceramic	0.10	Negative	
122	Phase 1: Northwest Area 4	Floor Tile	White	Ceramic	0.10	Negative	
123	Phase 1: Northwest Area 5	Light Pole Base	Yellow	Concrete	0.00	Negative	
124	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.02	Negative	
125	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
126	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.01	Negative	
127	Phase 1: Northwest Area 5	Bollard	Yellow	Concrete	0.00	Negative	
128	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
129	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
130	Phase 1: Northwest Area 5	Lower Wall	Yellow	Concrete	0.00	Negative	
131	Phase 1: Northwest Area 5	Bollard	Yellow	Concrete	0.00	Negative	
132	Phase 1: Northwest Area 5	Ramp	Blue	Concrete	0.00	Negative	
133	Phase 1: Northwest Area 5	Curb	Blue	Concrete	0.00	Negative	
134	Phase 1: Northwest Area 5	Plant Base	Yellow	Concrete	0.00	Negative	
135	Phase 1: Northwest Area 5	Curb	Yellow	Concrete	0.00	Negative	
136	Phase 1: Stage Platform Area 6	Ramp	Gray	Concrete	0.00	Negative	
137	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.02	Negative	
138	Phase 1: Stage Platform Area 6	Floor	Gray	Concrete	0.00	Negative	
139	Phase 1: Stage Platform Area 6	Column	Cream	Metal	0.00	Negative	
140	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.02	Negative	
141	Phase 1: Stage Platform Area 6	Lower Wall	Yellow	Concrete	0.00	Negative	
142	Phase 1: Stage Platform Area 6	Column	White	Metal	0.01	Negative	
143	Phase 1: Stage Platform Area 6	Curb	Cream	Concrete	0.00	Negative	
144	Phase 1: Stage Platform Area 6	Beam	White	Metal	0.00	Negative	
145	Phase 1: Stage Platform Area 6	Beam	White	Metal	0.00	Negative	
146	Phase 1: Stage Platform Area 6	Floor	Gray	Concrete	0.00	Negative	
147	Phase 1: Northeast Area 7	Ramp	Blue	Concrete	0.00	Negative	
148	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
149	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
150	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
151	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.01	Negative	
152	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.02	Negative	
153	Phase 1: Northeast Area 7	Lower Wall	Yellow	Concrete	0.00	Negative	
154	Phase 1: Northeast Area 7	Bollard	Yellow	Concrete	0.00	Negative	
155	Phase 1: Northeast Area 7	Light Pole Base	Yellow	Concrete	0.00	Negative	
156	Phase 1: Northeast Area 7	Light Pole Base	Cream	Concrete	0.00	Negative	
157	Phase 1: Northeast Area 7	Ramp	Blue	Concrete	0.01	Negative	
158	Phase 1: Northeast Area 7	Curb	Blue	Concrete	0.02	Negative	
159	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
160	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
161	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
162	Phase 1: Northeast Area 7	Curb	Yellow	Concrete	0.00	Negative	
163	Phase 1: Northeast Area 7	Light Pole	Gray	Metal	0.00	Negative	
164	Phase 1: Northeast Area 7	Light Pole	Gray	Metal	0.01	Negative	
165	Phase 1: Northeast Area 8	Light Pole Base	Yellow	Concrete	0.00	Negative	
166	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
167	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
168	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
169	Phase 1: Northeast Area 8	Bollard	Yellow	Concrete	0.00	Negative	
170	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
171	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
172	Phase 1: Northeast Area 8	Lower Wall	Yellow	Concrete	0.00	Negative	
173	Phase 1: Northeast Area 8	Bollard	Yellow	Concrete	0.00	Negative	
174	Phase 1: Northeast Area 8	Ramp	Blue	Concrete	0.01	Negative	
175	Phase 1: Northeast Area 8	Curb	Blue	Concrete	0.00	Negative	
176	Phase 1: Northeast Area 8	Plant Base	Yellow	Concrete	0.00	Negative	
177	Phase 1: Northeast Area 8	Curb	Yellow	Concrete	0.00	Negative	
178	Phase 1: Fountain Area 9	Lid	Blue	Metal	1.90	Positive	
179	Phase 1: Southeast Area 10	Ramp	Blue	Concrete	0.00	Negative	
180	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	

PROJECT:	Plaza Pública Manuel Jiménez Mesa, Guánica, PR			CLIENT: Eduardo Regis			
DATE:	7/28/2022			LBP Inspector: Onell González			
Sample ID.	Functional Space	Location	Color	Subst.	XRF Reading	Pos/Neg	Comments
181	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
182	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
183	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.01	Negative	
184	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
185	Phase 1: Southeast Area 10	Lower Wall	Yellow	Concrete	0.00	Negative	
186	Phase 1: Southeast Area 10	Bollard	Yellow	Concrete	0.00	Negative	
187	Phase 1: Southeast Area 10	Light Pole Base	Yellow	Concrete	0.00	Negative	
188	Phase 1: Southeast Area 10	Light Pole Base	Cream	Concrete	0.00	Negative	
189	Phase 1: Southeast Area 10	Ramp	Blue	Concrete	0.00	Negative	
190	Phase 1: Southeast Area 10	Curb	Blue	Concrete	0.00	Negative	
191	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.02	Negative	
192	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.00	Negative	
193	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.02	Negative	
194	Phase 1: Southeast Area 10	Curb	Yellow	Concrete	0.00	Negative	
195	Phase 1: Southeast Area 10	Light Pole	Gray	Metal	0.01	Negative	
196	Phase 1: Southeast Area 10	Light Pole	Gray	Metal	0.01	Negative	
197	Phase 1: Southeast Area 11	Light Pole Base	Yellow	Concrete	0.00	Negative	
198	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
199	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
200	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
201	Phase 1: Southeast Area 11	Bollard	Yellow	Concrete	0.01	Negative	
202	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
203	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.00	Negative	
204	Phase 1: Southeast Area 11	Lower Wall	Yellow	Concrete	0.02	Negative	
205	Phase 1: Southeast Area 11	Bollard	Yellow	Concrete	0.02	Negative	
206	Phase 1: Southeast Area 11	Ramp	Blue	Concrete	0.00	Negative	
207	Phase 1: Southeast Area 11	Curb	Blue	Concrete	0.00	Negative	
208	Phase 1: Southeast Area 11	Plant Base	Yellow	Concrete	0.00	Negative	
209	Phase 1: Southeast Area 11	Curb	Yellow	Concrete	0.00	Negative	
210	Phase 1: Southeast Area 11	Wall	Brown	Metal	0.00	Negative	Kiosko Mexican Grill Ajúa
211	Phase 1: Southeast Area 11	Column	Black	Metal	0.20	Negative	Kiosko Mexican Grill Ajúa
212	Phase 1: Southeast Area 11	Grille	Black	Metal	0.01	Negative	Kiosko Mexican Grill Ajúa
213	Phase 1: Southeast Area 11	Light Pole Base	Yellow	Concrete	0.00	Negative	Kiosko Mexican Grill Ajúa
214	Phase 1: Southeast Area 11	Curb	Blue	Concrete	0.00	Negative	
215	Phase 1: Southeast Area 11	Ramp	Blue	Concrete	0.02	Negative	
216	Phase 1: Southeast Area 11	Curb	Yellow	Concrete	0.00	Negative	
217	Calibration				1.00		
218	Calibration				1.00		
219	Calibration				1.00		

APPENDIX B: PROJECT PHOTOGRAPHS



Phase 2: Surroundings
Lead based painted metal bollard.



Phase 2: Surroundings
Lead based painted metal fire hydrant & bollard.



Phase 2: Surroundings
Lead based painted metal fire hydrant.



Phase 1: Fountain Area 3
Lead based painted metal lid.

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX B: PROJECT PHOTOGRAPHS



Phase 1: Fountain Area 9
Lead based painted metal lid.

Photographic documentation is for reference purposes and doesn't necessarily include all the surfaces with lead based paint and/or components containing lead

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



CERTIFICACIÓN PLOMO PUERTO RICO

Esta tarjeta autoriza a:

Onell González Martínez

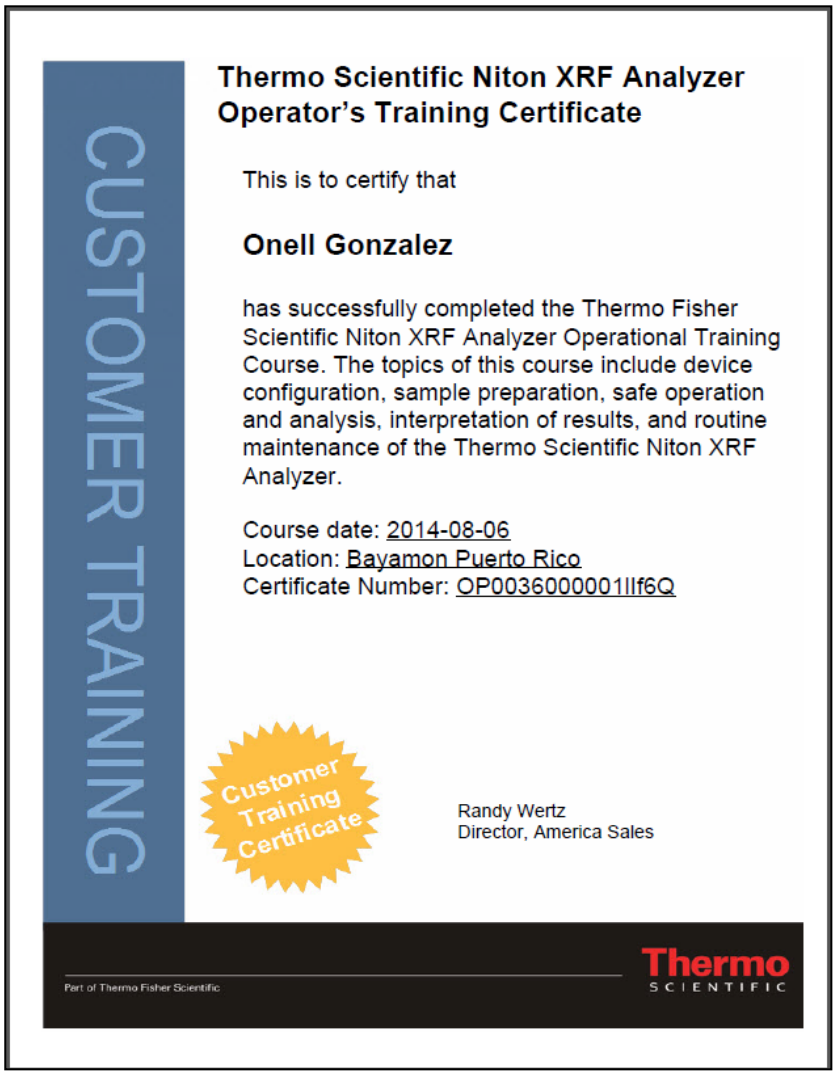
Para realizar actividades relacionadas a Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**

Fecha de Expiración: Octubre 19, 2022

Firma Autorizada
Departamento de Recursos Naturales y Ambientales

Certificación #:
LBPW-27021-323



CUSTOMER TRAINING

Thermo Scientific Niton XRF Analyzer Operator's Training Certificate

This is to certify that

Onell Gonzalez

has successfully completed the Thermo Fisher Scientific Niton XRF Analyzer Operational Training Course. The topics of this course include device configuration, sample preparation, safe operation and analysis, interpretation of results, and routine maintenance of the Thermo Scientific Niton XRF Analyzer.

Course date: 2014-08-06
Location: Bayamon Puerto Rico
Certificate Number: OP0036000001llf6Q

Customer Training Certificate

Randy Wertz
Director, America Sales

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

APPENDIX C: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DE RECURSOS NATURALES Y AMBIENTALES

Estimado Sr. Harry Peña:

CERTIFICACIÓN DE INDIVIDUOS

Luego de haber evaluado la solicitud de certificación de empresa para realizar actividades de mitigación de pintura con base de plomo, radicadas bajo la empresa **Zimmetry Environmental Management Corp.** se encontró que las mismas cumplen con los requisitos establecidos en el Capítulo VII, del *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. La certificación otorgada es la siguiente:

D	*Nombre*	*Vigencia de la certificación*		*Núm. De Certificación*
LF	Zimmetry Environmental Management Corp.	Marzo 3, 2022	Marzo 2, 2023	LBPF-05322-012

El certificado está en proceso por lo que este comunicado podrá ser utilizado como evidencia de certificación.

Cualquier duda al respecto, favor comunicarse con esta servidora.

Cordialmente,

Magaly Ríos López
Oficial de Permisos Ambientales II
División de Desperdicios Tóxicos

San José Industrial Park, 1375 Ave Ponce de León, San Juan, PR 00926
787.999.2303 www.drna.pr.gov 787.999.2200

APPENDIX D: XRF's PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

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

MANUFACTURER AND MODEL:

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

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

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

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

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

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

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

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

SUBSTRATE CORRECTION:

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

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

INCONCLUSIVE RANGE OR THRESHOLD:

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

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

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

OPERATING PARAMETERS:

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

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

EVALUATING THE QUALITY OF XRF TESTING:

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

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

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

Compute the Retest Tolerance Limit by the following steps:

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF results.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

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

Testing Times Using K+L Reading Mode (Seconds)

	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

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

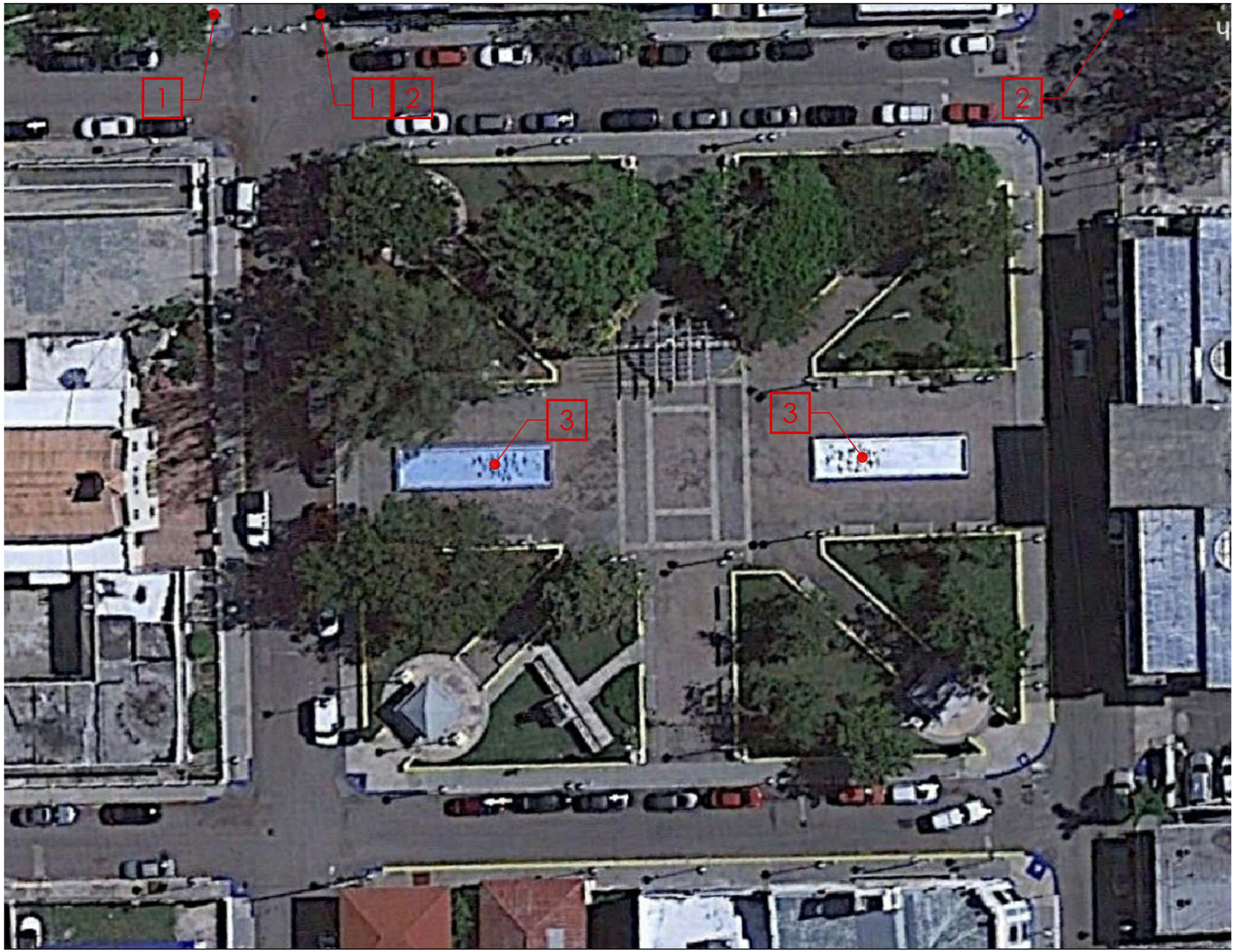
DOCUMENTATION:

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

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

APPENDIX E: LOCATION OF POSITIVE MATERIALS

A



D

B

C

FLOOR PLAN

NTS

Note:

The layout of materials shown in this figure is for illustrative purposes only. For actual location and quantity of materials refer to the Lead Based Paint survey report dated August 2022

Lead Legend:

1. Bollards
2. Fire Hydrants
3. Lids

Zimmetry Environmental

Environmental Building Inspectors

Indoor Environmental Quality / Mold Assessments, Asbestos, Lead Base Paint Consulting – Phone/Fax (787) 995-0005

Project: Plaza Publica Manuel Jiménez Mesa Guanica, PR	
Date: August 2022	Project No. ZEM-22164
Drawing:	

Appendix G: NEPAssist Reports/Memorandum to File

NEPAssist Report

Plaza Manuel Jiménez Mesa

A3 Landscape



April 1, 2024

Toxic Releases (TRI)
Water Dischargers (NPDES)
Water Dischargers (NPDES)
Air Pollution (ICIS-AIR)
Superfund (NPL)
Hazardous Waste (RCRAInfo)
Project Buffer
Plaza Manuel Jiménez Mesa
Search Result (point)

1:8,313

0 0.1 0.2 0.4 mi
0 0.15 0.3 0.6 km

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

Input Coordinates: 17.972669,-66.908108,17.972628,-66.907577,17.972154,-66.907609,17.972195,-66.908177,17.972669,-66.908108	
Project Area	0.00 sq mi
Within 3000 feet of an Ozone 1-hr (1979 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (1997 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of an Ozone 8-hr (2015 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Lead (2008 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a SO2 1-hr (2010 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 24hr (2006 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (1997 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM2.5 Annual (2012 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a PM10 (1987 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a CO Annual (1971 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a NO2 Annual (1971 standard) Non-Attainment/Maintenance Area?	no
Within 3000 feet of a Federal Land?	no
Within 3000 feet of an impaired stream?	no
Within 3000 feet of an impaired waterbody?	yes
Within 3000 feet of a waterbody?	yes
Within 3000 feet of a stream?	yes
Within 3000 feet of an NWI wetland?	Available Online
Within 3000 feet of a Brownfields site?	no

Within 3000 feet of a Superfund site?	yes
Within 3000 feet of a Toxic Release Inventory (TRI) site?	yes
Within 3000 feet of a water discharger (NPDES)?	yes
Within 3000 feet of a hazardous waste (RCRA) facility?	yes
Within 3000 feet of an air emission facility?	yes
Within 3000 feet of a school?	no
Within 3000 feet of an airport?	no
Within 3000 feet of a hospital?	no
Within 3000 feet of a designated sole source aquifer?	no
Within 3000 feet of a historic property on the National Register of Historic Places?	yes
Within 3000 feet of a Land Cession Boundary?	no
Within 3000 feet of a tribal area (lower 48 states)?	no
Within 3000 feet of the service area of a mitigation or conservation bank?	no
Within 3000 feet of the service area of an In-Lieu-Fee Program?	no
Within 3000 feet of a Public Property Boundary of the Formerly Used Defense Sites?	no
Within 3000 feet of a Munitions Response Site?	no
Within 3000 feet of an Essential Fish Habitat (EFH)?	yes
Within 3000 feet of a Habitat Area of Particular Concern (HAPC)?	yes
Within 3000 feet of an EFH Area Protected from Fishing (EFHA)?	yes
Within 3000 feet of a Bureau of Land Management Area of Critical Environmental Concern?	no
Within 3000 feet of an ESA-designated Critical Habitat Area per U.S. Fish & Wildlife Service?	yes
Within 3000 feet of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

Created on: 4/1/2024 4:20:33 PM

Detailed Facility Report

Facility Summary

PUERTO RICO IND DEV CO

RD 333 KM 0.2, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110007802949

EPA Region: 02

Latitude: 17.977595

Longitude: -66.903855

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, (PR0000287284)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110007802949					N	17.977595	-66.903855
RCRAInfo	RCRA	PR0000287284	Other	Inactive ( )			N	17.977595	-66.903855

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007802949	PUERTO RICO IND DEV CO	RD 333 KM 0.2, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PR0000287284	PUERTO RICO IND DEV CO	RD 333 KM 0.2, GUANICA, PR 00653	Guánica 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	PR0000287284	No	03/30/2024	0	03/29/2024

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: PR0000287284)		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

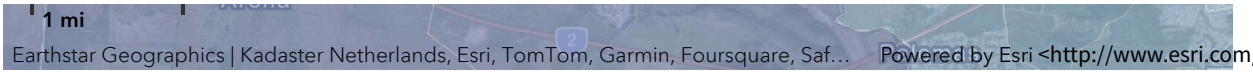
Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559611001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**3**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	6
Air Toxics Cancer Risk	18	56
Air Toxics Respiratory Hazard Index	15	41
Toxic Releases to Air	62	! 81
Traffic Proximity	70	! 99
Lead Paint	0	! 96
Risk Management Plan (RMP) Facility Proximity	64	72
Hazardous Waste Proximity	69	! 87
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 82	! 99
Wastewater Discharge	! 96	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	5,631
Population Density	1,820/sq.mi.
Housing Units in Area	2,786

General Statistics (ACS (American Community Survey))	
Total Persons	4,125
Percent People of Color	100%
Households in Area	1,648
Households on Public Assistance	177
Persons With Low Income	3,788
Percent With Low Income	92%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.977595
Center Longitude	-66.903855
Land Area	99%
Water Area	1%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,122 (68.08%)
$15,000 - $25,000	259 (15.72%)
$25,000 - $50,000	194 (11.77%)
$50,000 - $75,000	66 (4%)
Greater than $75,000	7 (.42%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	375 (7%)
Minors 17 years and younger	1,437 (26%)
Adults 18 years and older	4,193 (74%)
Seniors 65 years and older	916 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	4,291 (76%)
African-American	520 (9%)
Hispanic-Origin	5,596 (99%)
Asian/Pacific Islander	5 (0%)
American Indian	20 (0%)
Other/Multiracial	794 (14%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	400 (13.73%)
9th through 12th Grade	296 (10.16%)
High School Diploma	1,285 (44.11%)
Some College/2-year	200 (6.87%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	401 (13.77%)

Detailed Facility Report

Facility Summary

DEPT OF ED - AUREA E QUILES CLAUDIO

HWY 333 KM 0.5, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110007803001

EPA Region: 02

Latitude: 17.974884

Longitude: -66.904018

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, (PR0000339986)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110007803001					N	17.974884	-66.904018
RCRAInfo	RCRA	PR0000339986	Other	Inactive ( )			N	17.974884	-66.904018

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007803001	DEPT OF ED - AUREA E QUILES CLAUDIO	HWY 333 KM 0.5, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PR0000339986	DEPT OF ED - AUREA E QUILES CLAUDIO	HWY 333 KM 0.5, GUANICA, PR 00653	Guánica 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	PR0000339986	No	03/30/2024	0	03/29/2024

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: PR0000339986)		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

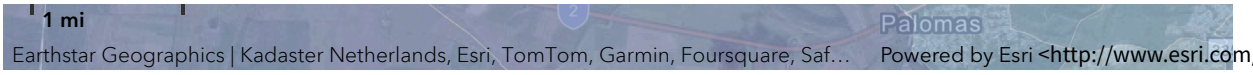
Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559611001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**3**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	6
Air Toxics Cancer Risk	18	56
Air Toxics Respiratory Hazard Index	15	41
Toxic Releases to Air	62	! 81
Traffic Proximity	70	! 99
Lead Paint	0	! 96
Risk Management Plan (RMP) Facility Proximity	64	72
Hazardous Waste Proximity	69	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 82	! 99
Wastewater Discharge	! 96	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	5,414
Population Density	1,811/sq.mi.
Housing Units in Area	2,688

General Statistics (ACS (American Community Survey))	
Total Persons	4,032
Percent People of Color	100%
Households in Area	1,623
Households on Public Assistance	167
Persons With Low Income	3,671
Percent With Low Income	91%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.974884
Center Longitude	-66.904018
Land Area	97%
Water Area	3%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,086 (67%)
$15,000 - $25,000	262 (16.16%)
$25,000 - $50,000	194 (11.97%)
$50,000 - $75,000	70 (4.32%)
Greater than $75,000	9 (.56%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	360 (7%)
Minors 17 years and younger	1,391 (26%)
Adults 18 years and older	4,024 (74%)
Seniors 65 years and older	889 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	4,115 (76%)
African-American	500 (9%)
Hispanic-Origin	5,380 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	18 (0%)
Other/Multiracial	775 (14%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	383 (13.37%)
9th through 12th Grade	303 (10.58%)
High School Diploma	1,247 (43.53%)
Some College/2-year	207 (7.23%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	396 (13.82%)

Detailed Facility Report

Facility Summary

PR PUBLIC HOUSING - LUIS MUNOZ RIVERA

25 JULY ST BETW RODRIGUES, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110013292613

EPA Region: 02

Latitude: 17.974462

Longitude: -66.908655

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000015131)

Safe Drinking Water Act (SDWA): 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		110013292613					N	17.974462	-66.908655
RCRAInfo	RCRA	PRR000015131	VSQG	Active (H)			N	17.974462	-66.908655

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110013292613	PR PUBLIC HOUSING - LUIS MUNOZ RIVERA	25 JULY ST BETW RODRIGUES, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRR000015131	PR PUBLIC HOUSING - LUIS MUNOZ RIVERA	25 JULY ST BETW RODRIGUES, GUANICA, PR 00653	Guánica 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	PRR000015131	No	03/30/2024	0	03/29/2024

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: PRR000015131)		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

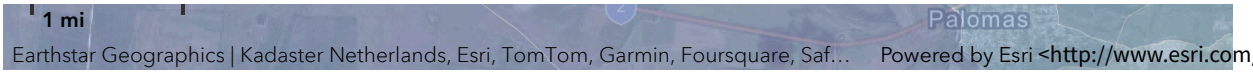
Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559613002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	4	6
Air Toxics Cancer Risk	16	56
Air Toxics Respiratory Hazard Index	14	41
Toxic Releases to Air	59	! 81
Traffic Proximity	! 96	! 99
Lead Paint	! 85	! 96
Risk Management Plan (RMP) Facility Proximity	52	72
Hazardous Waste Proximity	59	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 94	! 99
Wastewater Discharge	! 99	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	5,242
Population Density	1,884/sq.mi.
Housing Units in Area	2,585

General Statistics (ACS (American Community Survey))	
Total Persons	4,140
Percent People of Color	100%
Households in Area	1,680
Households on Public Assistance	175
Persons With Low Income	3,755
Percent With Low Income	91%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.974462
Center Longitude	-66.908655
Land Area	90%
Water Area	10%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,124 (66.9%)
$15,000 - $25,000	285 (16.96%)
$25,000 - $50,000	180 (10.71%)
$50,000 - $75,000	75 (4.46%)
Greater than $75,000	16 (.95%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	360 (7%)
Minors 17 years and younger	1,365 (26%)
Adults 18 years and older	3,877 (74%)
Seniors 65 years and older	848 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	4,003 (76%)
African-American	471 (9%)
Hispanic-Origin	5,212 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	16 (0%)
Other/Multiracial	747 (14%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	396 (13.4%)
9th through 12th Grade	302 (10.22%)
High School Diploma	1,286 (43.52%)
Some College/2-year	222 (7.51%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	416 (14.08%)

Detailed Facility Report

Facility Summary

ESCUELA FRANKLIN D ROOSEVELT

13 DE MARZO, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110006433715

EPA Region: 02

Latitude: 17.97141

Longitude: -66.906586

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, (PRD987378627)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110006433715					N	17.97141	-66.906586
RCRAInfo	RCRA	PRD987378627	Other	Inactive ( )			N	17.97141	-66.906586

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110006433715	ESCUELA FRANKLIN D ROOSEVELT	13 DE MARZO, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRD987378627	ESCUELA FRANKLIN D ROOSEVELT	13 DE MARZO, GUANICA, PR 00753	Guánica 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	PRD987378627	No	03/30/2024	0	03/29/2024

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: PRD987378627)		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

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559613001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	6	6
Air Toxics Cancer Risk	29	56
Air Toxics Respiratory Hazard Index	22	41
Toxic Releases to Air	76	! 81
Traffic Proximity	! 99	! 99
Lead Paint	! 91	! 96
Risk Management Plan (RMP) Facility Proximity	69	72
Hazardous Waste Proximity	76	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 99	! 99
Wastewater Discharge	! 99	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group

100 mi

Earthstar Geographics | U.S. Environmental Protection Agency

Powered by Esri <http://www.esri.com/>

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	4,813
Population Density	1,785/sq.mi.
Housing Units in Area	2,407

General Statistics (ACS (American Community Survey))	
Total Persons	3,880
Percent People of Color	100%
Households in Area	1,575
Households on Public Assistance	160
Persons With Low Income	3,501
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.97141
Center Longitude	-66.906586
Land Area	86%
Water Area	14%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,041 (66.05%)
$15,000 - $25,000	269 (17.07%)
$25,000 - $50,000	176 (11.17%)
$50,000 - $75,000	76 (4.82%)
Greater than $75,000	14 (.89%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	327 (7%)
Minors 17 years and younger	1,262 (26%)
Adults 18 years and older	3,551 (74%)
Seniors 65 years and older	791 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,649 (76%)
African-American	440 (9%)
Hispanic-Origin	4,784 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	13 (0%)
Other/Multiracial	705 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	365 (13.15%)
9th through 12th Grade	301 (10.85%)
High School Diploma	1,191 (42.92%)
Some College/2-year	221 (7.96%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	388 (13.98%)

Detailed Facility Report

Facility Summary

PLAYA SANTA WWTP

PR-325 KM 5.2, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110030464094

EPA Region: 02

Latitude: 17.970672

Longitude: -66.904446

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, (PRD000691329)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110030464094					N	17.970672	-66.904446
ICIS		600021459					N	17.970672	-66.904446
RCRAInfo	RCRA	PRD000691329	Other	Inactive ( )			N	17.970672	-66.904446

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110030464094	PLAYA SANTA WWTP	PR-325 KM 5.2, GUANICA, PR 00653	Guánica Municipio
ICIS		600021459	PLAYA SANTA WWTP	STATE RD 325 KM 5.2, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRD000691329	PLAYA SANTA STP	STATE RD 325 KM 5.2, GUANICA, PR 00653	Guánica 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	PRD000691329	No	03/30/2024	0	03/29/2024

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: PRD000691329)		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

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559612001	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	5	6
Air Toxics Cancer Risk	25	56
Air Toxics Respiratory Hazard Index	20	41
Toxic Releases to Air	72	! 81
Traffic Proximity	57	! 99
Lead Paint	! 88	! 96
Risk Management Plan (RMP) Facility Proximity	65	72
Hazardous Waste Proximity	71	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 99	! 99
Wastewater Discharge	! 99	! 99

◯ Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	5,029
Population Density	1,868/sq.mi.
Housing Units in Area	2,507

General Statistics (ACS (American Community Survey))	
Total Persons	3,773
Percent People of Color	100%
Households in Area	1,526
Households on Public Assistance	153
Persons With Low Income	3,401
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.970672
Center Longitude	-66.904446
Land Area	88%
Water Area	12%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,004 (65.84%)
$15,000 - $25,000	255 (16.72%)
$25,000 - $50,000	180 (11.8%)
$50,000 - $75,000	74 (4.85%)
Greater than $75,000	12 (.79%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	337 (7%)
Minors 17 years and younger	1,307 (26%)
Adults 18 years and older	3,722 (74%)
Seniors 65 years and older	819 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,813 (76%)
African-American	464 (9%)
Hispanic-Origin	4,996 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	14 (0%)
Other/Multiracial	731 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	355 (13.16%)
9th through 12th Grade	298 (11.05%)
High School Diploma	1,155 (42.83%)
Some College/2-year	216 (8.01%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	375 (13.9%)

Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO PR 2P-380

CALLE 25 DE JULIO 2, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110022824318

EPA Region: 02

Latitude: 17.969851

Longitude: -66.907696

Locational Data Source: RCRAINFO

Industries: Gasoline Stations

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, (PRR000017897)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110022824318					N	17.969851	-66.907696
ICIS		600006919					N	17.976389	-66.9075
RCRAInfo	RCRA	PRR000017897	Other	Inactive ( )			N	17.969851	-66.907696

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110022824318	ESSO STANDARD OIL CO PR 2P-380	CALLE 25 DE JULIO 2, GUANICA, PR 00653	Guánica Municipio
ICIS		600006919	JESUS S/S (EX ESSO S/S 2P-380)	CALLE 25 DE JULIO #2, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRR000017897	ESSO STANDARD OIL CO PR 2P-380	CALLE 25 DE JULIO #2, GUANICA, PR 00653	Guánica 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
RCRAInfo	PRR000017897	44719	Other Gasoline Stations

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	PRR000017897	No	03/30/2024	0	03/29/2024

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: PRR000017897)		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

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559613001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	6	6
Air Toxics Cancer Risk	29	56
Air Toxics Respiratory Hazard Index	22	41
Toxic Releases to Air	76	! 81
Traffic Proximity	! 99	! 99
Lead Paint	! 91	! 96
Risk Management Plan (RMP) Facility Proximity	69	72
Hazardous Waste Proximity	76	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 99	! 99
Wastewater Discharge	! 99	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	4,149
Population Density	1,649/sq.mi.
Housing Units in Area	2,149

General Statistics (ACS (American Community Survey))	
Total Persons	3,817
Percent People of Color	100%
Households in Area	1,549
Households on Public Assistance	157
Persons With Low Income	3,432
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.969851
Center Longitude	-66.907696
Land Area	82%
Water Area	18%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,016 (65.63%)
$15,000 - $25,000	268 (17.31%)
$25,000 - $50,000	172 (11.11%)
$50,000 - $75,000	77 (4.97%)
Greater than $75,000	15 (.97%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	279 (7%)
Minors 17 years and younger	1,060 (26%)
Adults 18 years and older	3,090 (74%)
Seniors 65 years and older	719 (17%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,116 (75%)
African-American	392 (9%)
Hispanic-Origin	4,125 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	9 (0%)
Other/Multiracial	627 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	361 (13.17%)
9th through 12th Grade	301 (10.98%)
High School Diploma	1,172 (42.74%)
Some College/2-year	227 (8.28%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	385 (14.04%)

Detailed Facility Report

Facility Summary

US COAST GUARD - GUANICA REAR RANGE LIGHT

SANTA ROSA #32 LAT 17 58' N, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110037441444

EPA Region: 02

Latitude: 17.969848

Longitude: -66.909075

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Resource Conservation and Recovery Act (RCRA): Active VSQG, (PRR000021816), Active VSQG, (PRR000021824)

Safe Drinking Water Act (SDWA): 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		110037441444					N	17.969848	-66.909075
RCRAInfo	RCRA	PRR000021816	VSQG	Active (H)			N	17.969848	-66.909075
RCRAInfo	RCRA	PRR000021824	VSQG	Active (H)			N	17.979788	-66.620236

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110037441444	US COAST GUARD - GUANICA REAR RANGE LIGHT	SANTA ROSA #32 LAT 17 58' N, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRR000021816	US COAST GUARD - GUANICA REAR RANGE LIGH	SANTA ROSA #32 LAT 17 58' N, GUANICA, PR 00647	Guánica Municipio
RCRAInfo	RCRA	PRR000021824	US COAST GUARD - GUANICA REAR RANGE LIGH	41 CALLE BONAIRE PLAYA DE PONCE, PONCE, PR 00731	Ponce 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	PRR000021816	No	03/30/2024	0	03/29/2024
RCRA	PRR000021824	No	03/30/2024	0	03/29/2024

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: PRR000021816)			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												
RCRA (Source ID: PRR000021824)			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

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559613002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	4	6
Air Toxics Cancer Risk	16	56

Census Block Group ID: 720559613002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Air Toxics Respiratory Hazard Index	14	41
Toxic Releases to Air	59	! 81
Traffic Proximity	! 96	! 99
Lead Paint	! 85	! 91
Risk Management Plan (RMP) Facility Proximity	52	72
Hazardous Waste Proximity	59	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 94	! 99
Wastewater Discharge	! 99	! 99

○ Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	3,977
Population Density	1,608/sq.mi.
Housing Units in Area	2,096

General Statistics (ACS (American Community Survey))	
Total Persons	3,931
Percent People of Color	100%
Households in Area	1,595
Households on Public Assistance	162
Persons With Low Income	3,525
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.969848
Center Longitude	-66.909075
Land Area	79%
Water Area	21%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,039 (65.3%)
$15,000 - $25,000	275 (17.28%)
$25,000 - $50,000	182 (11.44%)
$50,000 - $75,000	78 (4.9%)
Greater than $75,000	17 (1.07%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	265 (7%)
Minors 17 years and younger	990 (25%)
Adults 18 years and older	2,988 (75%)
Seniors 65 years and older	718 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	2,992 (75%)
African-American	368 (9%)
Hispanic-Origin	3,958 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	10 (0%)
Other/Multiracial	602 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	371 (13.11%)
9th through 12th Grade	307 (10.85%)
High School Diploma	1,214 (42.91%)
Some College/2-year	230 (8.13%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	399 (14.1%)

Detailed Facility Report

Facility Summary

TALLER SANTA RITA

PR-116 3.2 INT, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110006119075

EPA Region: 02

Latitude: 17.9681

Longitude: -66.90665

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	12/03/1993
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, (PRD118157403)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110006119075					N	17.9681	-66.90665
RCRAInfo	RCRA	PRD118157403	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110006119075	TALLER SANTA RITA	PR-116 3.2 INT, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRD118157403	TALLER SANTA RITA	RD 116 3.2 INT, GUANICA, PR 00653	Guánica 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	PRD118157403	No	03/30/2024	0	03/29/2024

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: PRD118157403)		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

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559612002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**3**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	6	6
Air Toxics Cancer Risk	32	56
Air Toxics Respiratory Hazard Index	24	41
Toxic Releases to Air	79	! 81
Traffic Proximity	54	! 99
Lead Paint	! 91	! 96
Risk Management Plan (RMP) Facility Proximity	72	72
Hazardous Waste Proximity	78	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	0	! 99
Wastewater Discharge	! 99	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	4,060
Population Density	1,549/sq.mi.
Housing Units in Area	2,125

General Statistics (ACS (American Community Survey))	
Total Persons	3,643
Percent People of Color	100%
Households in Area	1,479
Households on Public Assistance	149
Persons With Low Income	3,278
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.9681
Center Longitude	-66.90665
Land Area	82%
Water Area	18%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	965 (65.25%)
$15,000 - $25,000	257 (17.38%)
$25,000 - $50,000	164 (11.09%)
$50,000 - $75,000	77 (5.21%)
Greater than $75,000	16 (1.08%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	271 (7%)
Minors 17 years and younger	1,020 (25%)
Adults 18 years and older	3,040 (75%)
Seniors 65 years and older	718 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,047 (75%)
African-American	382 (9%)
Hispanic-Origin	4,038 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	9 (0%)
Other/Multiracial	616 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	344 (13.16%)
9th through 12th Grade	296 (11.32%)
High School Diploma	1,109 (42.43%)
Some College/2-year	227 (8.68%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	363 (13.89%)

Detailed Facility Report

Facility Summary

PAN AMERICAN FERTILIZER

PR-333 KM 1.9, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110000852863

EPA Region: 02

Latitude: 17.965524

Longitude: -66.903427

Locational Data Source: SEMS

Industries: Chemical Manufacturing

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
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)	--

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

Statute	FIFRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	04/28/1994
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): Operating Minor (PR0000007205500002)

Clean Water Act (CWA): Non-Major, Permit Effective (PRR053097)

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD091171264)

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): 00653CHFRTROAD3

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		110000852863					N	17.965524	-66.903427
ICIS		3400100334					N	17.962732	-66.904202
ICIS-Air	CAA	PR0000007205500002	Minor Emissions	Operating	CAASIP		N	17.962732	-66.904202
SEMS	CERCLA	PRD091171264		CURRENTLY ON THE FINAL NPL			N	17.965524	-66.903427
ICIS-NPDES	CWA	PRR053097	Non-Major: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	17.959764	-66.906081
TRI	EP313	00653CHFRTROAD3	Toxics Release Inventory	Last Reported for 2015			N	17.962732	-66.904202
RCRAInfo	RCRA	PRD091171264	Other	Inactive ( )			N	17.962732	-66.904202

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110000852863	PAN AMERICAN FERTILIZER	PR-333 KM 1.9, GUANICA, PR 00653	Guánica Municipio
ICIS		3400100334	PAN AMERICAN FERTILIZER	PR-333 KM 1.9, GUANICA, PR 00653	Guánica Municipio
ICIS-Air	CAA	PR0000007205500002	OCHOA FERTILIZER CO	CARR 333 KM 1.8, PUERTO RICO, PR 00653	
SEMS	CERCLA	PRD091171264	OCHOA FERTILIZER CO.	PR-333 KM 1.9, GUANICA, PR 00653	Guánica Municipio
ICIS-NPDES	CWA	PRR053097	PAN AMERICAN FERTILIZER DIVISION OF PAN AMERICAN GRAIN CO. INC.	STATE ROAD PR#333 KM. 1.9, GUANICA, PR 00653	Guánica Municipio
TRI	EP313	00653CHFRTROAD3	PAN AMERICAN FERTILIZER	PR 133 KM 1.9, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRD091171264	OCHOA FERTILIZER CO INC	ST #333 KM 1.9, GUANICA, PR 00653	Guánica Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007205500002	2874	Phosphatic Fertilizers
ICIS-NPDES	PRR053097	2875	Fertilizers, Mixing Only

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
TRI	00653CHFRTROAD3	325120	Industrial Gas Manufacturing
TRI	00653CHFRTROAD3	325314	Fertilizer (Mixing Only) Manufacturing
ICIS-Air	PR0000007205500002	325312	Phosphatic Fertilizer Manufacturing

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

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

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007205500002	No	03/30/2024	0	03/29/2024
RCRA	PRD091171264	No	03/30/2024	0	03/29/2024
CWA	PRR053097	No	12/31/2023	0	03/29/2024

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+
CAA (Source ID: PR0000007205500002)					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
	HPV History															
	Violation Type	Agency	Programs	Pollutants												

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: PRR053097)		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	01/01-03/29/24
	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	Undetermined
	Quarterly Noncompliance Report History													

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+
	Benchmark Threshold Exceedances (No Violation): Pollutant	Disch Point	Mon Loc	Freq													
CWA	Phosphorus, total [as P] <effluent-charts#prr053097/00665> <https://epa.gov/effluent-charts#prr053097/00665>	002 - C1	Effluent Gross	NMth										144%			
CWA	Nitrite Plus Nitrate Total <effluent-charts#prr053097/51450> <https://epa.gov/effluent-charts#prr053097/51450>	003 - C1	Effluent Gross	NMth										8%			
CWA	Phosphorus, total [as P] <effluent-charts#prr053097/00665> <https://epa.gov/effluent-charts#prr053097/00665>	003 - C1	Effluent Gross	NMth										93%			
CWA	Nitrite Plus Nitrate Total <effluent-charts#prr053097/51450> <https://epa.gov/effluent-charts#prr053097/51450>	011 - C1	Effluent Gross	NMth			72%									128%	84%
CWA	Nitrite Plus Nitrate Total <effluent-charts#prr053097/51450> <https://epa.gov/effluent-charts#prr053097/51450>	012 - C1	Effluent Gross	NMth			19%										

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: PRD091171264)			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
CERCLA	ICIS	106A	SEMS/PRD091171264	Administrative - Formal	02-2023-2012	EPA	Guanica-Caribe Land Development Corporation	03/27/2023	1	03/27/2023	$0	$0	--	$0	$10,000,000

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?

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
PR	2020	PRSC40	Punta Ballenas to Punta Brea	Impaired - 303(d) Listed	METALS (OTHER THAN MERCURY) | PH/ACIDITY/CAUSTIC CONDITIONS | TEMPERATURE | TURBIDITY	--	Not Supporting	--	Fully 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

Air Pollutant Report TRI Pollution Prevention Report

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
00653CHFRTROAD3	2015	250	--	0	--	--	250	--
00653CHFRTROAD3	2014	500	--	0	--	0	500	--

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

Chemical Name	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Copper compounds	--	--	--	--	--	--	--	--	250	--
Manganese compounds	--	--	--	--	--	--	--	250	250	--

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description

No data records returned

Community

Environmental Justice

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

EJScreen Indexes Shown

Compare to (●) US ( ) State

Index Type ( ) Environmental Justice (●) Supplemental

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 720559611001	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**3**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	6
Air Toxics Cancer Risk	18	56
Air Toxics Respiratory Hazard Index	15	41
Toxic Releases to Air	62	! 81
Traffic Proximity	70	! 99
Lead Paint	0	! 96
Risk Management Plan (RMP) Facility Proximity	64	72
Hazardous Waste Proximity	69	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 82	! 99
Wastewater Discharge	! 96	! 99

( ) Facility 1-mile Radius ☐ Facility Census Block Group



Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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	3,930
Population Density	1,526/sq.mi.
Housing Units in Area	2,075

General Statistics (ACS (American Community Survey))	
Total Persons	3,241
Percent People of Color	100%
Households in Area	1,308
Households on Public Assistance	133
Persons With Low Income	2,907
Percent With Low Income	90%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.965524
Center Longitude	-66.903427
Land Area	83%
Water Area	17%

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	261 (7%)
Minors 17 years and younger	974 (25%)
Adults 18 years and older	2,956 (75%)
Seniors 65 years and older	709 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	2,943 (75%)
African-American	372 (9%)
Hispanic-Origin	3,910 (99%)
Asian/Pacific Islander	6 (0%)
American Indian	9 (0%)
Other/Multiracial	601 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	309 (13.21%)
9th through 12th Grade	276 (11.8%)
High School Diploma	983 (42.03%)
Some College/2-year	218 (9.32%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	848 (64.98%)
$15,000 - $25,000	224 (17.16%)
$25,000 - $50,000	145 (11.11%)
$50,000 - $75,000	76 (5.82%)
Greater than $75,000	12 (.92%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	323 (13.81%)

Detailed Facility Report

Facility Summary

PRASA GUANICA STP

YAGUER STREET, GUANICA, PR 00653

FRS (Facility Registry Service) ID: 110013696250

EPA Region: 02

Latitude: 17.9676

Longitude: -66.910805

Locational Data Source: FRS

Industries: Utilities

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	4
Date of Last Compliance Monitoring Activity	03/20/2023
Compliance Status	Violation Identified
Qtrs in Noncompliance (of 12)	3
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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Clean Water Act (CWA): Major, Permit Admin Continued (PR0020486), Non-Major, Permit Effective (PRL020486)

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRD000689539)

Safe Drinking Water Act (SDWA): 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		110013696250					N	17.9676	-66.910805
ICIS		2655227					N	17.96941	-66.91023
ICIS		46168					N	17.96941	-66.91023
ICIS-NPDES	CWA	PR0020486	Major: NPDES Individual Permit	Admin Continued	POTW	01/31/2023	N	17.9676	-66.910805
ICIS-NPDES	CWA	PRL020486	Non-Major: Associated Permit Record	Effective	Biosolids	12/31/2025	N	17.9676	-66.910805
RCRAInfo	RCRA	PRD000689539	Other	Inactive ( )			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110013696250	PRASA GUANICA STP	YAGUER STREET, GUANICA, PR 00653	Guánica Municipio
ICIS		2655227	PRASA GUANICA STP	YAGUER ST, GUANICA, PR 00653	Guánica Municipio
ICIS		46168	PRASA GUANICA	YAGUER STREET, GUANICA, PR 00653	Guánica Municipio
ICIS-NPDES	CWA	PR0020486	PRASA GUANICA WWTP	YAGUER STREET, GUANICA, PR 00653	Guánica Municipio
ICIS-NPDES	CWA	PRL020486	PRASA GUANICA	YAGUER STREET, GUANICA, PR 00653	Guánica Municipio
RCRAInfo	RCRA	PRD000689539	GUANICA STP	YAGER ST, GUANICA, PR 00653	Guánica Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0020486	4952	Sewerage Systems

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRD000689539	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	PR0020486	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	03/20/2023	
CWA	*PR0020486*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*03/24/2022*	
CWA	*PR0020486*	*ICIS-NPDES*	*Offsite Record Review*	*Base Program - Desk Audit*	*EPA*	*04/29/2021*	
CWA	PR0020486	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	10/31/2019	
CWA	PR0020486	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	04/04/2019	
CWA	PRL020486	ICIS-NPDES	Offsite Record Review	Biosolids - Desk Audit	EPA	12/31/2020	

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	PR0020486	No	12/31/2023	3	03/29/2024
CWA	PRL020486	No	12/31/2023	0	03/29/2024

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRD000689539	No	03/30/2024	0	03/29/2024

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: PR0020486)				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	01/0 03/29
	Facility-Level Status				Violation Identified	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	Violat Identi
	Quarterly Noncompliance Report History				Reportable Noncompliance	Reportable Noncompliance	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													
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0020486/00310> <https://epa.gov/effluent-charts#pr0020486/00310>	001 - A	Effluent Gross	Mthly								7%					
CWA	BOD, 5-day, 20 deg. C <effluent-charts#pr0020486/00310> <https://epa.gov/effluent-charts#pr0020486/00310>	001 - A	Effluent Gross	NMth								91%					
CWA	BOD, 5-day, percent removal <effluent-charts#pr0020486/81010> <https://epa.gov/effluent-charts#pr0020486/81010>	001 - A	Percent Removal	Neither								93%	73%	20%	73%		
CWA	Copper, total [as Cu] <effluent-charts#pr0020486/01042> <https://epa.gov/effluent-charts#pr0020486/01042>	001 - A	Effluent Gross	NMth								**64%**					
CWA	Enterococci <effluent-charts#pr0020486/61211> <https://epa.gov/effluent-charts#pr0020486/61211>	001 - A	Effluent Gross	NMth		888%	888%		75%	52%		1837%	LIMIT VIOLATION	1762%	3946%	3543%	623
CWA	Solids, suspended percent removal <effluent-charts#pr0020486/81011> <https://epa.gov/effluent-charts#pr0020486/81011>	001 - A	Percent Removal	Neither								27%	73%	40%	200%		
CWA	Solids, total suspended <effluent-charts#pr0020486/00530> <https://epa.gov/effluent-charts#pr0020486/00530>	001 - A	Effluent Gross	Mthly								10%			23%		

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 1
CWA	Solids, total suspended <effluent-charts#pr0020486/00530> <https://epa.gov/effluent-charts#pr0020486/00530>	001 - A	Effluent Gross	NMth								80%		7%	51%		
CWA	Sulfide-hydrogen sulfide [undissociated] <effluent-charts#pr0020486/51202> <https://epa.gov/effluent-charts#pr0020486/51202>	001 - Q	Effluent Gross	NMth										5090%			
CWA	Turbidity <effluent-charts#pr0020486/00070> <https://epa.gov/effluent-charts#pr0020486/00070>	001 - Q	Effluent Gross	NMth									LIMIT VIOLATION	LIMIT VIOLATION	LIMIT VIOLATION	LIMIT VIOLATION	
CWA	pH <effluent-charts#pr0020486/00400> <https://epa.gov/effluent-charts#pr0020486/00400>	001 - A	Effluent Gross	Neither		LIMIT VIOLATION							LIMIT VIOLATION	LIMIT VIOLATION			
CWA (Source ID: PRL020486)					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	01/0 03/29
	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	Undeter
	Quarterly Noncompliance Report History																

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: PRD000689539)			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/PR0020486	Judicial	02-2011-0007	EPA	PRASA - Puerto Nuevo Regional WWTP et al.	09/15/2015	2	03/22/2024	$0	--	--	--	$0
										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?
210100040109	Coastal Watersheds East of Rio Loco mouth	BAHIA GUANICA	No	No	--	Yes

Assessed Waters From Latest State Submission (ATTAINS)

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

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

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
PR0020486	DMR Pollutant Loadings (lb/year)	55,630	45,203	37,837	64,707	60,507
PR0020486	DMR Pollutant Loadings - Load Over Limit (lb/year)	4.05	0.7946	0	5.86	55.05
PR0020486	DMR Conventional Loadings (lb/year)	--	--	--	40,651	--
PR0020486	DMR Conventional Loadings - Load Over Limit (lb/year)	--	--	--	0	--
PR0020486	DMR Toxic-Weighted Loadings (lb-eq/year)	23.83	21.75	9.61	23.12	9.27
PR0020486	DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year)	2.53	0.4950	0	3.65	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

Related Reports

EJScreen Community Report

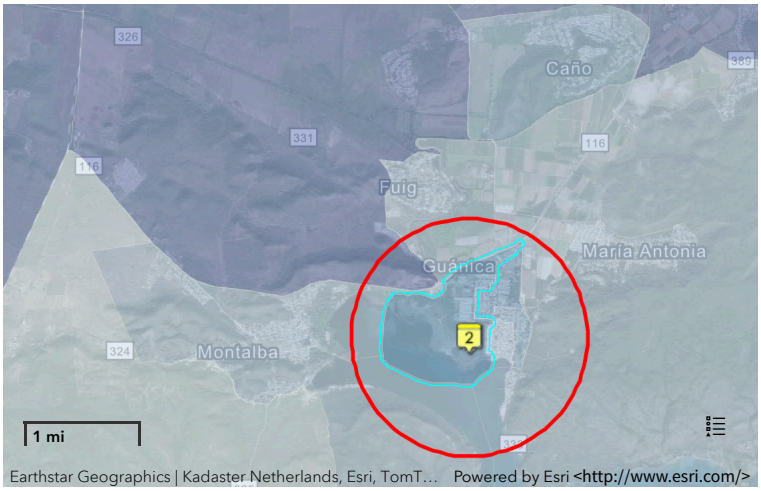
Download Data

Census Block Group ID: 720559613002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Count of Indexes At or Above 80th Percentile	**5**	**6**
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	4	6

○ Facility 1-mile Radius ☐ Facility Census Block Group



Census Block Group ID: 720559613002	US (Percentile)	
Supplemental Indexes	**Facility Census Block Group**	**1-mile Max**
Air Toxics Cancer Risk	16	56
Air Toxics Respiratory Hazard Index	14	41
Toxic Releases to Air	59	! 81
Traffic Proximity	! 96	! 99
Lead Paint	! 85	! 91
Risk Management Plan (RMP) Facility Proximity	52	72
Hazardous Waste Proximity	59	! 83
Superfund Proximity	! 99	! 99
Underground Storage Tanks (UST)	! 94	! 99
Wastewater Discharge	! 99	! 99



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	3,848
Population Density	1,660/sq.mi.
Housing Units in Area	2,049

General Statistics (ACS (American Community Survey))	
Total Persons	3,928
Percent People of Color	100%
Households in Area	1,587
Households on Public Assistance	160
Persons With Low Income	3,493
Percent With Low Income	89%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	17.9676
Center Longitude	-66.910805
Land Area	75%
Water Area	25%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	1,012 (63.73%)
$15,000 - $25,000	277 (17.44%)
$25,000 - $50,000	199 (12.53%)
$50,000 - $75,000	81 (5.1%)
Greater than $75,000	19 (1.2%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	255 (7%)
Minors 17 years and younger	950 (25%)
Adults 18 years and older	2,898 (75%)
Seniors 65 years and older	706 (18%)

Race Breakdown (U.S. Census) - Persons (%)	
White	2,886 (75%)
African-American	356 (9%)
Hispanic-Origin	3,829 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	10 (0%)
Other/Multiracial	591 (15%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	369 (12.97%)
9th through 12th Grade	318 (11.18%)
High School Diploma	1,212 (42.62%)
Some College/2-year	237 (8.33%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	404 (14.21%)

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

Memorandum to File

Date: October 3, 2024

From: Clifford Jarman
Senior Environmental Scientist
CDBG-DR Program
City Revitalization Program
Puerto Rico Department of Housing

Application Number: PR-CRP-000823
Project: Plaza Manuel Jiminez Mesa Reconstruction

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-CRP-000823 under the City Revitalization Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

Per the U.S. Department of Housing and Urban Development's (**HUD**) CPD Notice 23-103, the recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the following reason[s]:

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.

- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site is in a high-risk area. The Department of Health and Human Services, Centers for

Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (**ANSI/AARST**) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.

- Do-it-yourself (**DIY**) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.

- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local agencies at the state and federal levels. We received responses from the following agencies:

- United States Geological Survey;
- Centers for Disease Control and Prevention;
- Puerto Rico Department of Health; and
- United States Environmental Protection Agency.

The agencies mentioned above confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face to comply with HUD's Radon testing requirement. For the above-mentioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review.

Radon
Attachments

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Carmen R. Guerrero Pérez
Director
Caribbean Environmental Protection Division
City View Plaza II – Suite 7000
#48 Rd. 165 km 1.2
Guaynabo, PR 00968-8069

Via email: guerrero.carmen@epa.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Oleg Povetko, Povetko.Oleg@epa.gov
Mr. Matthew Laurita, laurita.matthew@epa.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Silvina Cancelos
Professor
College of Engineering
University of Puerto Rico – Mayagüez Campus
259 Norte Blvd. Alfonso Valdés Cobián
Mayagüez, Puerto Rico

Via email: silvina.cancelos@upr.edu

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365
Tel. (787) 274-2527 | www.vivienda.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Dr. Carlos Marín, carlos.marin3@upr.edu

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Jessica Irizarry
Director
Office of Island Affairs
U.S. Centers for Disease Control and Prevention
1324 Cll Canada, San Juan, 00920
Guaynabo, PR 00968-8069

Vía email: OIA@cdc.gov

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Anaís Rodríguez
Secretary
Puerto Rico Department of Natural Resources
Carretera 8838, km. 6.3, Sector El Cinco,
Río Piedras San Juan, PR 00926

Vía email: anais.rodriguez@drna.pr.gov

RE: Request for information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Luis Márquez, secretariaaire@drna.pr.gov
Eng. Amarilys Rosario, aire@drna.pr.gov
Mrs. Elid Ortega, eortega@drna.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Carlos R. Mellado López
Secretary
Puerto Rico Department of Health
PO Box 70184
San Juan, PR 00936-8184

Vía email: drcarlos.mellado@salud.pr.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Holly Weyers
Regional Director, Southeast – Puerto Rico
US Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607

Vía email: hsweyers@usgs.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365
Tel. (787) 274-2527 | www.vivienda.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. R. Randall Schumann, rschumann@usgs.gov

From: Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>
Sent: Tuesday, September 3, 2024 6:36 AM
To: Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszotarski, Peter (CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)
Cc: Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)
Subject: RE: REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

In response to the request from Mr. William Rodriguez of the Department of Housing, Government of Puerto Rico, I have reviewed all the available data within the CDC National Environmental Public Health Tracking Network system for data related to radon in Puerto Rico. In addition to the tracking data available on the internet, I also reached out to Mr. Aaron Vinson of the NCEH Tracking Branch.

I was not able to find any data in the CDC systems and this was confirmed by Mr. Vinson. We also reached out the US Environmental Protection Agency who indicated they had no radon data in their systems. Please relay this information to Mr. Rodriguez in your response to his requests

If you have any additional questions, please contact me.

Thank you and best regards,

Paul A. Charp, Ph.D., Fellow, HPS
Senior Health Physicist
Emerging Environmental Hazards and Health Effects Branch (EEHHEB)
Division of Environmental Health Science and Practice (DEHSP)
National Center for Environmental Health (NCEH)
Centers for Disease Control and Prevention (CDC)
pcharp@cdc.gov
770-488-0723 office
404.388.0614 Cell



From: Schumann, R. Randall <rschumann@usgs.gov>
Sent: Wednesday, August 21, 2024 4:39 PM
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>
Subject: RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

In the early 1990s the U.S. Geological Survey (USGS) conducted geologic assessments of radon potential for all 50 states and the territories of Guam and Puerto Rico, in collaboration with the U.S. EPA. I conducted the geologic radon potential assessment for Puerto Rico. The PDF file of the report is too large to attach to this message but it can be obtained at https://pubs.usgs.gov/of/1993/0292k/report.pdf. The USGS did not conduct indoor radon testing and we did not conduct field studies associated with this assessment; it was based on existing data. Mr. David Saldana of the Puerto Rico Department of Health kindly provided us with data for 610 homes that were tested for indoor radon by his agency between 1993 and 1995, which are summarized in the report. I am not aware of any other radon-related geologic studies conducted in the Commonwealth of Puerto Rico by the U.S. Geological Survey.

Best regards,

R. Randall Schumann
Scientist Emeritus
U.S. Geological Survey
Geosciences and Environmental Change Science Center
Denver, Colorado, USA
rschumann@usgs.gov
https://www.usgs.gov/staff-profiles/r-randall-schumann

From: Raul Hernandez Doble <rhernandez2@salud.pr.gov>
Sent: Wednesday, August 21, 2024 2:13:31 PM
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>
Subject: RE: [EXTERNAL]Request for Information- Randon testing and levels

Good afternoon. Ms. Medina

I regret to inform that we do not have any recent information on radon testing, since we do not have a certified radiation laboratory certified for radon testing. There are companies that sell test kits available online that can be done and mailed to a testing laboratory. There are also lists of radon contractors and these companies that process radon testing cartridges with instructions, on the Environmental Protection Agency Indoor air Quality web page. The last radon study in Puerto Rico done by the PR Department of Health was done on the year 1993.

Raul Hernandez Doble
Director, Seccion Salud Radiologica
Division de Salud Ambiental
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica
rhernandez2@salud.gov.pr
Phone: (787)765-2929 ext. 3210

From: Reyes, Brenda <Reyes.Brenda@epa.gov>
Sent: Wednesday, September 18, 2024 11:48 AM
To: Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>
Subject: RE: Request for Information- Randon testing and levels

Saludos.

La EPA esta trabajando una respuesta a su petición. Se sometió borrador a la directora y el subdirector para su aprobación y firma.

Brenda Reyes Tomassini
Public Affairs
U.S. EPA
Region 2
Caribbean Environmental Protection Division
(787) 977-5869/(787) 977-5865
Mobile: 202-834-1290

From: Silvina Cancelos Mancini <silvina.cancelos@upr.edu>
Sent: Friday, September 6, 2024 15:04
To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Reyes, Brenda <Reyes.Brenda@epa.gov>; Povetko, Oleg <Povetko.Oleg@epa.gov>
Subject: Re: Request for Information- Randon testing and levels

Estimada Melanie Medina
Quería dejarle saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvina Cancelos
Professor
Associate Director
Mechanical Engineering Department
University of Puerto Rico - Mayaguez
Call BOX 9000 Mayaguez PR 00680
Tel: 787-832-4040 ext 5956
email: silvina.cancelos@upr.edu



Bubble Dynamics Lab
University of Puerto Rico - Mayagüez

EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

VIA EMAIL

William O. Rodríguez Rodríguez, Esq.
Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

RE: EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico

Dear Honorable Secretary Rodríguez Rodríguez:

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico.

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and ventilation allow for soil-gas radon to enter and concentrate within the structure.[1] According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993-1995 study documentation is not available to the EPA.

Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered devices) are impractical in Puerto Rico because of high humidity and power outages. The recovery and rebuilding of communities following the aftermath of 2017 Hurricanes Irma and Maria presented an opportunity to develop radon prevention and mitigation strategies in 2019. Initially, EPA sampled indoor radon air in over 170 single-family residences in the municipalities of San Sebastian, Lares, Ciales, Arecibo, Morovis, Camuy, and Hatillo and later expanded the project to other municipalities such as Rincon, Aguada, Aguadilla, Isabela, Quebradillas, Barceloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) standards of practice (ANSI/AARS, 2019). The sampling was designed in two stages: scoping and confirmatory sampling. The scoping sampling was conducted using Corentium Home (CH) electronic monitors and E-Perm systems. Locations measuring above the EPA Action Level of 4 pCi/L with CH were measured at the second stage of the sampling using RAD7 and Corentium Pro Continuous Radon Monitors (CRMs). Nationally certified radon sampling professionals led by one such professional from the UPRM conducted confirmatory sampling in the second stage. Also, during the study, the nationally certified radon mitigation professionals inspected several homes with elevated indoor radon levels.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in 2020. EPA and UPRM continue to work on the project, however, results have not been finalized, and no scientific report has been published yet. Unfortunately, EPA cannot share preliminary data at this time because it contains privileged information. Nevertheless, preliminary data from the study does show homes with levels over 4 pCi/L (EPA Action Level) that might need mitigation to protect the health of their inhabitants.

Although many states have developed laws and regulations governing radon disclosure, certification, and mitigation, Puerto Rico lacks legislation or mandatory radon testing provisions for new construction, remodeling, selling or buying homes. Given this loophole and aiming to answer your request, the EPA can provide information on Best Management Practices for sampling indoor radon in Puerto Rico.

[1] **Reference**: USGS. Geologic Radon Potential of Guam and Puerto Rico, Report 93-292-K. Washington, DC: USGS. Retrieved 9/11/2024, from https://pubs.usgs.gov/of/1993/0292k/report.pdf.

CITY VIEW PLAZA II BUILDING, 7TH FLOOR
ROUTE 165 GUAYNABO, PR 00968

If you have any questions or need any additional information, please contact me at 787-977-5865 or guerrero.carmen@epa.gov or have your staff contact Reyes, Brenda at reyes.brenda@epa.gov or (787) 977-5869.

Sincerely,

CARMEN GUERRERO PEREZ

Digitally signed by CARMEN GUERRERO PEREZ
Date: 2024.09.23 09:41:39 -04'00'

Carmen R. Guerrero Pérez
Director

cc: Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)
Melany Medina: mmedina@vivienda.pr.gov
Elaine Dume Mejia: Edume@vivienda.pr.gov
Luz S Colon Ortiz: Lcolon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov
Cesar O. Rodriguez: cesarrodriguez@drna.pr.gov
Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov

Appendix H: USFWS Consultation Documents and Mitigation Measures

Transmittal Letter

April 3, 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: 2024.04.05 09:10:04 -04'00'

ROBERT TAWES Digitally signed by ROBERT TAWES Date: 2024.04.05 12:40:38 -04'00'

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
City Revitalization Program
March 2024

We are submitting the following Self-Certifications for projects under the CDBG-DR 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-000005	Ponce Urban Renewal Initiatives
PR-CRP-000340	Colisseum Luis Aymat Cardona
PR-CRP-000492	Rompeolas Recreational and Activities Facilities
PR-CRP-000557	Intersection Improvements Roundabout PR-693 and PR-698
PR-CRP-000720	Revitalización y Restauración del Centro Urbano
PR-CRP-000802/ PR-CRP-000804	Revitalization of Maunabo Public Plaza/ *Mejoras a las calles del Casco Urbano*
PR-CRP-000823	*Remodelación de la Plaza Pública Manuel Jiménez Mesa*
PR-CRP-000857	*Mejoras a la Calle Bosque y Calle Lic. A. Ramírez Silva*
PR-CRP-000858	*Mejoras al Parque de los Próceres*
PR-CRP-000993	*Rotonda PR-865 int. Ave. Campanilla, Campanilla*
PR-CRP-000979	*Plaza de Monumento al Veterano*
PR-CRP-001010	*Rehabilitación y Mejoras a la Plaza del Mercado*
PR-CRP-001060	Multilevel Parking Building at Mario "Quijote" Morales Complex

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 ***Remodelación de la Plaza Pública Manuel Jiménez Mesa*** **(PR-CRP-000823)**, consisting of the renovation of the Plaza Manuel Jiménez Mesa, including removing and replacing current urban surfaces by ADA compliant surfaces and ramps, improvements to two existing concessionaire kiosks, children's playground area, relocation of Veterans monument, installation of fixed mobiliary, landscaping renovation and, construction of an open pergola. located on 25 de Julio Street, Pueblo Ward, Guánica, PR 00653, coordinates 17.9724021, -66.9079112 and with dimensions of 0.94 acres, 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.

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

3-25-2024
Date

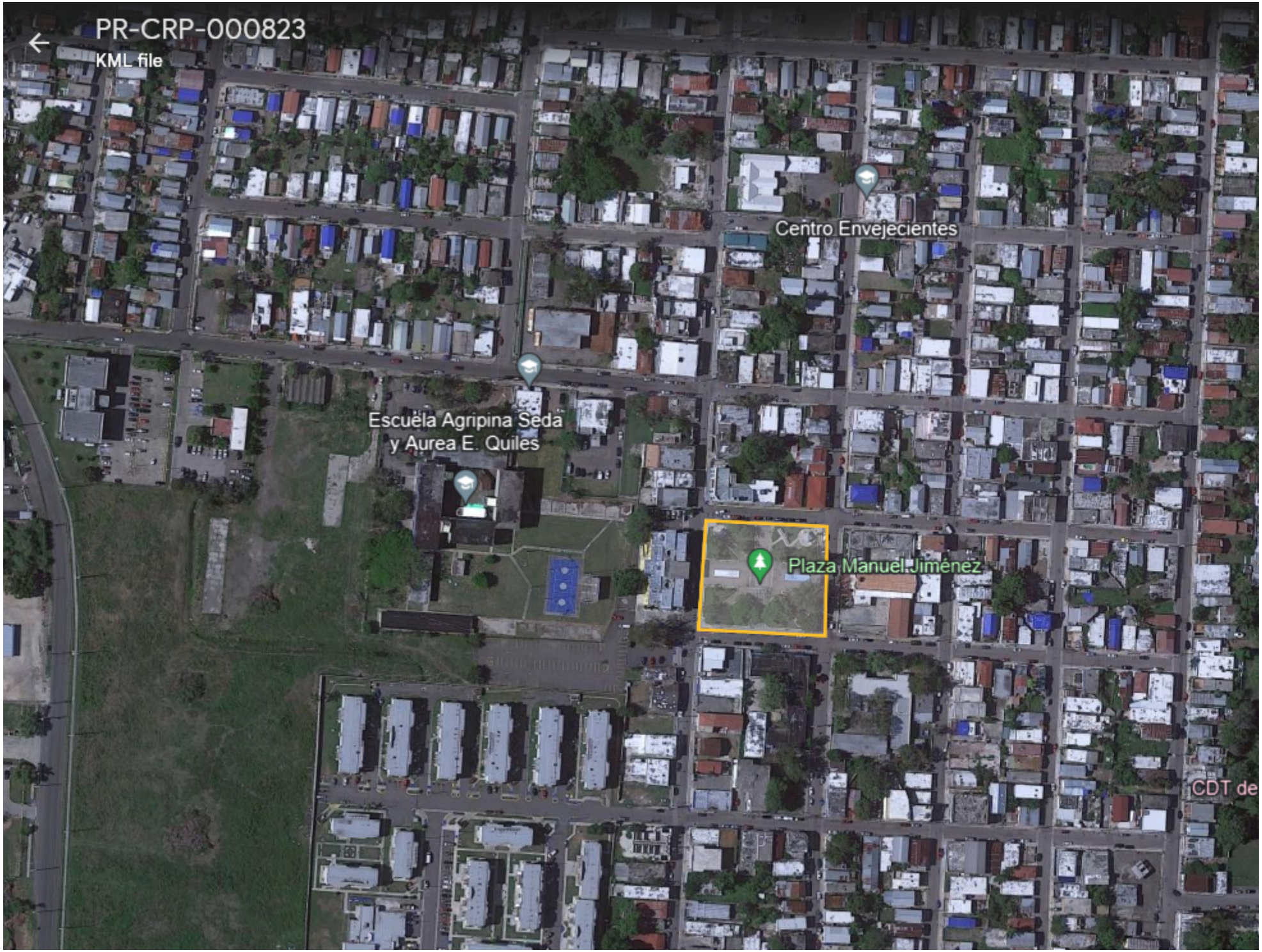
Office of Disaster Recovery
Address: P.O. Box 21365 San Juan, PR 00928
Telephone and Ext: 787-274-2527 ext. 4320
Email: environmentcdbg@vivienda.pr.gov

Attachment 1

Location Map

Critical Habitat Map

Wetland Map


PR-CRP-000823
KML file
Centro Envejecientes
Escuela Agripina Seda
y Aurea E. Quiles
Plaza Manuel Jiménez
CDT de

Final Polygon Features

Final Linear Features

Proposed Polygon Features

Proposed Linear Features

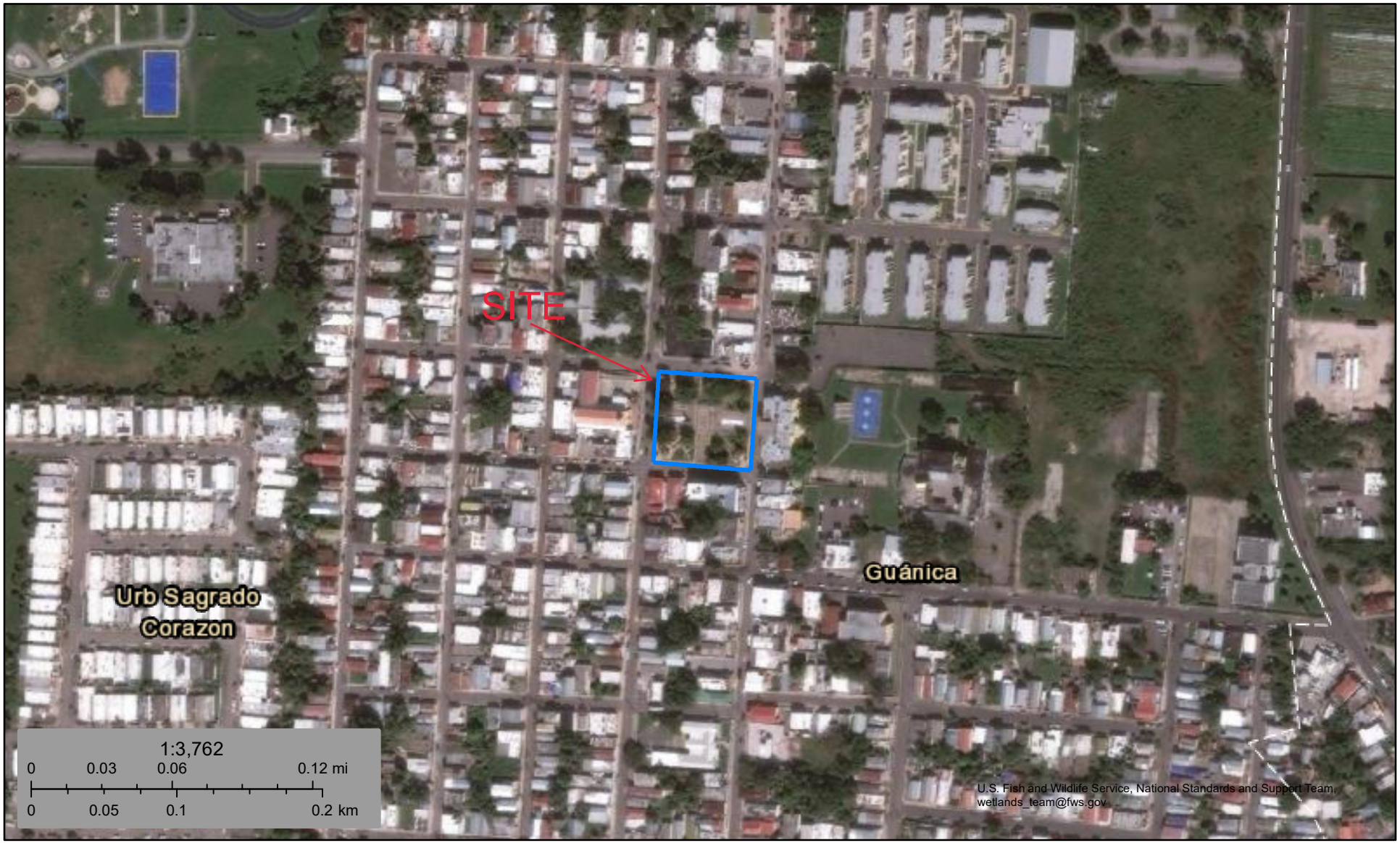


A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

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

U.S. Fish and Wildlife Service
National Wetlands Inventory

PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez



January 18, 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.

Attachment 2

IPaC Report

United States Department of the Interior

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

In Reply Refer To: December 18, 2023
Project Code: 2024-0027513
Project Name: Reconstrucción Plaza Manuel Jiménez Mesa

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

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

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

This species list is provided by:

Caribbean Ecological Services Field Office
caribbean_es@fws.gov
Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

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

PROJECT SUMMARY

Project Code: 2024-0027513
Project Name: Reconstrucción Plaza Manuel Jiménez Mesa
Project Type: Recreation - Maintenance / Modification
Project Description: The proposed Project consists of the refurbishment of approximately 3,809 square meters of the Plaza Manuel Jiménez Mesa structure located on 25 de Julio Street, Pueblo Ward of the Municipality of Guánica, Puerto Rico. The Municipality of Guánica is interested in the reconstruction of the Manuel Jiménez Mesa Plaza to update its urban infrastructure program to modern operational standards. The municipality aims to rejuvenate the current Municipal Plaza, a centrally located public facility in the heart of the urban core, serving as a hub for communal social, educational, and musical activities, featuring two existing kiosks providing food and refreshments. The renovation plan includes removing and replacing current urban surfaces and features, alongside new construction, and the installation of additional amenities.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@17.9724021,-66.9079111715292,14z



Counties: Guánica County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

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

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

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

---

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

MAMMALS

NAME	STATUS
West Indian Manatee *Trichechus manatus*	Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
This species is also protected by the Marine Mammal Protection Act, and may have additional consultation requirements.
Species profile: https://ecos.fws.gov/ecp/species/4469
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/MQBKOA6Z7RHJTJLHF2IJMVMNKE/documents/generated/7138.pdf

BIRDS

NAME	STATUS
Yellow-shouldered Blackbird *Agelaius xanthomus*	Endangered

There is **final** critical habitat for this species. Your location overlaps the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/7383

REPTILES

NAME	STATUS
Puerto Rican Boa *Chilabothrus inornatus*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/6628
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/MQBKOA6Z7RHJTJLHF2IJMVMNKE/documents/generated/7140.pdf

FLOWERING PLANTS

NAME	STATUS
Bariaco *Trichilia triacantha*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/1576

CRITICAL HABITATS

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Yellow-shouldered Blackbird *Agelaius xanthomus*	Final

https://ecos.fws.gov/ecp/species/7383#crithab

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

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

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

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

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

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty 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[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

---

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

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

MARINE MAMMALS

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

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

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

---

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

NAME

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

WETLANDS

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

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

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

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Melannie Moreno Rolón
Address: PO Box 5845
City: Caguas
State: PR
Zip: 00726
Email mmoreno@quantum-value.com
Phone: 9392506579

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.

NOT FOR CONSULTATION

Project information

NAME

Reconstrucción Plaza Manuel Jiménez Mesa

LOCATION

Guánica County, Puerto Rico



DESCRIPTION

Some(The proposed Project consists of the renovation of approximately 3,809 square meters of the Manuel Jiménez Mesa Plaza structure located on 25 de Julio Street, Pueblo Ward of the Municipality of Guánica, Puerto Rico. The Municipality of Guánica is interested

in the reconstruction of the Manuel Jiménez Mesa Plaza to update its urban infrastructure program to modern operational standards.)

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

NOT FOR CONSULTATION

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. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. 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.

---

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

NOT FOR CONSULTATION

Commerce.

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

Mammals

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

Birds

NAME	STATUS
Yellow-shouldered Blackbird Agelaius xanthomus Wherever found There is **final** critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/7383	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

Flowering Plants

NAME	STATUS
Bariaco Trichilia triacantha Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1576	Endangered

NOT FOR CONSULTATION

Critical habitats

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

This location overlaps the critical habitat for the following species:

NAME	TYPE
Yellow-shouldered Blackbird Agelaius xanthomus https://ecos.fws.gov/ecp/species/7383#crithab	Final

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-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?

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

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?

NOT FOR CONSULTATION

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

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

Marine mammals

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

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

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

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

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

NAME

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

NOT FOR CONSULTATION

Facilities

National Wildlife Refuge lands

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

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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

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

This location did not intersect any wetlands mapped by NWI.

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

Data limitations

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

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

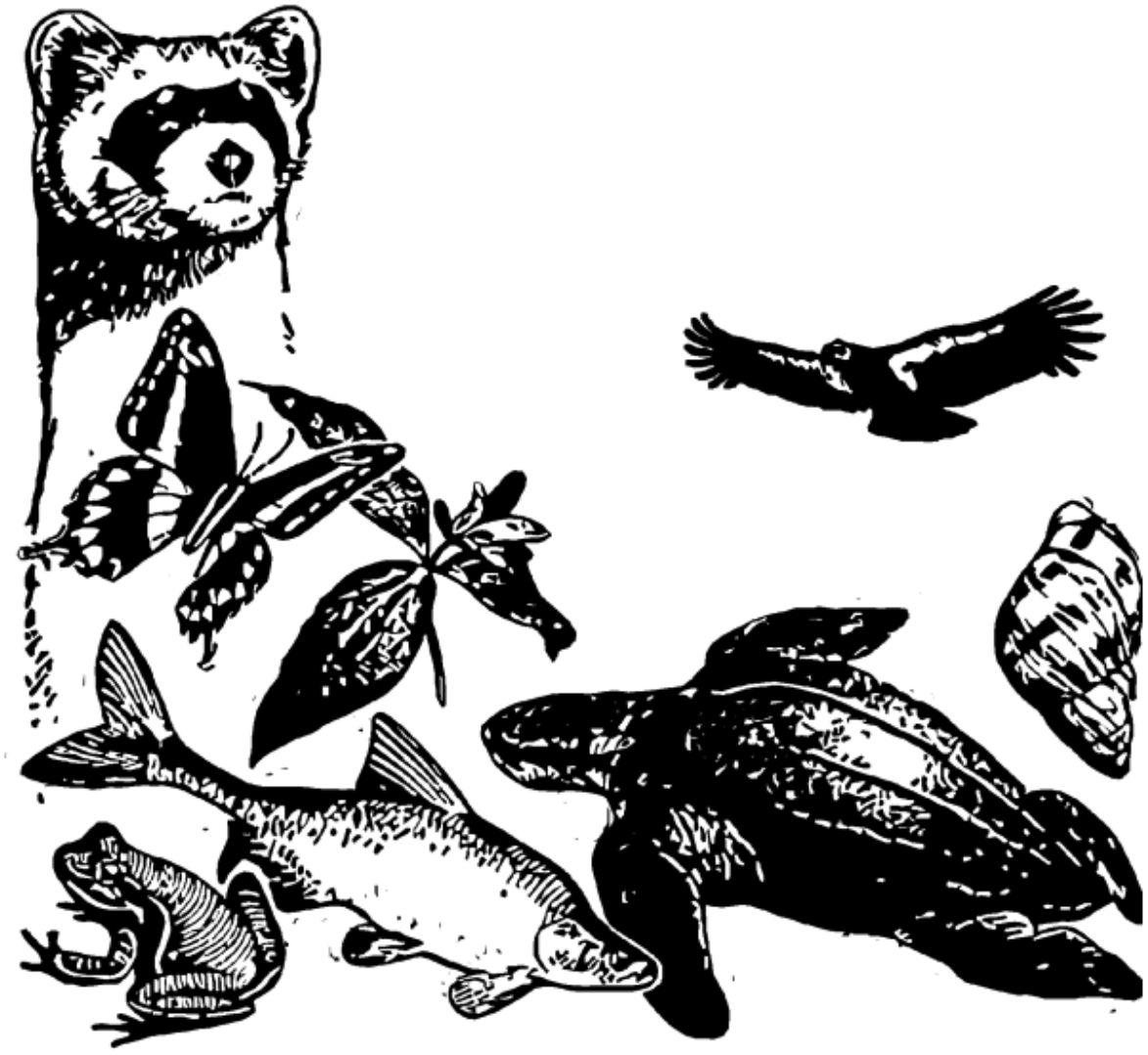
Attachment 3

Conservation Measures

U.S. Fish & Wildlife Service

General Project Design Guidelines (2 Species)

Generated December 12, 2023 08:55 PM UTC, IPaC v6.102.0-rc4



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

Table of Contents

Species Document Availability 1
West Indian Manatee - Caribbean Ecological Services Field Office 2
Puerto Rican Boa - Caribbean Ecological Services Field Office 13

Species Document Availability

Species with general design guidelines

Puerto Rican Boa Chilabothrus inornatus

West Indian Manatee Trichechus manatus

Species without general design guidelines available

Bariaco Trichilia triacantha

Yellow-shouldered Blackbird Agelaius xanthomus

General Project Design Guidelines - West Indian Manatee and 3 more species

Published by Caribbean Ecological Services Field Office - Publication Date: October 12, 2023 for the following species included in your project

- West Indian Manatee *Trichechus manatus*
- Bariaco *Trichilia triacantha*
- Yellow-shouldered Blackbird *Agelaius xanthomus*
- Puerto Rican Boa *Chilabothrus inornatus*

U.S. FISH & WILDLIFE SERVICE
CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE
JULY 2023

TECHNICAL ASSISTANCE TO EVALUATE EFFECTS ON ANTILLEAN MANATEES

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

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

1. Type and amount of watercraft associated to the project.

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

3. Amount of habitat to be affected (e.g. acres of sea grasses and/or mangroves) and water depths for the entire footprint.

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

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

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

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

The following manatee conservation measures are recommended:

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

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

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

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

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

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

7. Any collision with and/or injury to a manatee shall be reported immediately to the Department of Natural and Environmental Resources Law Enforcement (787-724-5700 or 787-771-1124), the USFWS Caribbean Ecological Services Field Office (786-244-0081), or the Caribbean Manatee Conservation Center (787-400-2782 [AQUA]).

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

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

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

PRECAUCIÓN: HÁBITAT DE MANATÍ
CAUTION: MANATEE HABITAT

Toda embarcación

VELOCIDAD MÁXIMA 5MPH

All project vessels **IDLE SPEED/NO WAKE**

Si observa un manatí a 50 pies o menos del área de trabajo, toda actividad en el agua debe

DETENERSE

When a manatee is within 50 feet of work all in-water activities must **SHUT DOWN**

Informe cualquier accidente con un manatí.

Report any collision with or injury to a manatee.



Vigilantes DRNA
(787) 724-5700

Manatee Conservation Center
(787) 400-AQUA(2782)

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

To obtain a ready to print copy of this sign, please contact Jan P. Zegarra from the USFWS Caribbean Ecological Services Field Office at jan_zegarra@fws.gov.

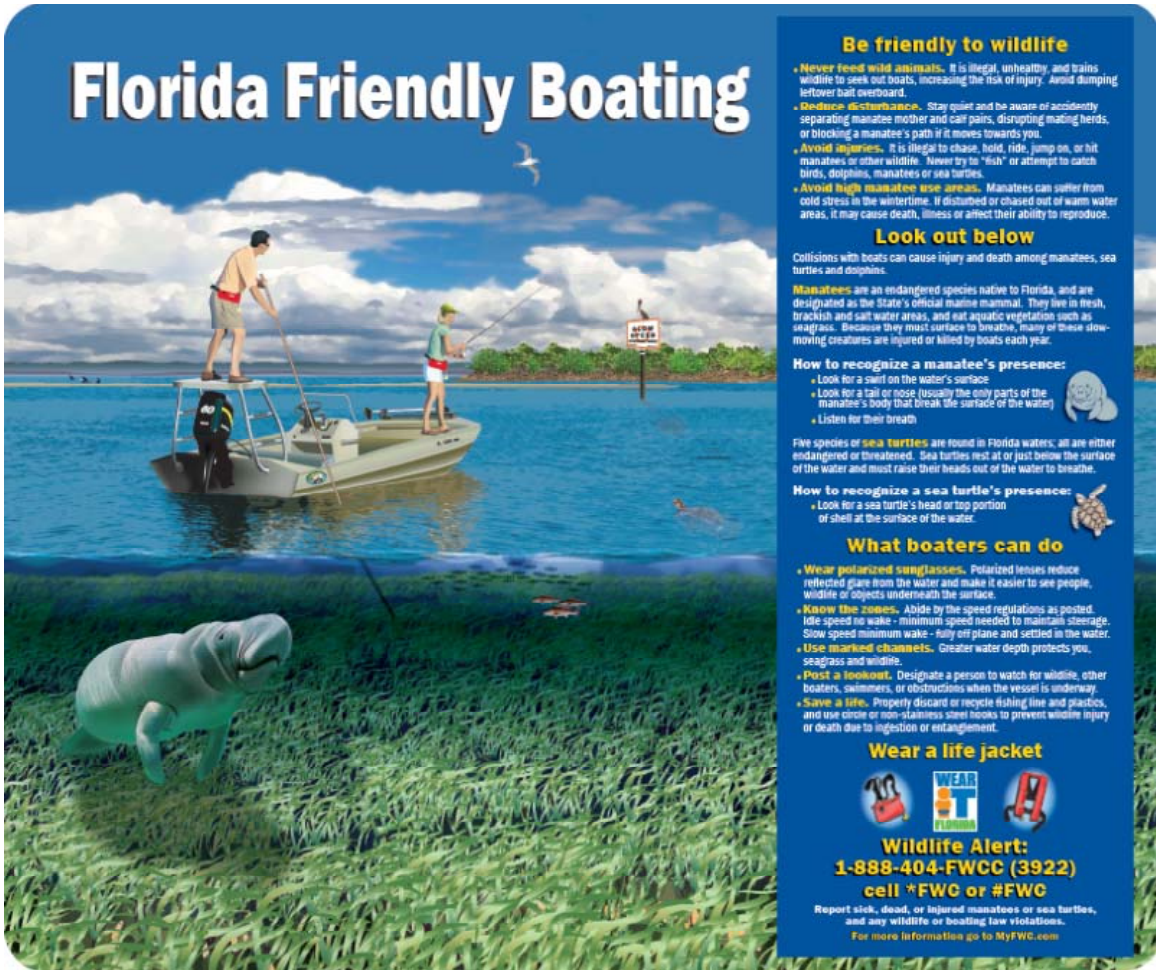


This **permanent** bilingual sign is required as part of the standard manatee construction conditions and is intended to be placed within docking and launching facilities. Minimum size should be at least 30” inches tall by 24” inches wide with rounded corners. This sign shall be installed prior, during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

To obtain a ready to print copy of this sign, please contact Jan P. Zegarra from the USFWS Caribbean Ecological Services Field Office at jan_zegarra@fws.gov.

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

EXAMPLE MANATEE EDUCATIONAL SIGN



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

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

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

    a. Temporary bilingual signs:

PRECAUCIÓN
MANATÍES EN EL ÁREA
Mantenga velocidad de 5 mph dentro del área de construcción
Informe cualquier incidente con un manatí
Vigilantes DRNA 787-724-5700 / 787-771-1124

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

    b. Permanent bilingual signs:

PRECAUCIÓN
MANATÍES EN EL ÁREA
Velocidad máxima 5 mph
Informe cualquier incidente con un manatí
Vigilantes DRNA 787-724-5700 / 787-771-1124

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

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

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

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

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

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

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

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

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

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

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

Informe accidentes con un manatí inmediatamente. Si encuentra un bebé manatí solo, en peligro, herido o muerto, llame al Cuerpo de Vigilantes del Departamento de Recursos Naturales y Ambientales al 787-724-5700 o 787-771-1124. (*Inform any accident with a manatee immediately. If you find a baby manatee alone, in danger, injured or dead, call the Department of Natural and Environmental Resources Law Enforcement of at 787-724-5700 or 787-771-1124*).

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

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

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

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

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

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

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

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

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

Last Revised: July 2023

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- José Cruz-Burgos, Endangered Species Coordinator
    - Email: jose_cruz-burgos@fws.gov
    - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
    - Email: jan_zegarra@fws.gov
    - Office phone (786) 933-1451

General Project Design Guidelines - West Indian Manatee and 3 more species

Published by Caribbean Ecological Services Field Office - Publication Date: October 12, 2023 for the following species included in your project

- West Indian Manatee *Trichechus manatus*
- Bariaco *Trichilia triacantha*
- Yellow-shouldered Blackbird *Agelaius xanthomus*
- Puerto Rican Boa *Chilabothrus inornatus*

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

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

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

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



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

Last Revised: October 2023

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:

- José Cruz-Burgos, Endangered Species Coordinator
    - Email: jose_cruz-burgos@fws.gov
    - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
    - Email: jan_zegarra@fws.gov
    - Office phone (786) 933-1451

Last Revised: October 2023

INVENTARIO DE ÁRBOLES Y PLAN DE SIEMBRA

PLAZA DE RECREO - MANUEL JIMENEZ
STATE ROAD PR-332
GUANICA P.R.

SOLICITADO POR:

Eduardo A. Regis MA
CAAPPR NCARB USGBC ULI CEO
TRG Architects PSC
PO Box 9023795 San Juan, Puerto Rico 00902-3795
1 787 469 5688
trgarchitects.com

PREPARADO POR:

Agro. Carlos E. Morganti Yulfo
Licencia de Agrónomo #. 2437
Profesional de Siembra y Forestación # 158
Inspector de Siembra y Forestación OGPe
PO BOX 4550 AGUADILLA, PR 00605
Tel: (787) 420-1499, Email: morganti.carlos@gmail.com

CARLOS E. MORGANTI YULFO
AGRONOMO LIC. # 2437
COLEGIO DE AGRONOMOS PUERTO RICO
BIOLOGO - PSF #158
PUERTO RICO

TABLA DE CONTENIDO

1.0 Resumen Ejecutivo - Memorial Explicativo

2.0 Introducción

3.0 Metodología

4.0 Resultados

5.0 Recomendaciones

Especificaciones para el acondicionamiento del terreno
Especificaciones para el manejo de los árboles
Protección de los árboles durante la construcción
Mantenimiento

6.0 Referencias

7.0 Fotos de los Arboles

8.0 Certificación Inspector Autorizado

9.0 Plano de Inventario y Plano de Siembra Certificados

1.0 Resumen Ejecutivo - Memorial Explicativo

El Gobierno Municipal de Guánica propone a través del Arquitecto Eduardo A. Regis la remodelación de la Plaza de Recreo del pueblo. El entorno actual responde a características urbanas con uso principalmente institucional y comercial.

La remodelación de la Plaza contempla la remoción de parte del material vegetativo existente, por lo que los árboles que se encuentran en ella podrían verse afectados.

El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles requiere el inventario de todos los árboles existentes y la evaluación de la condición física de cada uno de ellos. Además, requiere la implementación de un Plan de Mitigación para compensar la pérdida de árboles que podrían afectarse por el proyecto propuesto.

En el inventario de árboles realizado se encontraron veintisiete (27) árboles. No se encontraron en el predio especies amenazadas o en peligro de extinción. La fase de mitigación contempla la siembra de veintitrés (23) árboles para minimizar el efecto adverso causado por las actividades de construcción del proyecto propuesto.

2.0 Introducción

- **El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles, requiere la realización de un inventario de los árboles encontrados en el área propuesta para el proyecto. El propósito de este inventario es el identificar las especies de árboles existentes en el área propuesta para el proyecto y evaluar su condición física.**

Se realizó el inventario de árboles requerido en el área propuesta para la construcción del nuevo edificio. En este inventario se identificaron los árboles existentes y se localizaron en un plano. A los mismos se les realizaron las siguientes medidas:

- **Diámetro del tronco en pulgadas a nivel del pecho (DAP)**
- **Altura en pies**

Además de estas medidas, condición física y localización de los árboles se incluyeron recomendaciones de la acción a ser tomada, según lo requiere el El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles. Este estudio fue realizado por el Agrónomo Carlos E. Morganti Yulfo Licencia Agrónomo # 2437 - PSF # 158 – Inspector de Siembra y Forestación OGPe

3.0 Metodología

La metodología utilizada para llevar a cabo el inventario de árboles está basada en las directrices del El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles.
Los árboles existentes en el área del proyecto fueron identificados y localizados en un plano del área. Se verificó la condición de cada árbol para determinar si existía alguna plaga, enfermedad o daños estructurales que afectaran al árbol.

Para cada árbol inventariado, se midió el diámetro a nivel del pecho (en pulgadas) y su altura (en pies). Se incluyeron, además, recomendaciones y comentarios con relación a la acción a ser tomada (eliminar, transplantar o preservar) según lo requiere el El Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles.

Todos estos datos están tabulados para facilitar su interpretación.

4.0 Resultados

Se identificaron veintisiete (27) árboles en el área de estudio. Estos están distribuidos a través de la propiedad. No se encontraron especies amenazadas o en peligro de extinción en el área de estudio. La tabla 1 y 2 presentan los resultados y un resumen del inventario de árboles. Adjunto se presentan también los planos de Localización o Inventario de los árboles existentes en el área de estudio y el Plano de Siembra o Mitigación.

Los árboles a sembrar para la mitigación serán un total de veintitrés (23) Esto siguiendo el Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios 2020 Capítulo 3.4 Regla 3.4.2 Requisitos para Mitigación y Siembra de Árboles

Los criterios utilizados fueron:

- 3 árboles por cada árbol eliminado de DAP igual ó mayor de 4"
- 5 árboles por cada arbol eliminado de DAP igual o mayor de 40"

Todos los árboles serán pequeños y medianos, de 6 pies mínimos de altura y serán sembrados a 10 pies de distancia entre árboles.

5.0 Requisitos de Siembra y Mitigación

PLAN DE MITIGACION

Requerimiento Corte	Total Arboles a cortar	Arboles Requeridos para mitigación
DAP igual ó mayor de 4" (3:1)	6	18
DAP igual o mayor de 24" (4:1)	0	0
DAP igual o mayor de 40" (5:1)	1	5
Perímetro	N/A	
Estacionamientos	N/A	
Total Arboles a Sembrar por mitigación	23	árboles

Tabla # 1 Inventario de Árboles

Num.	Nombre Común	Nombre científico	DAP (pulgs.)	Altura (pies)	Observaciones (Condición)	Acción propuesta
1	Caoba Dominicana	*Swietenia mahagoni*	23"	26'	Tronco Lacerado	Conservar
2	Caoba Dominicana	*Swietenia mahagoni*	22"	25'	Tronco Lacerado, enfermo y deteriorado	Eliminar
3	Caoba Dominicana	*Swietenia mahagoni*	32"	28'	Tronco Lacerado	Conservar
4	Reina de las Flores	*Lagerstroemia speciosa*	16"	22'	Buena, comején	Eliminar
5	Laurel de Benjamina	*Ficus benjamina*	23"	26'	Buena	Conservar
6	Árbol de Goma	*Ficus elástica*	17"	22'	Buena, raíces expuestas	Conservar
7	Laurel de Benjamina	*Ficus benjamina*	22"	18'	Buena, Tronco Lacerado	Conservar
8	Palma Coco Plumosa	*Syagrus romanzoffiana*	12"	15'	Buena	Conservar
9	Palma Coco Plumosa	*Syagrus romanzoffiana*	10"	18'	Buena	Conservar
10	Árbol de Orquídea	*Bauhinia monandra*	11"	15'	Árbol inclinado, tronco lacerado	Conservar
11	Palma Coco Plumosa	*Syagrus romanzoffiana*	11"	10'	Buena	Trasplantar

12	Palma Coco Plumosa	*Syagrus romanzoffiana*	8"	12'	Buena	Trasplantar
13	Roble Nativo	*Tabebuia heterophylla*	15"	16'	Buena	Conservar
14	Laurel de Benjamina	*Ficus benjamina*	18"	20'	Tronco Lacerado, ramas partidas	Conservar
15	Árbol de Hierro	*Krugiodendron ferreum*	16"	15'	Buena	Conservar
16	Árbol de Hierro	*Krugiodendron ferreum*	15"	14'	Buena	Eliminar
17	Laurel de Benjamina	*Ficus benjamina*	21"	18'	Multi-tallos, raíces superficiales	Conservar
18	Laurel de Benjamina	*Ficus benjamina*	16"	24'	Multi-tallos, raíces superficiales, tronco lacerado	Conservar
19	Roble amarillo	*Handroanthus chrysotrichus*	10"	22'	Buena	Conservar
20	Roble amarillo	*Handroanthus chrysotrichus*	10"	18'	Buena, Multi-Tallos	Eliminar
21	Roble amarillo	*Handroanthus chrysotrichus*	12"	20'	Buena	Eliminar
22	Laurel de Benjamina	*Ficus benjamina*	10"	24'	Multi-tallos, raíces superficiales	Conservar

23	Caoba Dominicana	*Swietenia mahagoni*	23"	25'	Buena Multi-Tallos	Conservar
24	Caoba Dominicana	*Swietenia mahagoni*	22"	26'	Buena Tronco Bifurcado	Eliminar
25	Caoba Dominicana	*Swietenia mahagoni*	19"	28'	Buena Tronco Lacerado	Conservar
26	Pino Australiano	*Casuarina equisetifolia*	51"	42'	Tronco Lacerado, Raíces Expuestas	Eliminar
27	Reina de las Flores	*Lagerstroemia speciosa*	16"	17'	Buena	Conservar

Tabla # 2 Resumen Inventario de Arboles

Nombre Científico	Cantidad	Eliminar	Conservar
Lagerstroemia speciosa	2	1	1
Swietenia mahagoni	6	2	4
Casuarina equisetifolia	1	1	0
Ficus benjamina	6	0	6
Handroanthus chrysotrichus	3	2	1
Krugiodendron ferreum	2	1	1
Tabebuia heterophylla	1	0	1
Syagrus romanzoffiana	4	Trasplantar	4
Bauhinia monandra	1	0	1
Ficus elástica	1	0	1

Siembra de los Árboles:

- **Proporcionar a los árboles suficiente espacio para que se desarrollen**
- **Siembre los árboles lejos de líneas telefónicas**
- **Se debe hacer un hoyo de un diámetro de 2 pies más que el de la bola de raíces y un pie más hondo que esta.**
- **Ponga suficiente tierra en el centro del hoyo y presionarlo con los pies o la pala para evitar que el tronco se hunda cuando se coloque sobre este.**
- **Saque el árbol del envase y remueva la tela de saco si tuviera.**
- **Coloque el árbol en el agujero a la misma profundidad a la cual creció en el vivero o en el envase.**
- **El agujero se llena con la misma tierra que se extrajo de él, si es adecuada para el crecimiento del árbol.**
- **Asiente la tierra regándola con agua para eliminar espacios de aire.**
- **Amontone tierra a una altura de 6 pulgadas y a una distancia de dos pies del tronco alrededor del árbol para formar un cerco para contener el agua y optimizar el uso de la misma.**
- **Para evitar la pérdida de humedad se debe colocar una capa de viruta de tres pulgadas de espesor y asegurarse que no toca el tronco del árbol, pues esto puede promover enfermedades.**
- **Instale anclajes de ser necesario.**

Recomendaciones para el manejo de árboles

A continuación, se muestran unas especificaciones de manejo de árboles con el propósito de que este documento sea utilizado por el contratista como una guía para el manejo apropiado de los árboles en el campo durante los trabajos de construcción.

<u>Protección de los árboles durante la construcción:</u>

Entre las medidas de protección a los árboles que no serán impactados directamente por los trabajos de construcción, se encuentran:

- **Colocar una verja alrededor de los árboles que van a ser conservados. Esta verja tendrá una altura mínima de 4' de alto y será ubicada a una distancia no menor de la zona de goteo (la extensión máxima horizontal de las ramas de éstos).**
- **Delimitar el área de las actividades de construcción cercanas a estos árboles, tomando como referencia su zona de goteo. Localizar, marcar o rotular los caminos de acceso para el equipo de construcción, el estacionamiento de los trabajadores y el equipo, las áreas de mantenimiento de materiales, grava y arena, para que estas áreas se mantengan fuera de la zona de goteo de los árboles que serán impactados por las actividades de construcción. Esto evitará la compactación del terreno.**
- **Prohibir el depósito de basura, escombros, relleno o cualquier material resultante de la construcción en la zona de goteo del árbol y dentro de la misma hasta el tronco del árbol.**

- **Prohibir cualquier excavación dentro de la zona de goteo del árbol y dentro de la misma hasta el tronco del árbol.**
- **Se implantarán práctica de manejo para los árboles que fueron retenidos y no impactados directamente por la construcción, luego de terminados los trabajos de construcción.**
- **Remover todos los rótulos y verjas protectoras instaladas en el proyecto.**
- **Realizar trabajos de poda de saneamiento en aquellos árboles que hayan podido ser afectados como consecuencias del paso de vehículos por el área. Se entiende por poda de saneamiento, la remoción de ramas rotas, dañadas o secas que tenga el árbol. Esta practica de poda debe ser realizada por una brigada debidamente adiestrada y los trabajos deben ser supervisados por un profesional capacitado.**
- **De ser necesario algún movimiento de tierra que altere la elevación existente donde ubica algún árbol, se construirá un borde, pared o muro permanente alrededor del área afectada para su protección.**
- **Deberá evitarse el corte de raíces siempre que sea posible. No obstante, de esto ser inevitable, será fuera del área de goteo y la parte afectada deberá cubrirse con tierra y regar con agua inmediatamente. Se recomienda la poda de las ramas que sobrepasan a las raíces cortadas para obtener balance entre las raíces y el tope del árbol.**
- **No se permitirá pavimentación alguna, a una distancia menor de cuatro pies (4') del tronco de un árbol existente y que permanecerá como parte del proyecto.**
- **Inspeccionar regularmente para identificar posibles problemas que puedan detectarse en los árboles.**

Mantenimiento

Para el itinerario del mantenimiento de los árboles se recomienda lo siguiente:

- **Riegos prolongados diarios, durante las mañanas o las tardes, cuando la transpiración es menor.**
- **Observar periódicamente los árboles para detectar cualquier cambio, enfermedad o ataque de insectos.**
- **Revisar los anclajes mensualmente: Los recomendados para árboles de 3 pies o más consisten de dos estacas de madera 2 por 2 pulgadas, tan cortas como sea posible, pero de una altura adecuada para que el árbol quede derecho. Las estacas no deben rozar el tronco.**
- **Amare el árbol a un mismo nivel, utilizando una manguera de goma con alambre en su interior, bandas de nylon o cualquier otro material no abrasivo. Amararlo flojo para permitir crecimiento. Los anclajes se utilizarán por el menor tiempo posible, usualmente durante un año.**
- **Mantener el área alrededor de los árboles libre de yerbajos para evitar la competencia por nutrientes y el albergue de insectos que puedan causar o transmitir enfermedades.**
- **No abonar los árboles hasta después del primer año de sembrados. Después del primer año esparza 2-3 onzas de abono de liberación lenta 14-14-14 (Osmocote) dos o tres veces al año.**

6.0 Referencias:

Departamentos de Recursos Naturales y Ambientales. 1998 ***Reglamento de Siembra, Corte y Forestación para Puerto Rico.***

Schubert, T.H. ***Árboles para Uso Urbano en Puerto Rico e Islas Vírgenes.*** **1985. Forest Service. General Technical Report SO- 57.**

Wadsworth F. H., Little E.L., Marrero J. 2001. ***Árboles comunes de Puerto Rico y las Islas Vírgenes.*** **Editorial Universidad de Puerto Rico.**

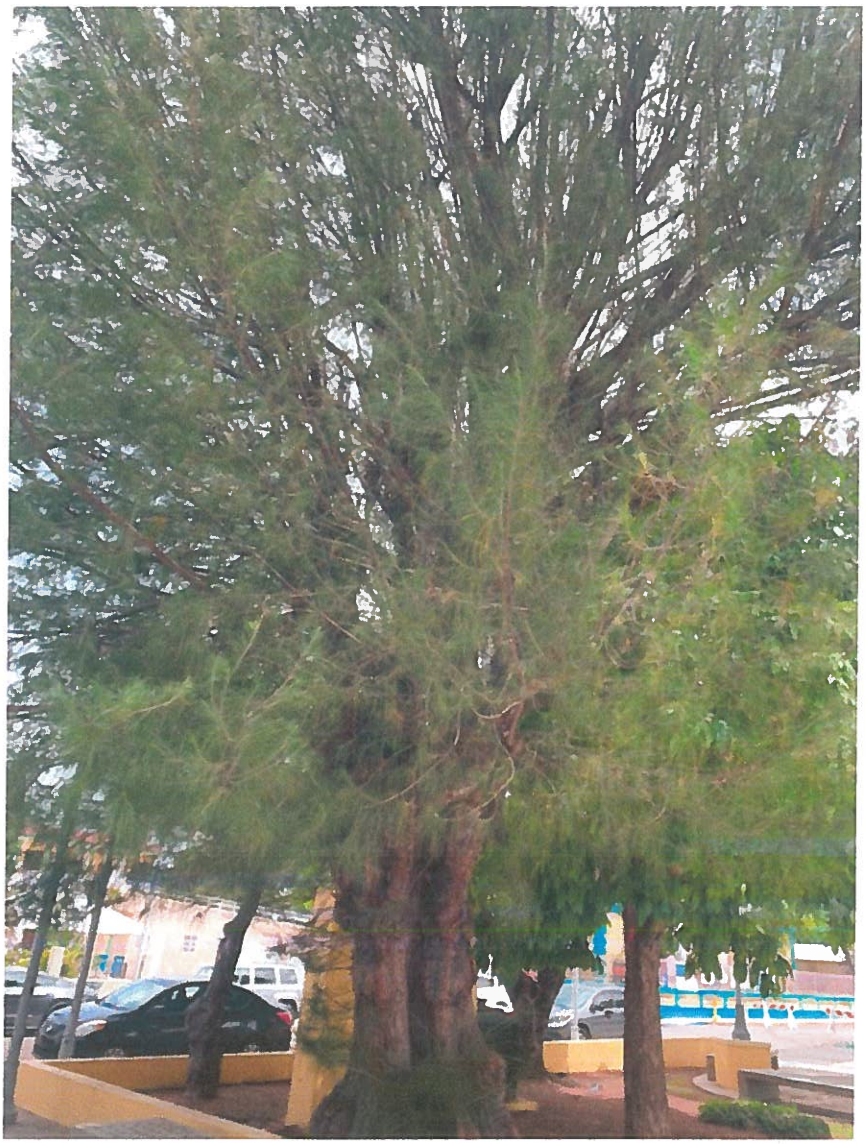
Miner E. 1997. ***Árboles de Puerto Rico y Exóticos.*** **Serie: Puerto Rico Ecológico Vol. I.**

Manual de Forestación Urbana para Puerto Rico. **1998. Consejo Borinquen Reverdece Inc.**

Lilly S. 2001. ***Arborists' Certification Study Guide.*** **International Society of Arboriculture.**

United Stated Fish and Wildlife Service. ***Endangered Species List*** **(Puerto Rico/ Virgin Islands). Division of Endangered Species.**

7.0 Fotos de los Arboles



Árbol # 26
Pino Australiano



Árbol # 4
Reina de Las Flores



Árbol # 10
Árbol de Orquídea



Árbol # 6
Árbol de Goma





Arbol # 13
Roble Nativo



Arboles # 8 y # 9
Palmas Coco Plumosa



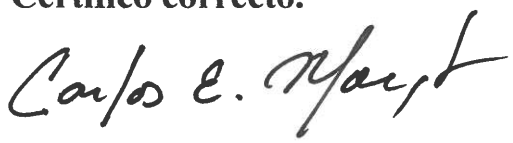




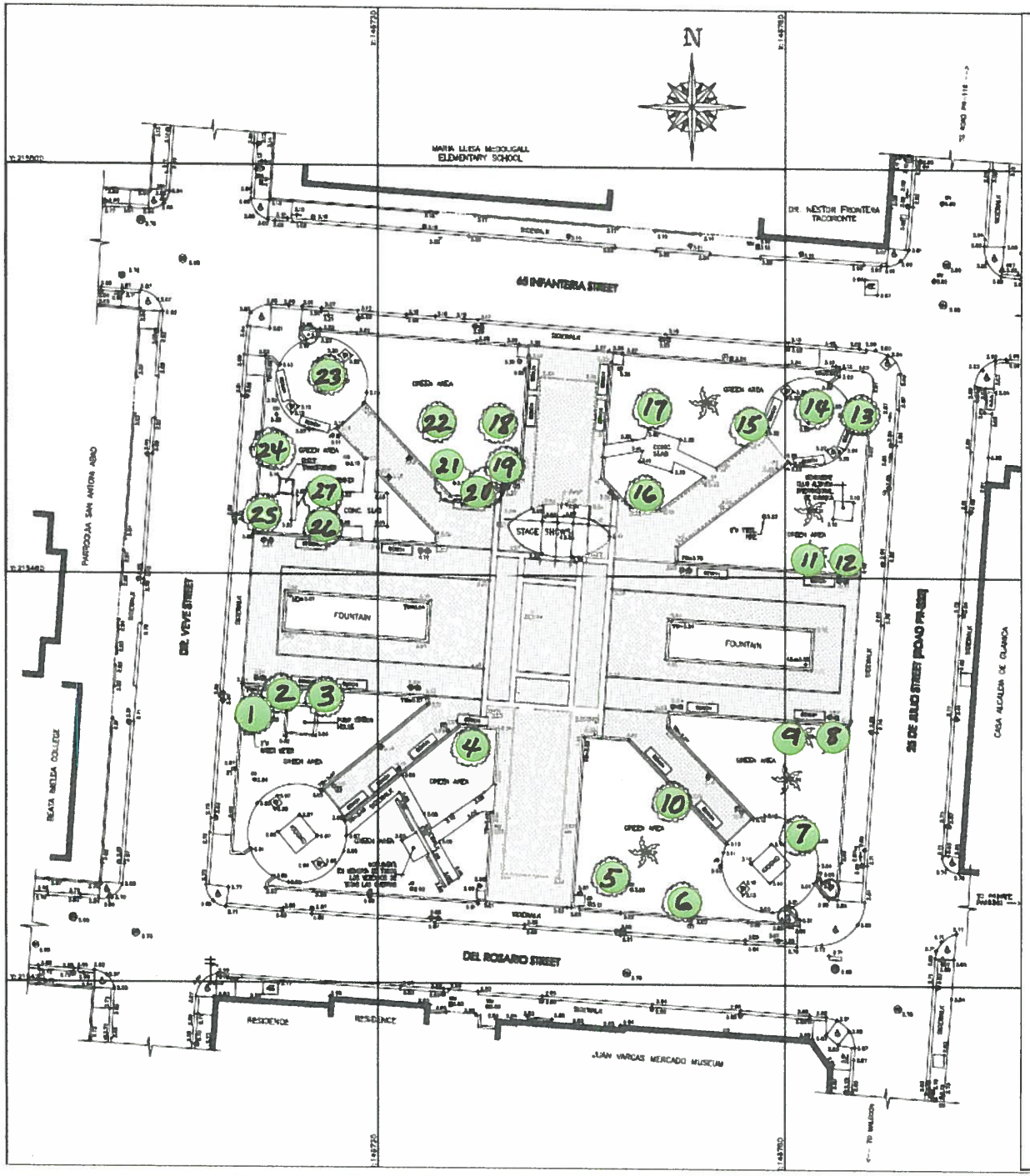
Árbol # 7
Laurel de Benjamina

8.0 Certificación Inspector Autorizado

Certifico correcto.



Agro. Carlos E. Morganti
Inspector de Siembra y Forestación - OGPe
Número de Credencial 48784-IFS-00542



PLANO DE INVENTARIO DE ARBOLES

PLAZA MANUEL JIMENEZ, STATE ROAD PR-332

GUANICA P.R.

LEYENDA

ARBOLES EXISTENTES

NOTA: Para identificación de los arboles existentes referirse al Inventario de Arboles en el Informe escrito.

Certifico Correcto:

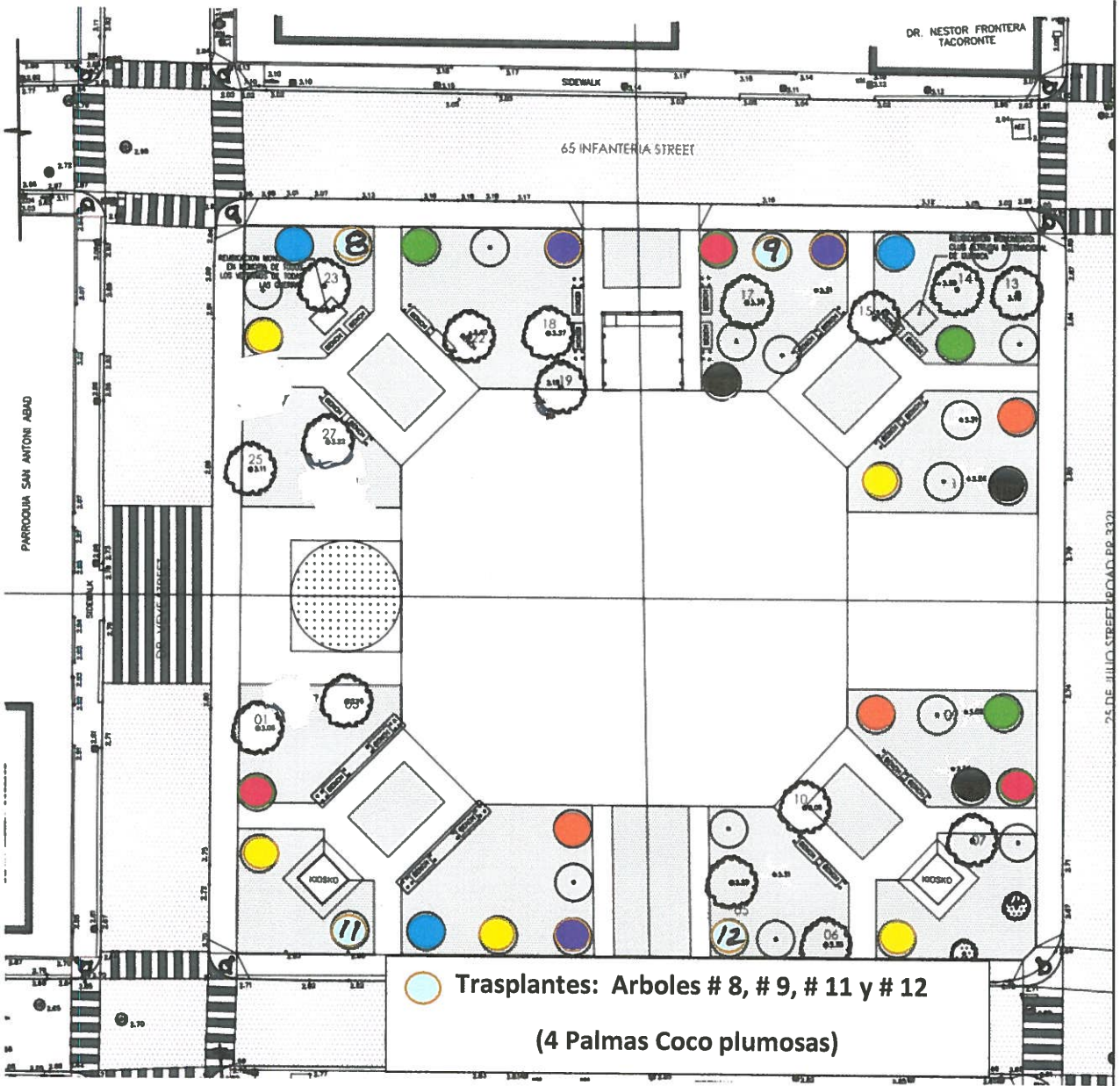
Carlos E. Morganti

Agro. Carlos E. Morganti

Inspector de Siembra y Preservación OGPe

48784-IFS-00542

CARLOS E. MORGANTI YULFO
AGRONOMO LIC. # 2437
BIOLOGO - PSF #1388
PUERTO RICO



PLANO DE SIEMBRA DE ARBOLES

(MITIGACIÓN)

PLAZA MANUEL JIMENEZ,
STATE ROAD PR-332

GUANICA P.R.

ARBOLES A SEMBRAR

ID	NOMBRE COMUN	NOMBRE CIENTIFICO	CANTIDAD	ALTURA
	Almácigo	Bursera simaruba	3	6 pies
	Mariposa	Bauhinia monandra	5	6 pies
	Mangle Botón	Conocarpus erectus	3	6 pies
	Sauco amarillo	Tecoma stans	3	6 pies
	Maga	Thespesia grandiflora	3	6 pies
	Roble Blanco	Tabebuia heterophila	3	6 pies
	Guayacán	Guaiacum officinale	3	6 pies

TOTAL 23 ARBOLES

Certifico correcto:

Carlos E. Morganti

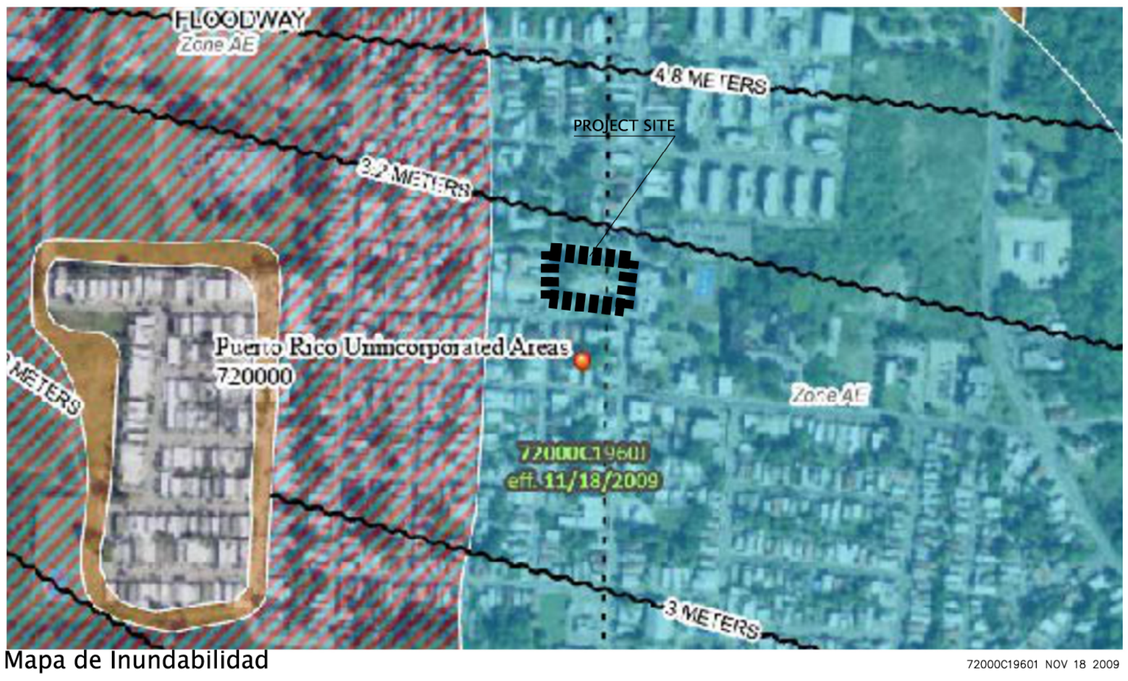
Agro. Carlos E. Morganti

Inspector de Siembra y Forestación DNP

48784-IFS-00542

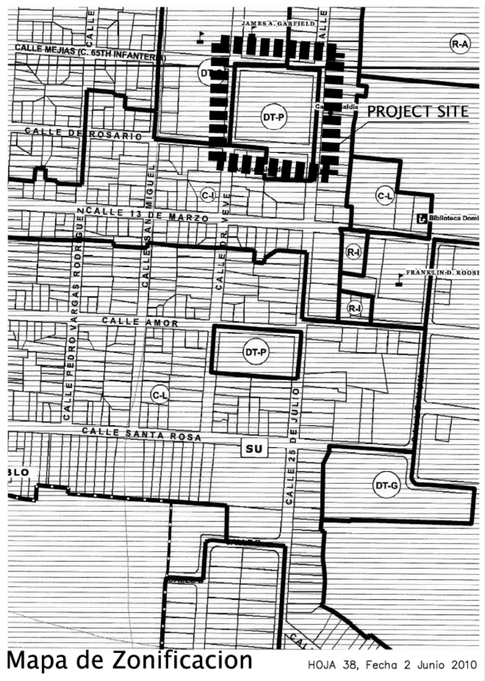
CARLOS E. MORGANTI YULFO
AGRONOMO Lic. #2437
COLEGIO DE AGRONOMOS PUERTO RICO
BIOLOGO - PSF #158
PUERTO RICO

Appendix I: Interdisciplinary Survey Drawings



Mapa de Inundabilidad

72000C19601 NOV 18 2009



Mapa de Zonificacion

HOJA 38, Fecha 2 Junio 2010

Symbols Legend

- Existing Conc. Wall or Conc. Column
- Concrete Wall or Conc. Column
- Concrete Block Wall
- Metal as Marked
- Gypsum Board Wall
- Earth
- Wood Framing (Continuous)
- Plywood
- Insulation, Rigid
- Lath & Plaster
- Carpet
- Letter or Number Designation / Building Ext Elevation / Drawing Number
- WS — Letter or Number Designation / Building Wall Section / Drawing Number
- BS — Letter or Number Designation / Building Section / Drawing Number
- Elevation Number / Interior Elevation / Elevation Number (A200)
- Letter or Number Designation / Detail (Other Drawing) / Drawing Number
- 100 — Room Number Identification
- Window Identification
- Door identification
- Action Item
- Revision Number
- Finish Floor Elevation
- Change in Floor Level
- AD — Area Drain
- Fence (Height & Material)
- Limit of Construction
- Property Boundary
- Match Line
- 2' X 2' Fluorescent Light Fixture
- Incandescent Downlight Fixture
- Track Light Fixture
- 2' X 2' RAR
- A/C Grille
- 14'-0" — Ceiling Height

Indice de Dibujos

Hoja / Descripcion

GENERAL
T-101 . . . TITLE SHEET & INDEX OF DRAWINGS
SU-101 . . . LAND & TOPOGRAPHY SURVEY

DEMOLITION
D-101 . . . DEMOLITION LAYOUTS
D-102 . . . SPARE
D-201 . . . SPARE
D-202 . . . SPARE

ARCHITECTURAL SITE
A-101 . . . ARCHITECTURAL LAYOUTS
A-102 . . . ARCHITECTURAL BLOWUPS
A-103 . . . ARCHITECTURAL BLOWUPS
A-104 . . . ARCHITECTURAL BLOWUPS
A-105 . . . SPARE

CIVIL/SITE
C-1 . . . CES PLAN
C-2 . . . CES DETAILS
C-3 . . . GEOMETRICAL SITE PLAN
C-4 . . . GEOMETRICAL DATA AND TABLES
C-5 . . . SITE DETAILS
C-6 . . . EXIST. TOPOGRAPHY, GRADING, SEWER PLAN
C-7 . . . STORM SEWER SYSTEM DETAILS
C-8 . . . WATER DISTRIBUTION SYSTEM PLAN
C-9 . . . WATER DISTRIBUTION SYSTEM DETAILS
C-9.1 . . . WATER DISTRIBUTION SYSTEM DETAILS

ELECTRICAL
E-000 . . . LEGENDS & NOTES
E-100 . . . ELECTRICAL SITE PLAN
E-200 . . . PANEL SCHEDULE

MECHANICAL
P-101 . . . WATER PLUMBING SITE PLAN
P-102 . . . PLUMBING BLOWUPS
PL-201 . . . PLUMBING NOTES, SCHEDULES & DETAILS

LANDSCAPE
LA-101 . . . PLANTING LAYOUTS
LA-201 . . . SPARE
LA-301 . . . SPARE

Abreviaciones

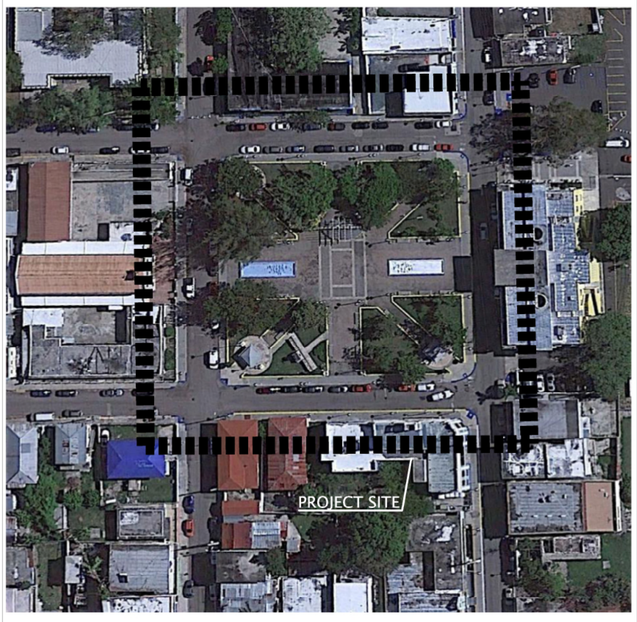
A/C	Air Conditioning	CLOS	Closet	GND	Ground	STL	Steel
ABV	Above	CMU	Conc. Masonry Unit	GYP	Gypsum	STL JST	Steel Joist
ACC	Access	CND	Conduit	GYP BD	Gypsum Board	STL PL	Steel Plate
AC TILE	Acoustical Tile	CNTR	Counter			STOR	Storage
AD	Area Drain	CO	Cleanout	H/C	Handicap(ped)	STRUCT	Structural
ADDL	Additional	COL	Column	HB	Hose Bibb	SUSP	Suspended
ADDM	Addendum	CONC	Concrete	HDWD	Hardwood	SUSP CLG	Suspended Ceiling
A/E	Architect / Engineer	COND	Condition	HDWE	Hardware	SYM	Symbol
AFF	Above Finished Floor	CONF	Conference	HGT	Height		
AFG	Above Finished Grade	CONSTR	Construction	HM	Hollow Metal	TEL	Telephone
AHU	Air Handling Unit	CONT	Continuous	HP	High Point	THRES	Threshold
ALT	Alternate	CONTR	Contract(or)			TMPD GL	Tempered Glass
ALUM	Aluminum	CP	Control Panel	INT	Interior	TOC	Top of Concrete
ANOD	Anodized					TOS	Top of Steel
AP	Access Panel	D	Drain	LP	Low Point	TOW	Top of Wall
APPROX	Approximate	DEMO	Demolition	LTG	Lighting	TYP	Typical
APVD	Approved	DET	Detail				
ARCH	Architect(ural)	DF	Drinking Fountain	MFR	Manufacturer	VAR	Varies
ASPH	Asphalt	DIM	Dimension	MISC	Miscelaneous		
ATS	Auto. Transfer Switch	DN	Down			W	Width
AVE	Avenue	DR	Door, Drive	OFF	Office	WH	Water Heater
AWG	American Wire Gauge			OPNG	Opening	WLD	Welded
		EJ	Expansion Joint			WT	Weight
BLW	Below	EL	Elevation	PCEM	Portland Cement		
BM	Beam	ENAM	Enamel	PLAM	Plastic Laminate		
BOT	Bottom	EQ	Equal	PNT	Paint		
BR	Bedroom	EQUIP	Equipment	PNTD	Painted		
BRZ	Bronze	EXH	Exhaust	PRKG	Parking		
BUR	Built up Roof	EXP	Expansion	PROP	Property		
BVL	Beveled	EXST	Existing				
BW	Both Ways	EXT	Exterior	QT	Quarry Tile		
CAB	Cabinet						
CARP	Carpet	FCU	Fan Coil Unit	REC	Recessed		
CB	Catch Basin	FD	Floor Drain	RECPT	Receptacle		
CEM	Cement	FEXT	Fire Extinguisher	REQD	Required		
CEM PL	Cement Plaster	FFE	Fin. Floor Elev.	RESIL	Resilient		
CER	Ceramic	FIN	Finish(ed)				
CER TILE	Ceramic tile	FIN FL	Finish Floor	SALV	Salvage		
CHAN	Channel	FIN GR	Finish Grade	SCHED	Schedule		
CIP	Cast in Place	FLR	Floor	SF	Square Foot		
CIR	Circle	FURN	Furniture	SHR	Shower		
CJ	Construction Joint			SLNT	Sealant		
CJT	Control Joint	GALV	Galvanized	SQ	Square		
CLG	Ceiling	GC	Gen. Contractor	SQ IN	Square Inch		
CLG HT	Ceiling Height	GL BLK	Glass Block	SST	Stainless Steel		
CLL	Contract Limit Line	GLZ	Glazing	STD	Standard		

Notas Generales:

1. The selection of the General Contractor (GC) and subcontractors is subject to the approval of the Owner.
2. The GC shall provide copies of all information requested by the Owner (i.e. bldg permits, insurance certificates, etc.) prior to beginning Work.
3. The GC shall comlpy with all aplicable codes including the 2012 IBC as well as local codes and ordinances, electrical and plumbing codes, ADA, UFAS, OSHA and any other requirement by Owner.
4. The GC shall submit shop dwgs of all fabricated objects for approval by the Architects / Engineers (A/E) prior to fabrication.
5. The GC shall verify all dimensions on the job siote with all bid documents, notes and dimensions shall be checked and verified with the A/E dwgs. Any discrepancy shall be brought to the immediate attention of the A/E before commencing Work so that necessary corrections are made.
6. Should unforseen conditions be encountered that affect design or function of project, investigate fully and submit an accurate, detailed written report to the A/E. While awaiting the A/E's response reschedule operations if necessary to avoid delay of overall project.
7. The GC agrees with the signing of the contract for construction that he will provide a one-yr warranty for materialas and labor against defects in workmanship, materials, and equipment.
8. The GC shall use only commercial grade materials (i.e. hardware, etc.) unless otherwise noted.
9. Color, texture, size or pattern of finish materials as schedules in drawings shall be selected by A/E.
10. Shop drawings shall be submited to A/E for approval, for all wood furniture such as cabinets, closet doors, counters, and others.
11. The GC shall be responsible of verifying dimensions and spaces where equipment, cabinets, doors, windows, etc. are to be installed before any material is ordered to manufacturers.
12. If GC finds apparent conflicting information over interdisciplinary dwgs/docs set after per bid clarifications period or cannot obtain clarifications from A/E in a timely matter, the GC shall bid with costliest item, and include a clarification note of such action for Owner and A/E consideration in bidding documents.

Imagen de Situacion del Proyecto

(NO A ESCALA)



Alcance de Proyecto

Urban improvements for town square remodeling & upgrade.

Codigos & Leyes Aplicables

reglamentos Aplicables:
International Building Code - 2018
"Reglamento Conjunto de Permisos para Obras de Construccion y Usos de Terrenos" PR Planning Board - 2010
Reglamanto Plan Ordenacion Territorial Municipal (where applies)
American with Disasabilities Act (where applies)

Tipo de Construccion Tipo X
Grupo de Ocupacion X
Niveles de Construccion 1
Extintores de Incendio Manuales 1

Directorio de Proyecto

ARQUITECTOS PROYECTISTAS/GERENTES
TRG ARCHITECTS PSC
BOX 9023795 SAN JUAN PUERTO RICO 00902-3795
TEL. (787) 723-4252

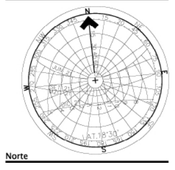
ELECTRICAL, COMMUNICATIONS & SIGNALING ENGINEERS
JUAN R REQUENA ASSOCIATES PSC
PO BOX 191587 SAN JUAN, PR 00919-1587
(787) 763 0655

MECHANICAL, PLUMBING & FIRE PROTECTION ENGINEERS
ADG ENGINEERING
1055 KENNEDY AVENUE SUITE 703 ILA BUILDING
SAN JUAN, PUERTO RICO
(787) 749 8747

CIVIL ENGINEERING CONSULTANT
KLEIN ENGINEERING
CIVIL ENG. CONSULTING SERVICES
500 AVENIDA MUNOZ RIVERA
OFICINA 221-A
HATO REY, PR 00918
(787) 644 4789

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:
1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL DE TRG. CUALQUIER USO, REPRODUCCION O UTILIZACION DE ESTOS SIN EL CONSENTIMIENTO ESCRITO DE TRG ESPECIFICAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.
2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y QUE ESTOS PLANOS Y ESPECIFICACIONES HAN SIDO PREPARADOS BAJO MI ENTERO DESCANSO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL RECLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DE CONSTRUCCION OBJETO DE ESTOS PLANOS Y ESPECIFICACIONES SI HA CUMPLIDO O CUMPLIMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE SEPTIEMBRE DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY NUM. SEGUN ENMENDADA, SEGUN APLICA. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTOS O TAMPACIDOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPr.



nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	01.15.23	Desarrollo Diseno Preliminar	
03	07.15.23	Desarrollo Documentos Construccion	

Desarrollo de Diseno Esquematico

Hoja de Tirulo
Indice Dibujos

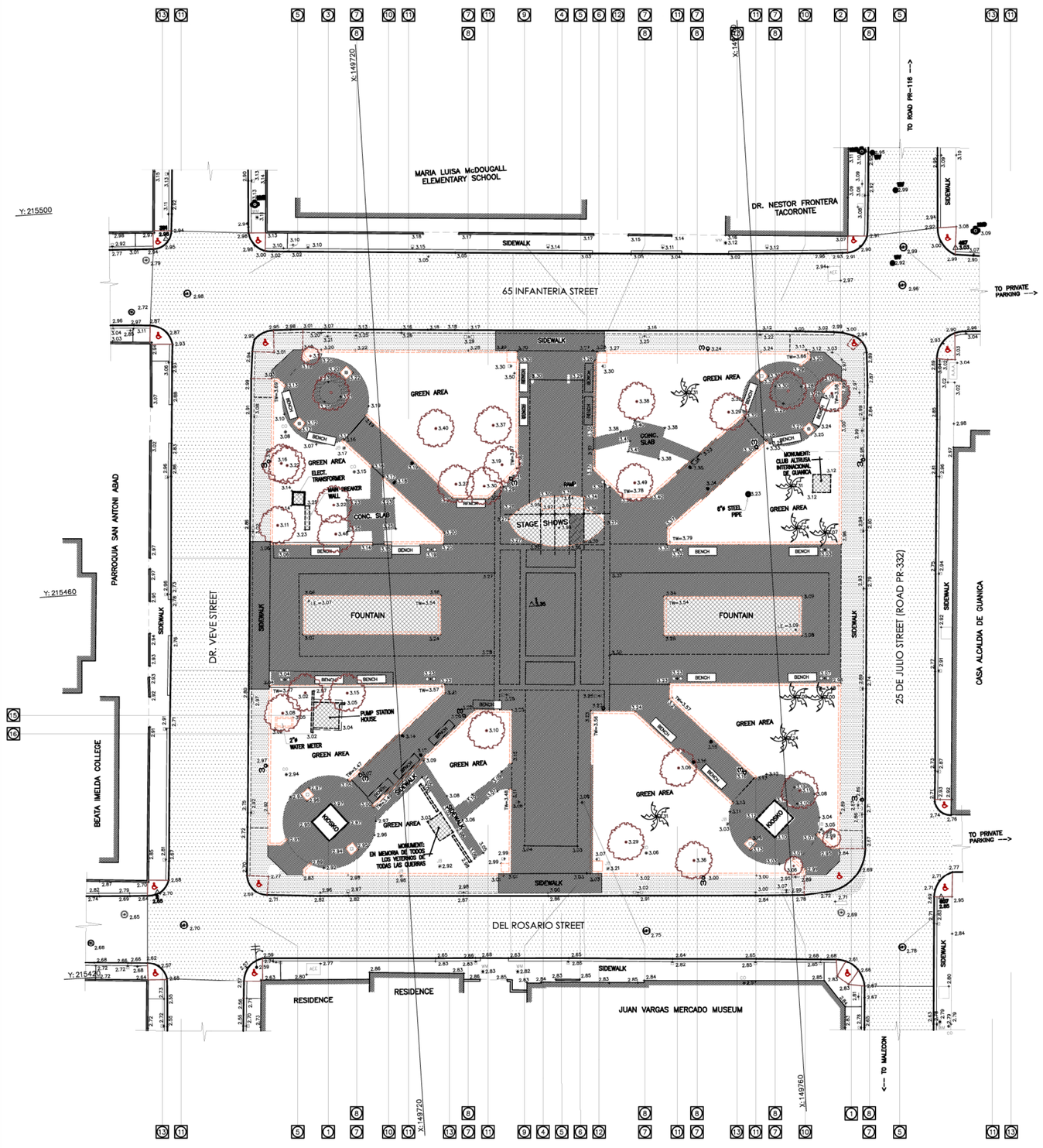
drawn by ER
checked by ER
file 22260 T101
plot scale 1=1
trg num 22260

drawing sheet number:
T101

Desarrollo de Documentos de Cosntruccion para las Mejoras a:

Plaza Manuel Jimenez Mesa

Barrio Pueblo Municipio de Guanica, Puerto Rico



Planta demolicion propuesta

Scale 1/4" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

- A PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.
- B TEMPORARY CONSTRUCTION BARRICADE, AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.
- C REINFORCED CONCRETE TRANSITION BORDER, AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.
- D NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.
- E NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.
- F EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.
- G REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.
- H REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE. PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.
- I STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.
- J NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.
- K NEW GRANITE BOLLARDS, REFER TO NOTES & DETAILS.
- L NEW CONTAINER AREA, REFER TO NOTES & DETAILS.
- M NEW INTERPRETATIVE PEDESTAL, (BY OTHERS)
- N REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED, REFER TO NOTES & DETAILS.

NEW PAVEMENT LEGEND

- NEW ROADWAY ASPHALT PAVEMENT RESURFACING.
- NEW ROADWAY CEMENTITIOUS FINISH.
- NEW PEDESTRIAN CROSSING STRIPS.
- NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.
- NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL DE TRG. CUALQUIER USO, REPRODUCCION O MODIFICACION PARA PROPOSITOS DIFERENTES A LOS ORIGINALMENTE INTENDIDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA REPRODUCCION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO UNICAMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY PARA LA INVERSION", SEGUN ENMENDADA, SEGUN APLIQUE. RECONOCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

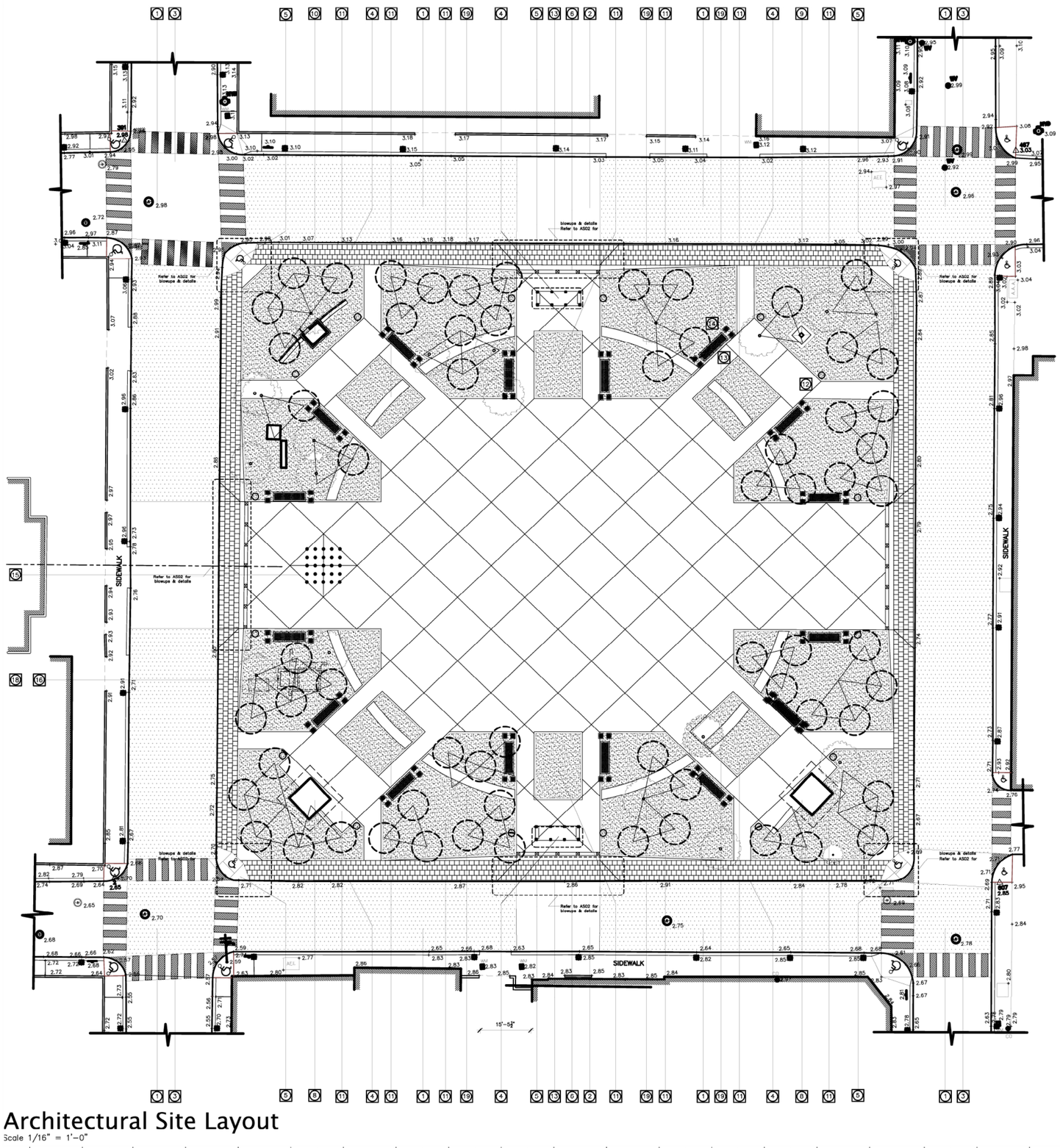
#	fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
02	01.19.23	Desarrollo Diseno Preliminar	ER
03	07.14.23	Desarrollo Docs Construccion	ER

Desarrollo de Diseno Esquematico

Plantas de Sitio demolicion

drawn by ER
checked by ER
file 22260 DS01
plot scale 1=1
trg num 22260

drawing sheet number:
DS01



Architectural Site Layout

Scale 1/16" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. NEW ASPHALT ROADWAY PAVEMENT AREAS.
2. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
3. NEW PEDESTRIAN CROSSING STRIPS.
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
8. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
9. "ALTRUSA" MONUMENT TO BE RELOCATED.
10. GUANICA VETERANS MONUMENT TO BE RELOCATED, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
11. NEW LANDSCAPING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN, AND SHALL COORDINATE TRESS TO BE REMOVED & RELOCATED OR DISCARDED. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (REFER TO LANDSCAPING PLAN)
12. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS. (REFER TO LANDSCAPING PLAN)
13. NEW METAL PERGOLATED GARDEN GAZEBO. (SEE DETAILS)
14. NEW WASTE RECEPTACLES MODEL "PAPER-INA" BY ESCOFET OR APPROVED EQ. (16 UNITS)
15. NEW CONCRETE BENCHES, MODEL "MAYO" BY ESCOFET OR APPROVED EQ. (16 UNITS) COORDINATE WITH EXISTING UNITS.
16. NEW METAL PERGOLAS MODEL VIA-LACTEA BY ESCOFET OR APPROVED EQ. (16 UNITS, REFER TO DETAILS.)
17. NEW WALK THRU FOUNTAIN FEATURE FIAC SERIES 2000 BY FOUNTAIN PEOPLE INC. (25 NOZZLES) OR APPROVED EQ.
18. NEW WALK THRU FOUNTAIN SELF DBBV-SERIES DIRECT BURIAL VAULT SYSTEM BY FOUNTAIN PEOPLE INC. OR APPROVED EQ.
19. NEW WATER CISTERN.
20. NEW LIGHT FIXTURES. (REFER TO ELECTRICAL DRAWINGS)
21. NEW PEDESTRIAN TRAIL.(REFER TO LANDSCAPING PLAN)
22. SPARE.

NEW PAVEMENT LEGEND

- NEW ROADWAY ASPHALT PAVEMENT RESURFACING.
- NEW ROADWAY CEMENTITIOUS FINISH.
- NEW PEDESTRIAN CROSSING STRIPS.
- NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.
- NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE PARTE O LA TOTALIDAD DEL MISMO QUEDA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. REIGS MARTINEZ, LICENCIA NUMERO 13556, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES DE LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA, ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA. LEY 96 DE 6 DE JULIO DE 1976, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FRAUDULENTA EN RELACION CON ESTE PROYECTO PUEDE SER CASTIGADO POR DESACATO O PERJURIO CONFORME A LA LEY POR MI, NO AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, NI HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPE.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

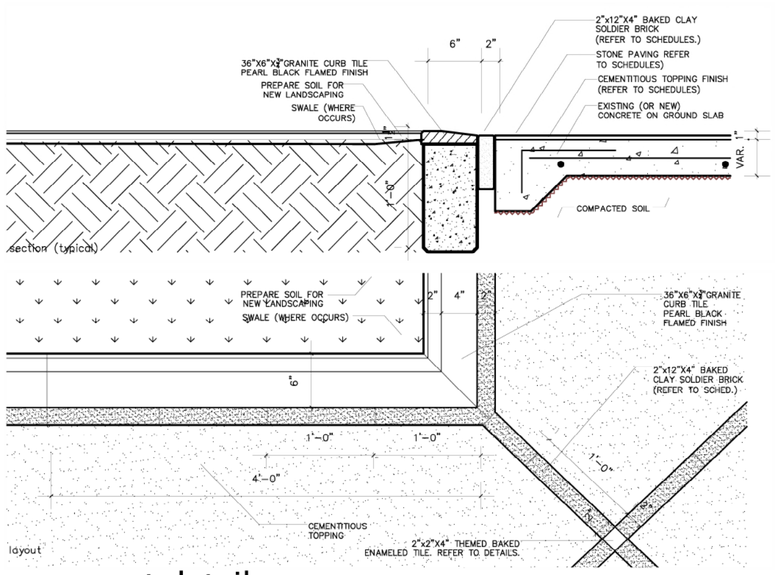
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquemalico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Plantas Arquitectonicas Propuestas

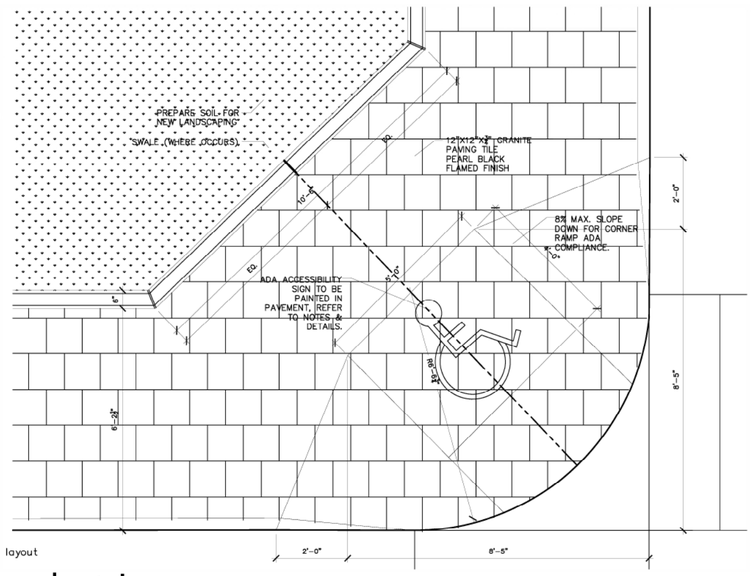
drawn by ER
checked by ER
file 22260 AS01
plot scale 1=1
trg num 22260

drawing sheet number:
AS01



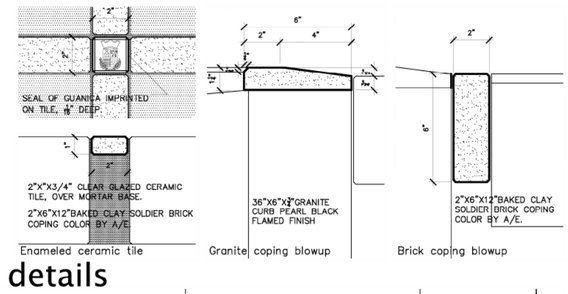
pavement detail

Scale 1 1/2" = 1'-0"



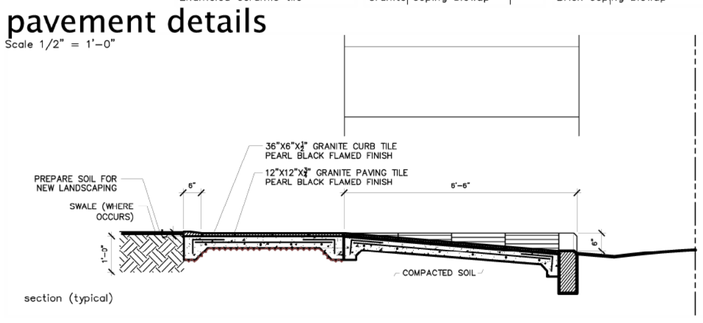
pedestrian corner ramp

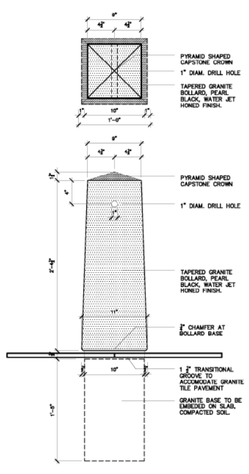
Scale 1/2" = 1'-0"



pavement details

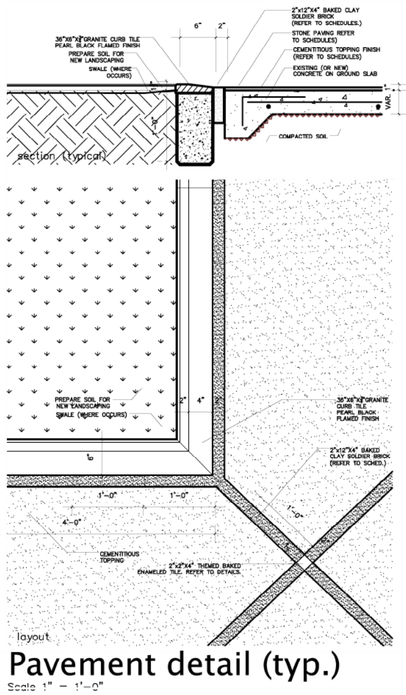
Scale 1/2" = 1'-0"





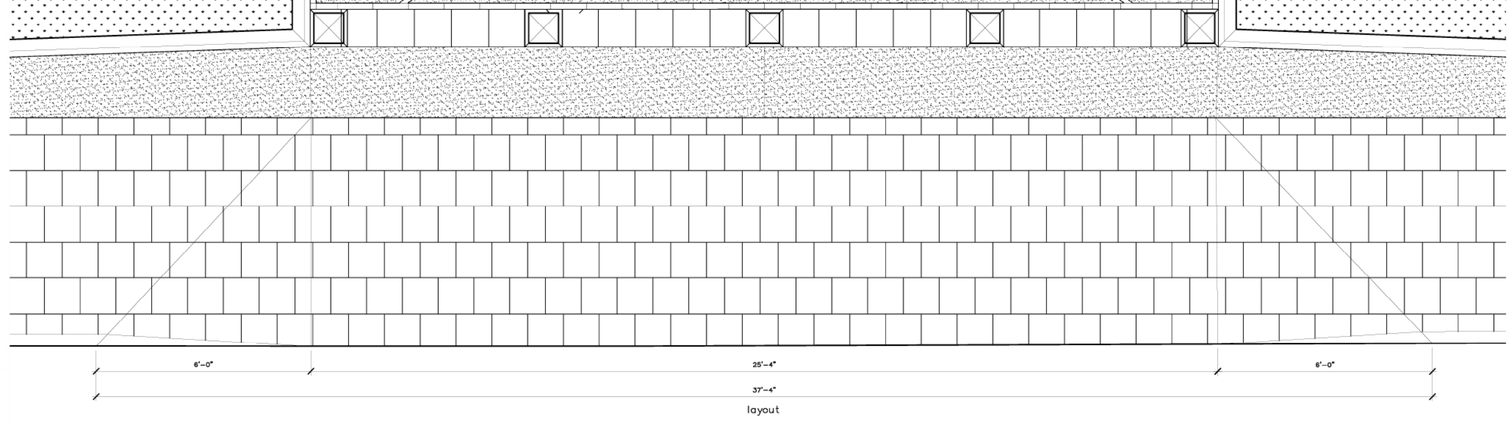
Stone bollard

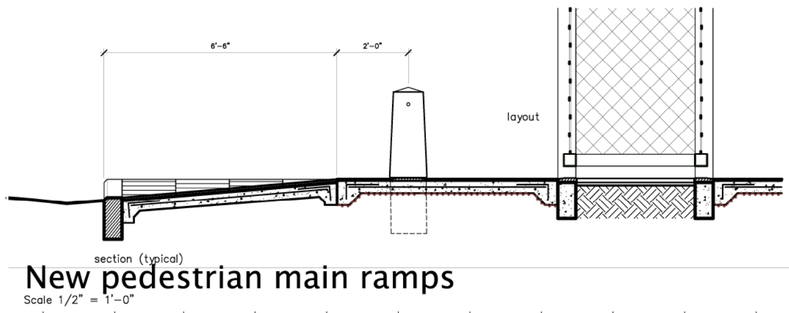
Scale 1" = 1'-0"



Pavement detail (typ.)

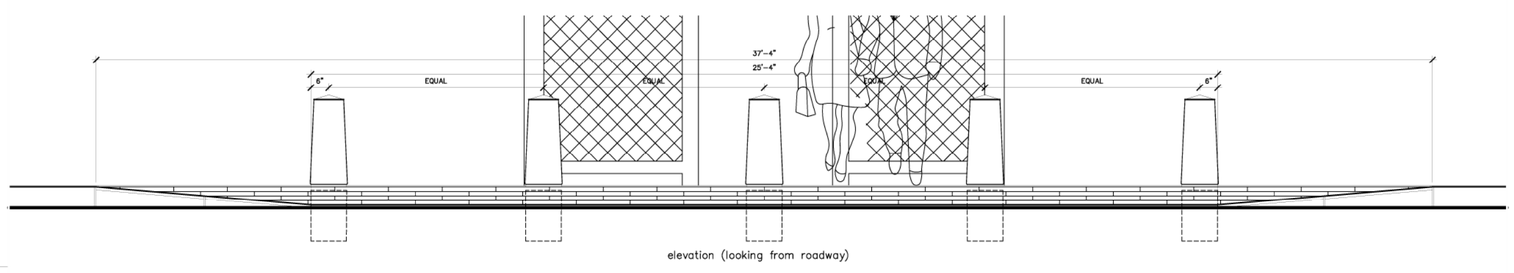
Scale 1" = 1'-0"





New pedestrian main ramps

Scale 1/2" = 1'-0"



trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL ARCHITECTS PVC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE SOMETO ESTOS PLANOS Y ESPECIFICACIONES PARA CONSTRUCCION. ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASUMO LA RESPONSABILIDAD DE QUE EL DISEÑO QUE REFLEJAN ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO Y CUMPLIRA CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY PARA LA CASA, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

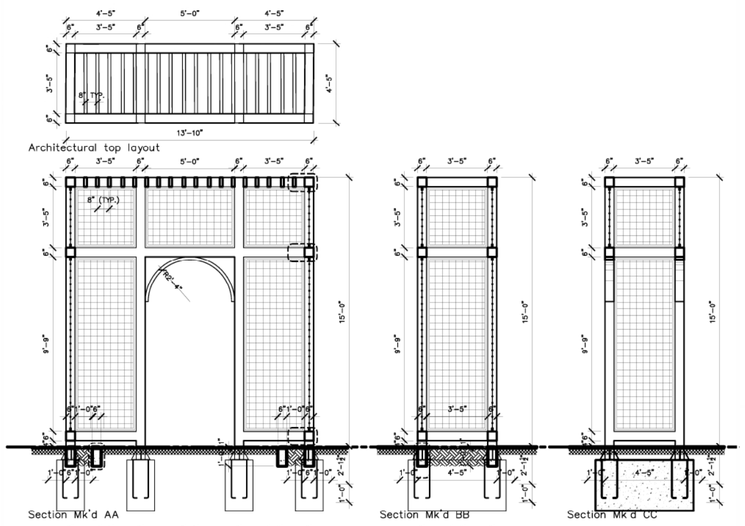
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

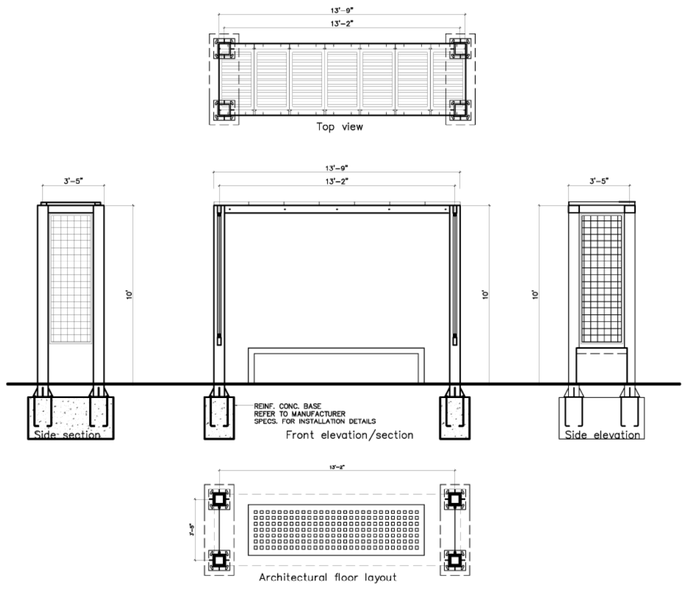
Desarrollo Documentos Construccion

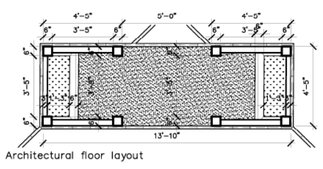
Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS02
plot scale 1=1
trg num 22260

drawing sheet number:
AS02





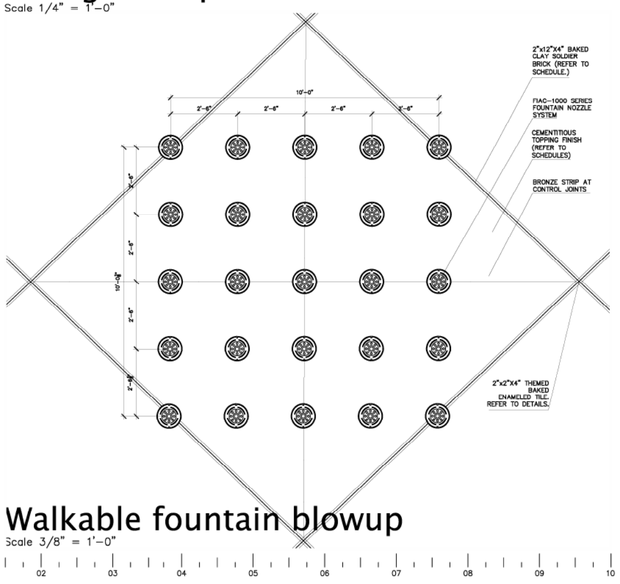


New garden pavilion

Scale 1/4" = 1'-0"

New pergola at relocated bench

Scale 1/4" = 1'-0"



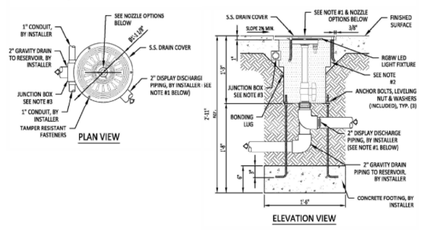
Walkable fountain blowup

Scale 3/8" = 1'-0"

FIAC-1000 Fountain-In-A-Can Fountain Nozzle System

Description information:
FIAC-1000 Series UL Listed Fountain-in-a-Can is a "pour in place" assembly containing a flush mount spray effect and 360 degree illuminating LED light fixture. The assembly can be utilized for plaza style water features or may be used for interactive splash pads.

Product specification:
FIAC-1000 Series UL Listed Fountain-in-a-Can, a "pour in place" flush mount spray effect with 360 degree light
fixture. The assembly includes a stainless steel housing with 1/4" thick stainless steel drain cover and contains
1. interchangeable fountain nozzle, 360-degree 24V, 36 Watt, LED ring light with colored RGBW diodes, manual adjustment valve, junction box, bonding lug, 2" inlet connection, 2" drain connection, and (2) 1" conduit connection for light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.



Fountain nozzle system

Scale 3/8" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

A. PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.

B. TEMPORARY CONSTRUCTION BARRICADE, AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.

C. REINFORCED CONCRETE TRANSITION BORDER, AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.

D. NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.

E. NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.

F. EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.

G. REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.

H. REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE. PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.

I. STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.

J. NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.

K. NEW GRANITE BOLLARDS, REFER TO NOTES & DETAILS.

L. NEW CONTAINER AREA, REFER TO NOTES & DETAILS.

M. NEW INTERPRETATIVE PEDESTAL, (BY OTHERS)

N. REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED, REFER TO NOTES & DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL ARCHITECTS PVC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE ESTOS PLANOS SIN EL CONSENTIMIENTO ESCRITO DE LOS ARQUITECTOS ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE ESTOS PLANOS SON EL PRODUCTO DE MI DISEÑO PROFESIONAL Y ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. ASIMISMO, CERTIFICO QUE DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y CUMPLIRA CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY DE PATENTES", SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACINTES O PARTE FACIOL O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPr.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

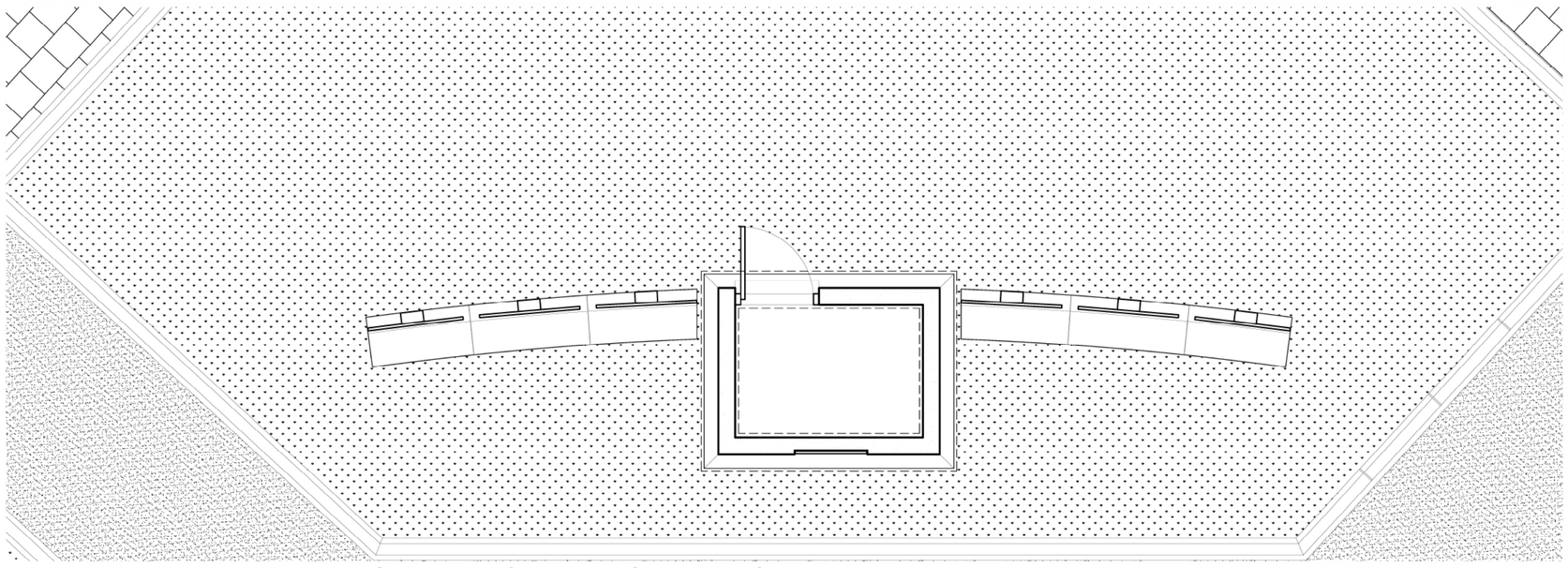
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

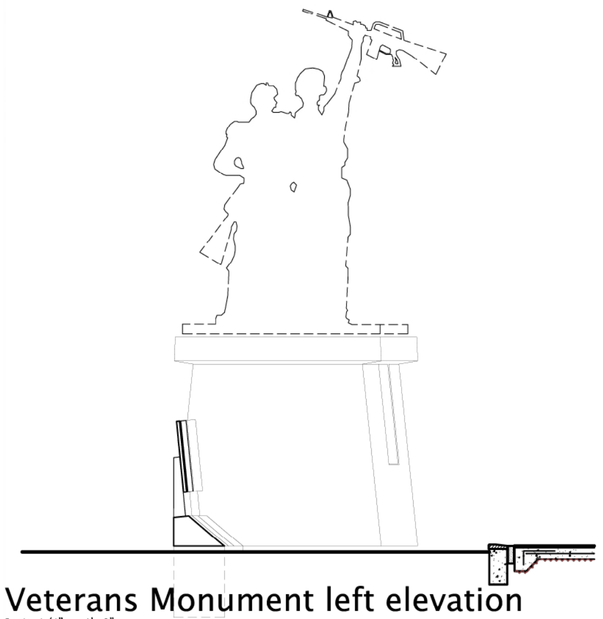
Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS03
plot scale 1=1
trg num 22260

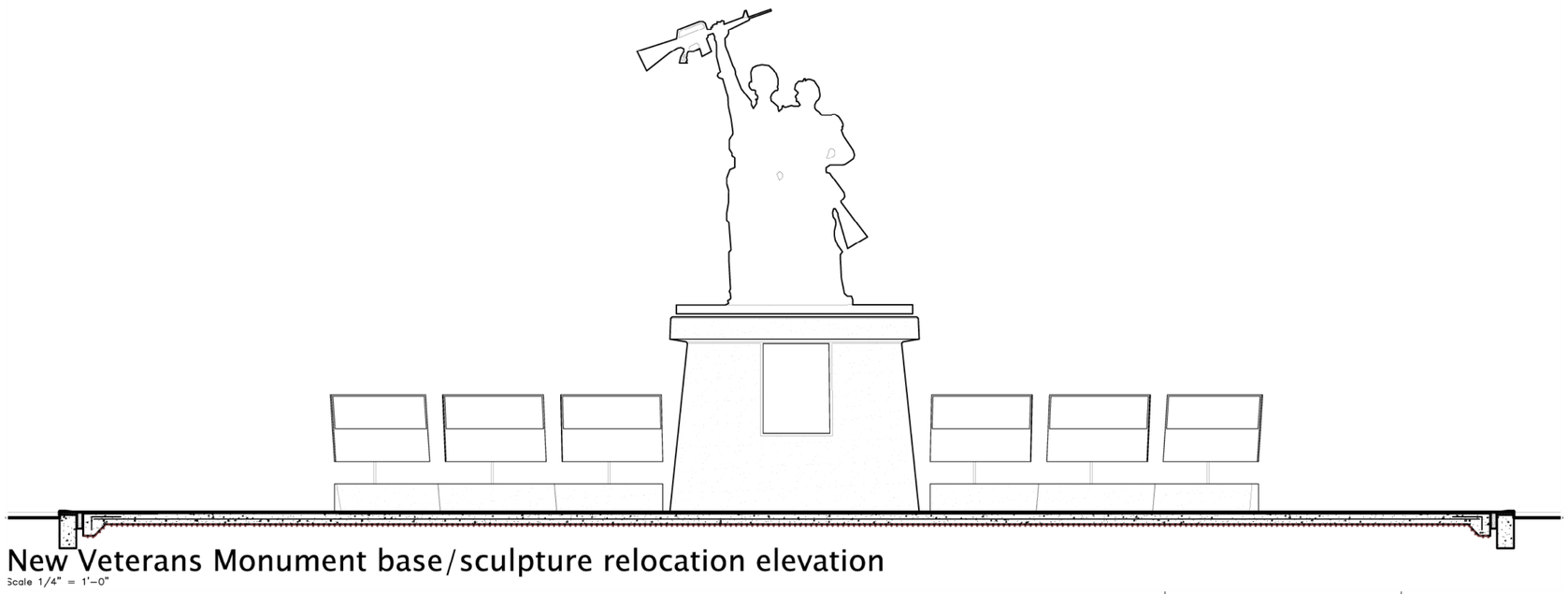
drawing sheet number:
AS03



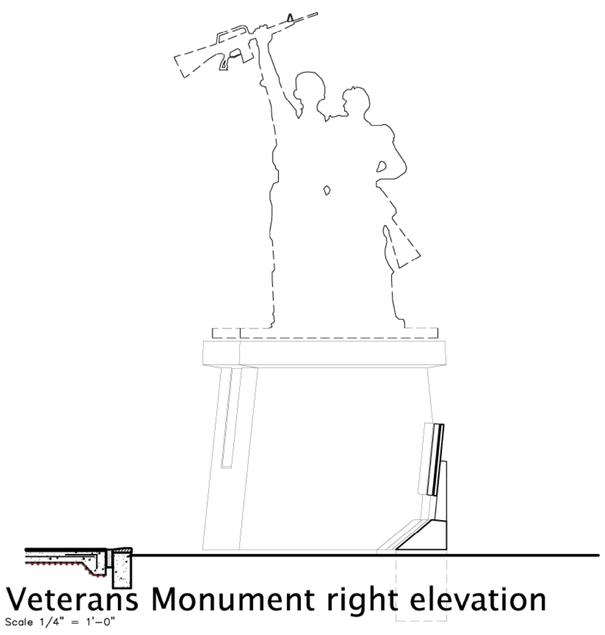
New Veterans Monument base/sculpture relocation layout
Scale 1/4" = 1'-0"



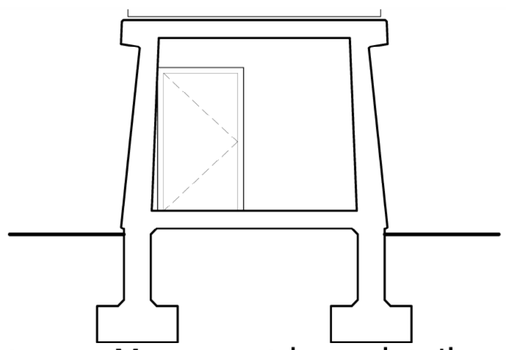
Veterans Monument left elevation
Scale 1/4" = 1'-0"



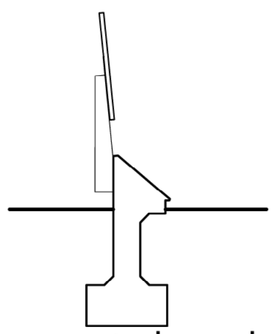
New Veterans Monument base/sculpture relocation elevation
Scale 1/4" = 1'-0"



Veterans Monument right elevation
Scale 1/4" = 1'-0"



Veterans Monument base detail
Scale 3/4" = 1'-0"



Veterans Monument plaque base detail
Scale 3/4" = 1'-0"

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PVC. CUALQUIER USO, REPRODUCCION O DISTRIBUCION DE ESTE DOCUMENTO SIN EL CONSENTIMIENTO EXPRESO ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y QUE, A MI LEAL SABER Y ENTENDER, ESTOS PLANOS Y ESPECIFICACIONES QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL RECLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY DEL CPA, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OCPA.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	7.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS04
plot scale 1=1
trg num 22260

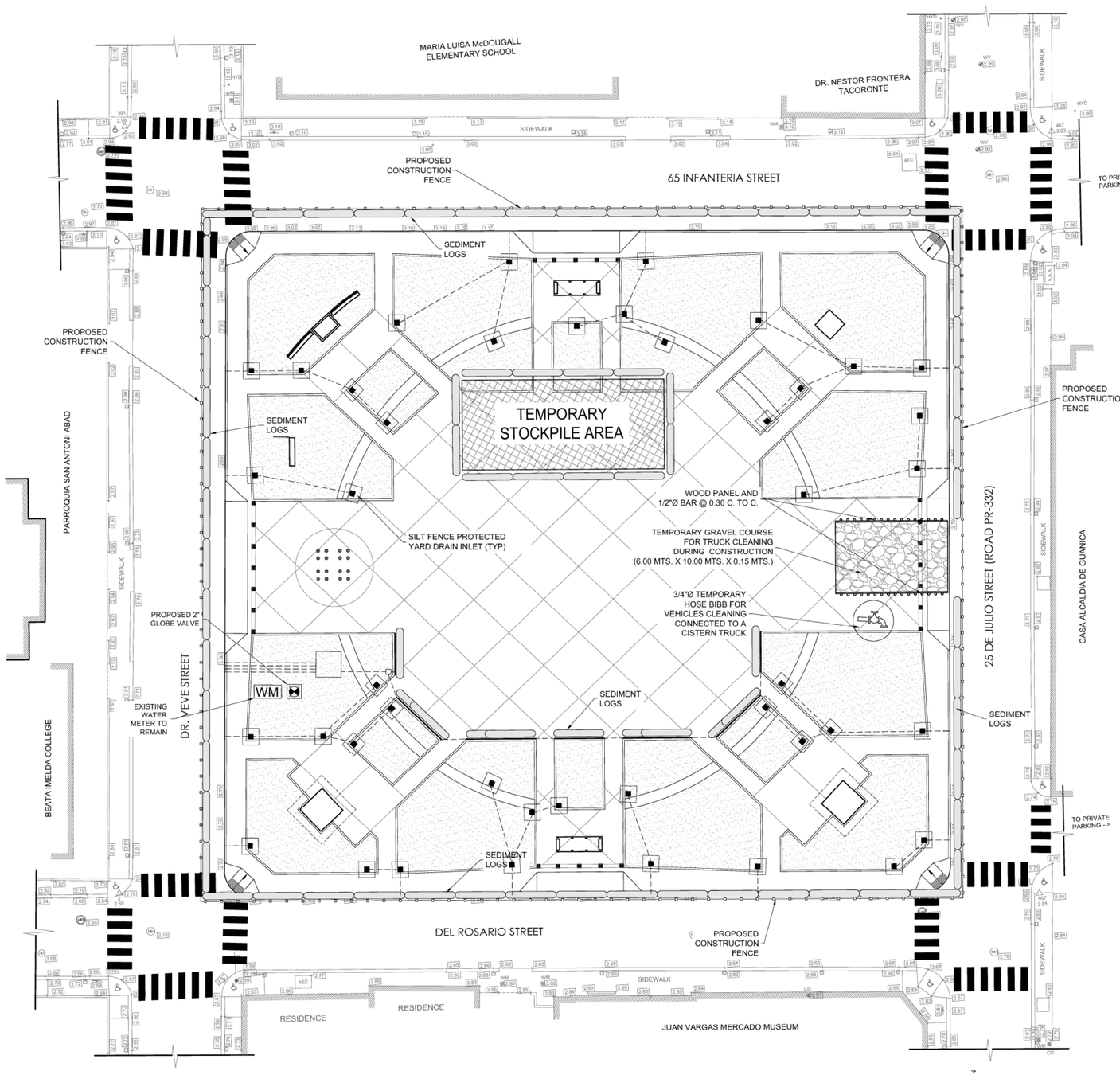
drawing sheet number:
AS04

CES PLAN NOTES:

1. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SWALES, AND CHANNELS THAT ARE NEAR THE PROJECT AREA PRIOR TO COMMENCING ANY EXCAVATION. PROTECTION FOR CATCH BASINS, SWALES, AND CHANNELS MAY BE REMOVED WHEN THE LOCAL INSTALLATION IS COMPLETED. SEE INSTALLATION DETAILS IN THESE DRAWINGS.
2. CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL AT THE NEAREST APPROVED FACILITY NO LATER THAN TWO (2) CALENDAR DAYS AFTER REMOVAL.
3. CONTRACTOR SHALL RESTORE ALL PAVED AREAS AND RE-SEED GRASS AREAS NO LATER THAN 24 HOURS AFTER WORK IS COMPLETED, OR AS INSTRUCTED BY THE ENGINEER.
4. CONTRACTOR SHALL INSPECT SEDIMENT BARRIERS AFTER EACH RAIN EVENT AND REPAIR THEM IMMEDIATELY AFTERWARDS. SEDIMENT SHALL BE REMOVED FROM THE BARRIERS WHEN THEY REACH HALF ITS HEIGHT.
5. CONTRACTOR SHALL REFER TO THE ER SERIES OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY'S (PRHTA) STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND APPLICATIONS REGARDING EROSION AND SEDIMENT CONTROL.
6. NO FILL SHALL BE STORED WITHOUT COMPACTION FOR MORE THAN SEVEN (7) CALENDAR DAYS.
7. TRUCKS AND OTHER MOBILE CONSTRUCTION EQUIPMENT SHALL HAVE THEIR WHEELS CLEANED AT ESTABLISHED CLEANING AREAS BEFORE EXITING THE PROJECT.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES PRESENTED ON THESE PLANS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVEMENT ACTIVITIES.
9. IF NEEDED, A DEWATERING BAG SHALL BE INSTALLED AT LOCATIONS INDICATED BY THE ENGINEER. THE DEWATERING BAG USED SHALL BE SEDCATCH OR SIMILAR. FOR ADDITIONAL INFORMATION, CONTACT SEDCATCH, WWW.SEDCATCH.COM.
10. SILT FENCES SHALL BE CONSTRUCTED USING GEOTEXTILE CLASS "A" IN COMPLIANCE WITH SPECIFICATION 712.
11. CONTRACTOR SHALL NOT PERFORM OIL CHANGES AT ANY TIME ON SITE. FURTHERMORE, IF ANY OIL SPILLS OCCUR DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL IMMEDIATELY SECURE THE AREA AND DISPOSE OF CONTAMINATED MATERIAL FOLLOWING ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
12. EROSION AND SEDIMENT CONTROL PLAN MEASURES SHALL BE INSPECTED AND REPAIRED TO ORIGINAL CONDITIONS AFTER EACH RAINFALL EVENT THAT EXCEEDS 2" IN 24 HOURS.
13. SEDIMENT SHALL BE REMOVED, AND ALL EROSION CONTROL MEASURES RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH.
14. EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA STABILIZED UPON COMPLETION OF WORK.

CES LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- PROPOSED CONSTRUCTION FENCE
- SEDIMENT LOG
- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION (7.30 MTS. X 10.00 MTS. X 0.15 MTS.)
- 3/4"Ø TEMPORARY HOSE BIBB FOR TRUCK CLEANING
- SILT FENCE AROUND YARD DRAIN INLET



N

CES PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO ESCRITO ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 23124**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE LOS MISMOS HAN SIDO PREPARADOS BAJO MI SUPERVISION, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DISEÑADA EN EL MOMENTO DE ESTOS PLANOS Y CERTIFICACIONES, SE HA CUMPLIDO Y ANALIZADO CON LO DISPUESTO EN LA LEY 14 DE 6 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, CONOCIDA COMO LA "LEY PARA LA SEGURIDAD, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS. AGENTES, O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

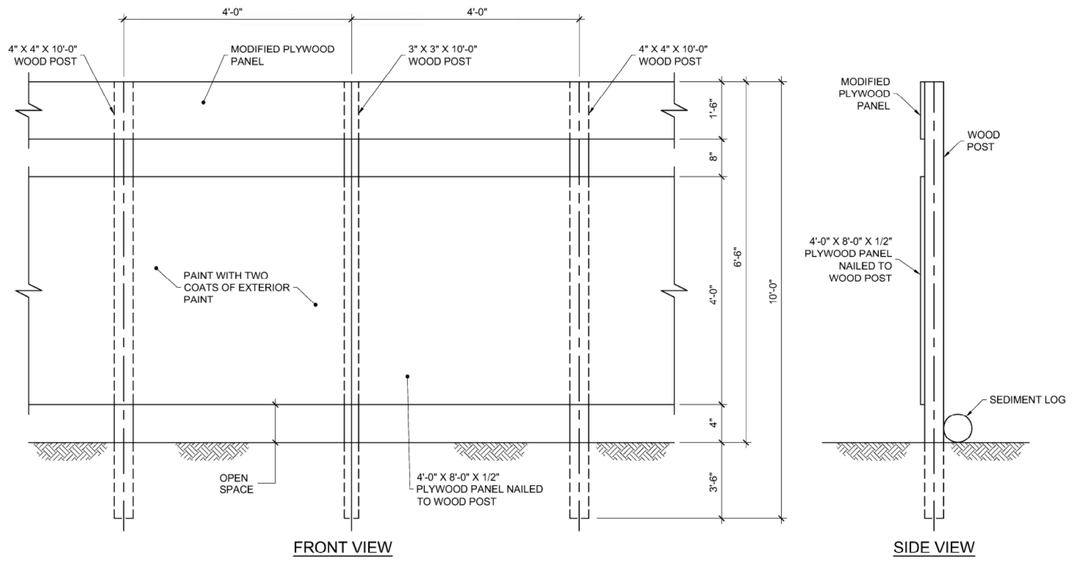
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

CES PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

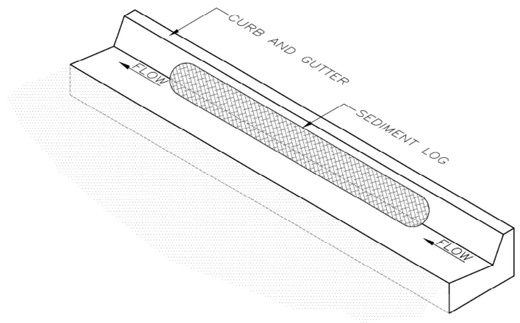
C-1



FRONT VIEW

SIDE VIEW

TEMPORARY CONSTRUCTION FENCE



SEDIMENT LOG DETAIL

POSTS: 2 X 4 WOODEN STAKE
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENING
FABRIC: IN ACCORDANCE WITH ASTM D 6461 LATEST EDITION

NOTES:

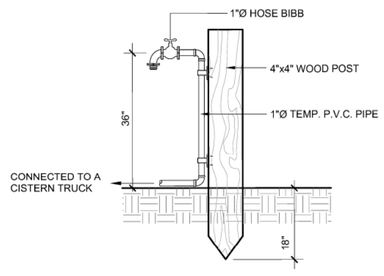
1. ATTACH THE WOVEN WIRE FENCE AND THE GEOTEXTILE TO EACH POST (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC.
4. ALL SILT FENCE INLET PROTECTIONS SHALL INCLUDE WIRE SUPPORT.

MAINTENANCE NOTES:

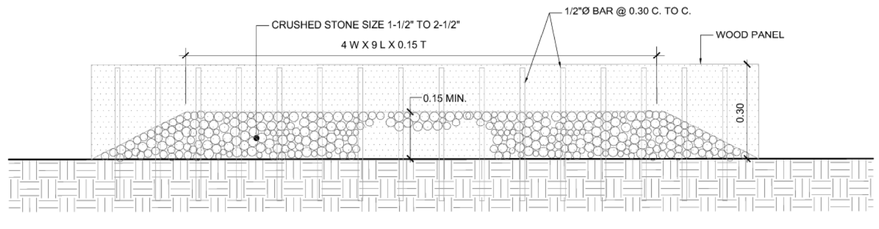
1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

SILT FENCE INLET PROTECTION

N.T.S.



TEMP. HOSE BIBB DETAIL



TRUCK WASHING FACILITIES

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO DE EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE, A MI LEAL SABER Y ENTENDER, ESTOS PLANOS Y ESPECIFICACIONES, SE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ESTOY CONSCIENTE DE QUE CUALQUIER ENMIENDA O MODIFICACION DE ESTOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 21004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA"" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY NOTARIAL SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA CGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	-

Documentos de Construccion

CES DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-2

LEGEND:

PROPERTY LINE

SURVEY PROPERTY POINTS

SLOPE PATTERN

L1 or C1 ALIGNMENT ID

COORDINATES ID

KEY NOTES ID

CROSSWALK

ACCESIBLE RAMP

GENERAL NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS, AND OTHER RELATED PLANS, HAS BEEN PREPARED CONSIDERING THE INFORMATION INCLUDED IN THE FOLLOWING PLAN(S): "AS-BUILT PLAN PLAN OF PLAZA PUBLICA MANUEL JIMENEZ DE GUANICA" PREPARED BY SURVEYOR , LIC.NO 7528. AND DATED JULY 11,2022.

3. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT, SIDEWALKS AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, THE CONTRACTOR SHALL REPAIR ANY AFFECTED AREA OF ASPHALT PAVEMENT BY PERFORMING A 2" COLDMILLING AND REPAVE WITH 2" OF HOT PLANT MIX BITUMINOUS ASPHALT TYPE S(75).

4. HORIZONTAL CONTROLS ARE REFERRED TO THE PUERTO RICO LAMBERT COORDINATE SYSTEM [NAD 83 (2011/PA11/MA 2011) EPOCH 2010.00].

5. ELEVATIONS ARE REFERRED TO PUERTO RICO VERTICAL DATUM 2002 (PRVD02).

6. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY, THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

7. FOR SITE DETAILS, REFER TO DWG. C-5 TO C-5.2.

8. PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.

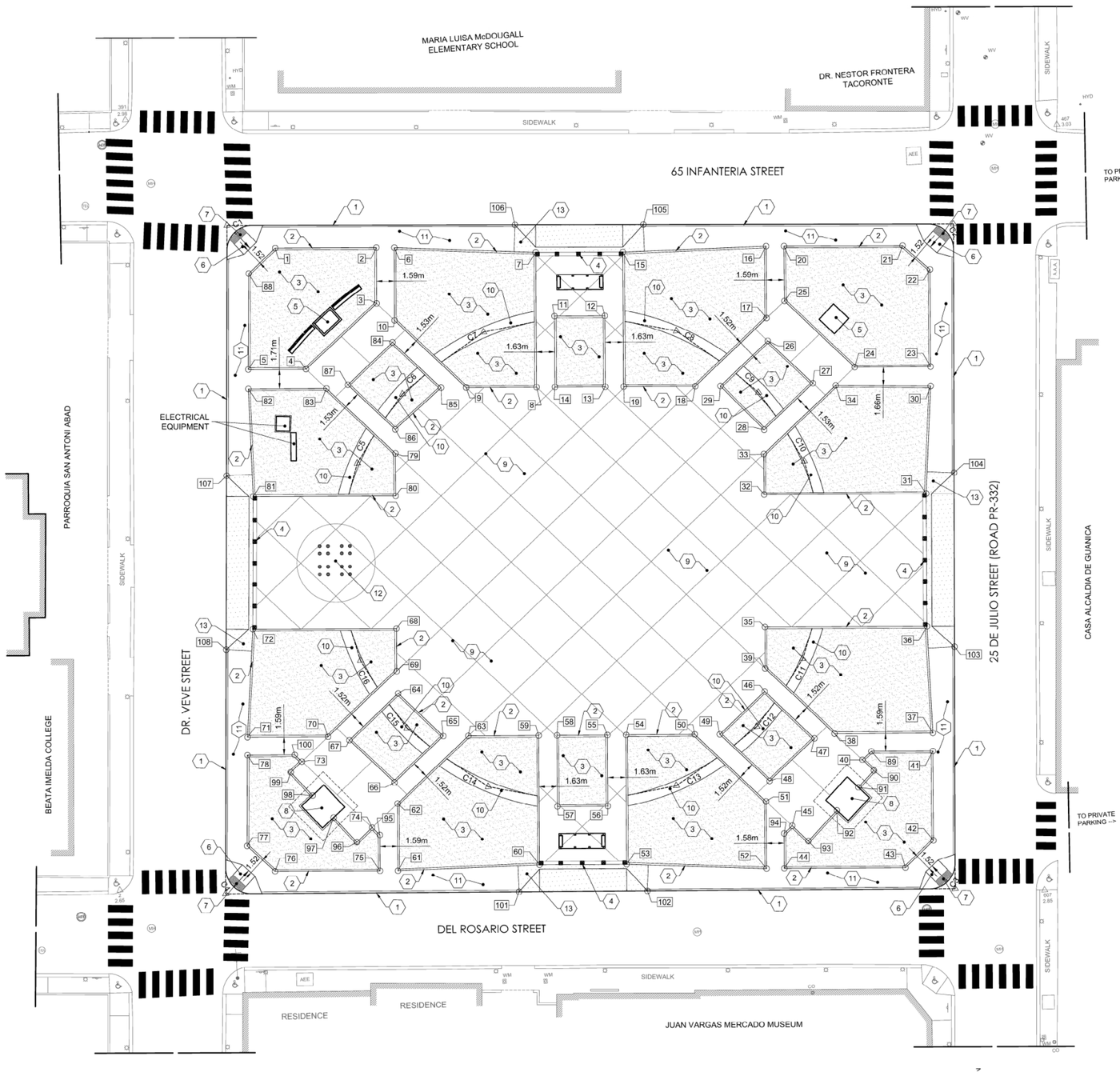
9. ALL SIDEWALKS, CURB AND GUTTER, STREET PAVING, CURB CUTS, DRIVEWAY APPROACHES, ACCESSIBLE RAMPS, ETC. CONSTRUCTED IN THE RIGHT-OF-WAY SHALL CONFORM TO ALL MUNICIPAL AND/OR STATE SPECIFICATIONS AND REQUIREMENTS.

10. ALL DISTURBANCE INCURRED TO ANY ADJOINING PROPERTY DUE TO CONSTRUCTION OR DEMOLITION SHALL BE RESTORED TO THE PREVIOUS CONDITION OR BETTER, AND TO THE SATISFACTION OF THE CITY OR STATE AUTHORITY.

11. FOR ORNAMENTAL FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. PROPOSED CURB TYPE "D"
2. PROPOSED GRANITE TILE, REFER TO ARCHITECTURAL PLANS.
3. PROPOSED PLANTING
4. PROPOSED GRANITE VEHICULAR CONTROL BOLLARDS, REFER TO ARCHITECTURAL PLANS.
5. MONUMENT, REFER TO ARCHITECTURAL PLANS.
6. PROPOSED ACCESIBLE RAMP
7. DETECTABLE WARNING FIELD
8. KIOSK, REFER TO ARCHITECTURAL PLANS.
9. CONCRETE SLAB, REFER TO STRUCTURAL PLANS FOR THICKNESS, CONCRETE STRENGTH AND CONSTRUCTION JOINTS TYPES AND DISTRIBUTION.
10. PROPOSED PEDESTRIAN CROSSING STRIP, REFER TO ARCHITECTURAL PLANS.
11. EXISTING CONCRETE SIDEWALK WITH NEW SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.
12. PROPOSED FOUNTAIN AREA
13. NEW CONCRETE SIDEWALK AND SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.



GEOMETRICAL SITE PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y ESCRITO PREVIO DE NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 225-24**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y ESPECIFICACIONES Y QUE, A MI LEAL SABER Y ENTENDER, ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASIMISMO, CERTIFICO QUE LA CONSTRUCCION DE LA OBRA DISENADA EN ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 6 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, SEGÚN ENMENDADA, CONOCIDA COMO LA LEY 76, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OCPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821 -2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

GEOMETRICAL SITE PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-3

VERTEX DATA TABLE							
ID	Δ	R	T	E	L	P.I. COORDINATES N	P.I. COORDINATES E
C1	89-45-55	2.25	2.24	0.93	3.53	215,486.5970	149,707.2647
C2	89-58-13	2.25	2.25	0.93	3.53	215,482.2296	149,771.5545
C3	89-44-13	2.25	2.24	0.92	3.52	215,423.4132	149,767.5897
C4	90-31-39	2.25	2.27	0.95	3.56	215,427.4692	149,703.0045
C5	15-17-57	21.39	2.87	0.19	5.71	215,464.7542	149,717.3254
C6	13-53-33	21.39	2.61	0.16	5.19	215,470.6040	149,721.7511
C7	24-14-46	21.39	4.60	0.49	9.05	215,475.5841	149,729.3096
C8	24-29-45	21.39	4.64	0.50	9.15	215,474.4929	149,746.3805
C9	13-54-49	21.39	2.61	0.16	5.19	215,468.5358	149,753.2641
C10	15-18-39	21.39	2.88	0.19	5.72	215,462.1542	149,756.8882
C11	14-56-41	21.39	2.81	0.18	5.58	215,444.6890	149,755.5330
C12	13-55-01	21.39	2.61	0.16	5.20	215,438.9846	149,751.0373
C13	23-09-16	21.39	4.38	0.44	8.64	215,434.2578	149,743.5624
C14	23-23-42	21.39	4.43	0.45	8.73	215,435.3319	149,726.9085
C15	13-54-57	21.39	2.61	0.16	5.20	215,441.0300	149,720.0835
C16	14-53-07	21.39	2.79	0.18	5.56	215,447.2666	149,716.3827

SITE COORDINATES	
PT NO.	COORDINATES
1	N 215,484.2837 E 149,711.3865
2	N 215,483.7016 E 149,720.3417
3	N 215,478.7609 E 149,720.0205
4	N 215,473.3860 E 149,713.3631
5	N 215,473.7118 E 149,708.2537
6	N 215,483.5873 E 149,721.9277
7	N 215,482.3043 E 149,734.4120
8	N 215,470.3750 E 149,733.6533
9	N 215,470.7724 E 149,727.4181
10	N 215,477.1589 E 149,721.5031
11	N 215,476.5449 E 149,735.6763
12	N 215,476.2603 E 149,740.1408
13	N 215,469.9855 E 149,739.7400
14	N 215,470.2716 E 149,735.2764
15	N 215,481.7906 E 149,742.1221
16	N 215,481.4137 E 149,754.8327
17	N 215,475.0687 E 149,754.4350
18	N 215,469.4791 E 149,747.7102
19	N 215,469.8836 E 149,741.3632
20	N 215,481.3090 E 149,756.4173

SITE COORDINATES	
PT NO.	COORDINATES
21	N 215,480.6154 E 149,766.9163
22	N 215,478.3582 E 149,769.1929
23	N 215,469.7503 E 149,768.6443
24	N 215,470.1763 E 149,761.9296
25	N 215,476.4491 E 149,756.1204
26	N 215,473.0453 E 149,754.4009
27	N 215,469.0161 E 149,758.1327
28	N 215,465.1976 E 149,753.5329
29	N 215,469.3377 E 149,749.9283
30	N 215,468.0394 E 149,768.5352
31	N 215,458.5509 E 149,767.4723
32	N 215,459.4651 E 149,753.1284
33	N 215,463.0727 E 149,753.3581
34	N 215,468.6875 E 149,760.1315
35	N 215,447.7354 E 149,752.3806
36	N 215,446.7951 E 149,766.7230
37	N 215,437.3296 E 149,766.5892
38	N 215,437.8848 E 149,757.8777
39	N 215,444.0723 E 149,752.1471
40	N 215,435.3958 E 149,760.1797

SITE COORDINATES	
PT NO.	COORDINATES
41	N 215,435.7444 E 149,766.4769
42	N 215,427.8160 E 149,765.9716
43	N 215,425.5813 E 149,763.3276
44	N 215,426.2648 E 149,752.6034
45	N 215,429.9787 E 149,753.5638
46	N 215,442.0293 E 149,751.9615
47	N 215,437.5910 E 149,756.0721
48	N 215,434.0834 E 149,751.8409
49	N 215,438.5340 E 149,747.7188
50	N 215,438.6847 E 149,745.5021
51	N 215,432.3182 E 149,751.3980
52	N 215,426.3537 E 149,751.0315
53	N 215,427.6111 E 149,738.6706
54	N 215,439.0619 E 149,739.4357
55	N 215,439.1670 E 149,737.7755
56	N 215,432.8771 E 149,737.3749
57	N 215,433.1616 E 149,732.9113
58	N 215,439.4495 E 149,733.3123
59	N 215,439.5521 E 149,731.6894
60	N 215,428.1025 E 149,730.9591

SITE COORDINATES	
PT NO.	COORDINATES
61	N 215,428.4448 E 149,718.3983
62	N 215,434.4080 E 149,718.7784
63	N 215,439.9474 E 149,725.4611
64	N 215,444.1208 E 149,719.5083
65	N 215,440.0888 E 149,723.2427
66	N 215,436.2763 E 149,718.6434
67	N 215,440.3085 E 149,714.9089
68	N 215,449.8739 E 149,719.7646
69	N 215,446.1147 E 149,719.5245
70	N 215,440.7423 E 149,713.0434
71	N 215,441.1980 E 149,705.9081
72	N 215,450.7074 E 149,707.0518
73	N 215,438.6895 E 149,710.5669
74	N 215,432.4167 E 149,716.3761
75	N 215,428.5459 E 149,716.8134
76	N 215,429.1543 E 149,707.5164
77	N 215,431.5782 E 149,705.2017
78	N 215,439.6139 E 149,705.7949
79	N 215,465.4049 E 149,720.7539
80	N 215,461.6209 E 149,720.5128

SITE COORDINATES	
PT NO.	COORDINATES
81	N 215,462.4448 E 149,707.9057
82	N 215,472.0018 E 149,708.1419
83	N 215,471.5605 E 149,715.0527
84	N 215,475.2464 E 149,721.1868
85	N 215,470.9135 E 149,725.2036
86	N 215,467.5067 E 149,720.8879
87	N 215,471.7492 E 149,716.9680
88	N 215,482.2094 E 149,708.8850
89	N 215,436.0926 E 149,761.0307
90	N 215,434.3672 E 149,761.1311
91	N 215,432.9881 E 149,759.6597
92	N 215,431.0739 E 149,757.6174
93	N 215,428.5312 E 149,754.9045
94	N 215,429.3536 E 149,752.8003
95	N 215,431.7229 E 149,717.0160
96	N 215,431.2320 E 149,714.9469
97	N 215,433.5525 E 149,713.0364
98	N 215,435.6422 E 149,711.3159
99	N 215,437.8224 E 149,709.5209
100	N 215,439.3459 E 149,709.9858

SITE COORDINATES	
PT NO.	COORDINATES
101	N 215,425.8377 E 149,728.9833
102	N 215,425.1240 E 149,740.3480
103	N 215,444.8053 E 149,769.0318
104	N 215,460.2099 E 149,770.0702
105	N 215,484.0941 E 149,744.1083
106	N 215,484.8539 E 149,732.7460
107	N 215,464.4415 E 149,705.6811
108	N 215,449.0531 E 149,704.5703

GEOMETRICAL DATA AND TABLES

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE LOS MISMOS ESTA PROHIBIDO SIN NUESTRO CONSENTIMIENTO EXCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE ESTOS PLANOS CUMPLEN CON LA REGLAMENTACION VIGENTE, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DE CONSTRUCCION DE ESTOS PLANOS Y CERTIFICACIONES SE HAN CUMPLIDO Y ENMENDADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, CONOCIDA COMO LA "LEY DE PRACTICA PROFESIONAL SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA CGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO 3ox 795 Guanica, Puerto Rico 00653
787 821-2777

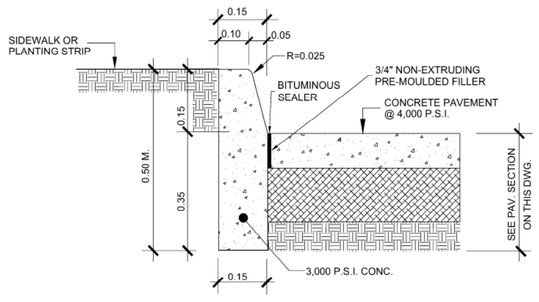
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

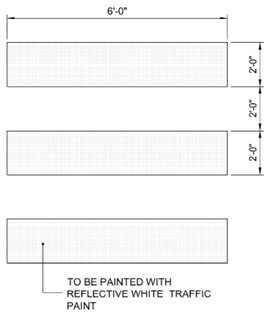
GEOMETRICAL DATA AND TABLES

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

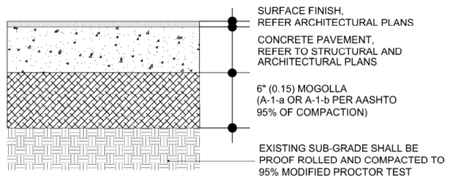
C-4



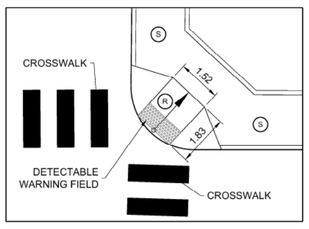
TYPE "D" CONCRETE CURB
NOT TO SCALE



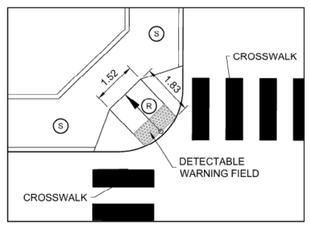
CROSSWALK DETAIL
NOT TO SCALE



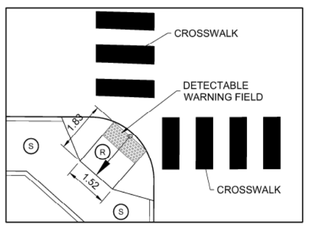
TYPICAL CONCRETE SLAB SECTION
NOT TO SCALE



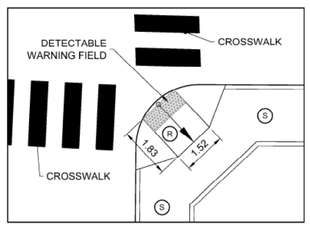
RAMP AR-1
NOT TO SCALE



RAMP AR-2
NOT TO SCALE



RAMP AR-3
NOT TO SCALE



RAMP AR-4
NOT TO SCALE

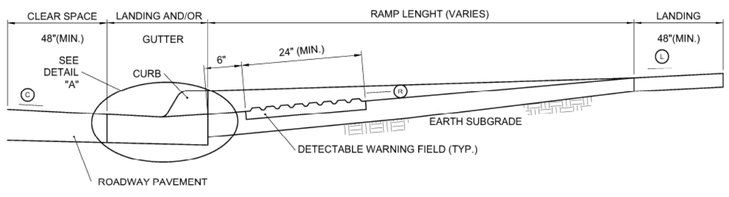
RAMPS GENERAL NOTES:
1. THE MAXIMUM CROSS SLOPES OF RAMPS MUST NOT EXCEED 2% IN ANY DIRECTION.
2. USE A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE TO CREATE A SLIP RESISTANT SURFACE ON CONCRETE RAMP SURFACES, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
3. CONSTRUCT CURB RAMP PERPENDICULAR TO THE CURB. AVOID SKEWING THE RAMP FACE.
4. CONSTRUCT RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, OR STREET THAT ARE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES NOT TO EXCEED 2.5 INCHES.
5. AT POINTS WHERE A CHANGE IN SLOPE OCCURS, THE ALGEBRAIC GRADE DIFFERENCE SHALL NOT EXCEED 11%.
6. LOCATE DRAINAGE INLETS AND MANHOLES OUTSIDE OF RAMP WALKING SURFACES OR LANDINGS.
7. LOCATE DETECTABLE WARNING FIELD 6 INCHES BEHIND BACK OF CURB.
8. WALKING SURFACE WITH DETECTABLE WARNING FIELD (TRUNCATED DOMES) SHALL BE A SUBSIDIARY OBLIGATION TO THE CONTRACTOR AND PAID UNDER SPECIFICATION 608.
9. ANY TYPE OF ADA RAMPS, INCLUDING LANDING, FOR WHEEL CHAIRS AND HANDICAPPED PERSONS WILL BE MEASURED BY THE SQUARE METER OF COMPLETED AND ACCEPTED RAMP SURFACE.
10. THE DIMENSIONS AND MATERIALS OF SIDEWALK SHALL BE IN CONFORMITY WITH THE DETAILS, LINES AND GRADES SHOWN ON THE CONTRACT PLANS ORAS ESTABLISHED BY THE ENGINEER.
11. THE RAMPS AND SIDEWALKS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION 608."SIDEWALKS".
12. THE DETECTABLE WARNING FIELD SHALL BE YELLOW IN COLOR TO PROVIDE HIGH VISIBILITY TO THE VISUALLY IMPAIRED.

SLOPE TABLE		
DESCRIPTION	MAX RUNNING SLOPE*	MAX CROSS SLOPE**
LANDING	2% (1V:50H)	2% (1V:50H)
RAMP	8.33% (1V:12H)	2% (1V:50H)
PARALLEL RAMP	7.1% (1V:14H)	2% (1V:50H)
CLEAR SPACE	5% (1V:20H)	2% (1V:50H)
SIDEWALK	--------	2% (1V:50H)
TRANSVERSABLE SURFACE	10% (1V:10H)	--------

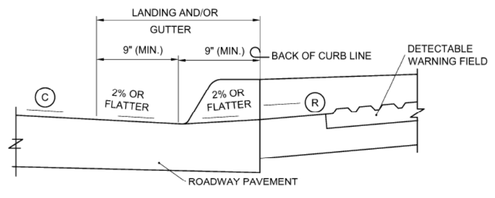
*RUNNING SLOPE IS IN DIRECTION OF PEDESTRIAN TRAVEL.
**CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.



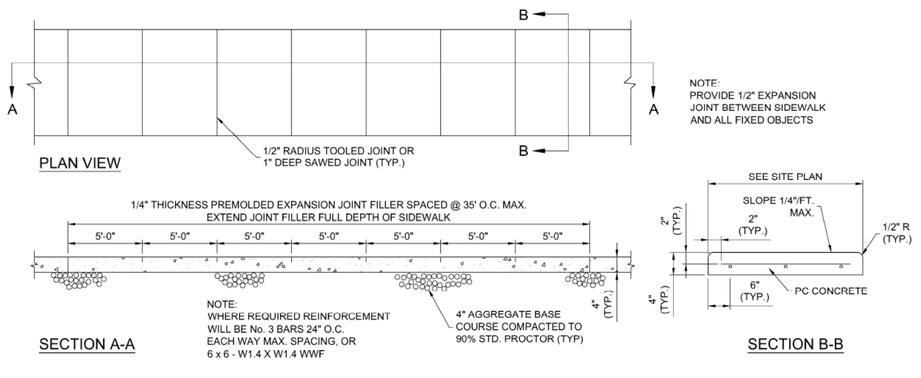
TYPICAL ASPHALT SECTION FOR MUNICIPAL STREET (AT COLD MILLED AREA)
NOT TO SCALE



RAMP SECTION
TYPICAL SECTION THROUGH RAMP RUN AND LANDINGS WITH UPPER LANDING AT NORMAL SIDEWALK ELEVATION
NOT TO SCALE



DETAIL "A"
NOT TO SCALE



PLAN VIEW

SECTION A-A

SECTION B-B

CONCRETE SIDEWALK DETAIL
NOT TO SCALE

NOTE:
FOR SURFACE FINISH, REFER TO
ARCHITECTURAL PLANS.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESAMENTE PROVEIDO UN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO O SUPERVISADO LA PREPARACION DE LOS MISMOS, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. QUE LA CONSTRUCCION DE LAS OBRAS QUE SE DISEÑAN EN CUMPLIMIENTO DE ESTOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY 313", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

SITE DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-5

GRADING NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS PLAN AND OTHER RELATED ONES, HAS BEEN PREPARED CONSIDERING THE INFORMATION SUPPLIED BY TRG ARCHITECTS, PSC.

3. PRIOR TO START CONSTRUCTION, THE OWNER SHALL ENGAGE THE SERVICES OF A CONSULTING GEOTECHNICAL ENGINEER WHO SHALL DIRECT AND SUPERVISE THE EARTHWORK OPERATIONS. CONTRACTOR SHALL ALSO COMPLY WITH THE RECOMMENDATIONS THAT SAID CONSULTANT MAY ESTABLISH DURING THE PROJECT CONSTRUCTION.

4. UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER,

(A) MATERIAL FOR FILL OR EMBANKMENT SHALL BE AS PER AASHTO CLASSIFICATION A-2-4 OR BETTER, COMPACTED TO DENSITIES OF 95% ON ALL AREAS, AS DETERMINED BY THE ASTM D-1557(MODIFIED PROCTOR TEST), DEPOSITED IN LAYERS WITH SUCH THICKNESS AS REQUIRED BY THE NATURE OF SOIL, BUT NEVER TO EXCEED TEN (10) INCHES , AND SHALL EXHIBIT A MOISTURE CONTENT RANGING FROM +2 TO +4% ABOVE THE OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION.

(B) SLOPES SHALL NOT BE STEEPER THAN 1.5 TO 1.0 FOR CUTS AND 2.0 TO 1.0 FOR FILLS.

(C) ALL SLOPES EXCEEDING 2.0 TO 1.0 AND DIRT SWALES SHALL BE SODDED IMMEDIATELY WITH BERMUDA GRASS, PLANTED IN BLOCKS, TO PREVENT EROSION.

5. THE TOPSOIL NEEDED TO PROVIDE THE FINAL GRADES FOR LAWNS AND PLANTING AREAS SHALL BE PROPERLY STOCKPILED WITHIN THE PROJECT LIMITS.

6. ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. SUBGRADES AND GRADES ARE AS FOLLOWS:

(A) FOR BUILDING FLOOR SLAB, GRADE TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.

(B) FOR STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS, GRADE TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.

(C) FOR LAWNS & PLANTING AREAS, GRADE TO FOUR INCHES (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH ACCEPTABLE TOPSOIL.

7. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, CONTRACTOR SHALL REPAVE ANY AFFECTED AREA OF PAVEMENT WITH 2" HOT PLANT MIX BITUMINOUS ASPHALT TYPE S (75).

8. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

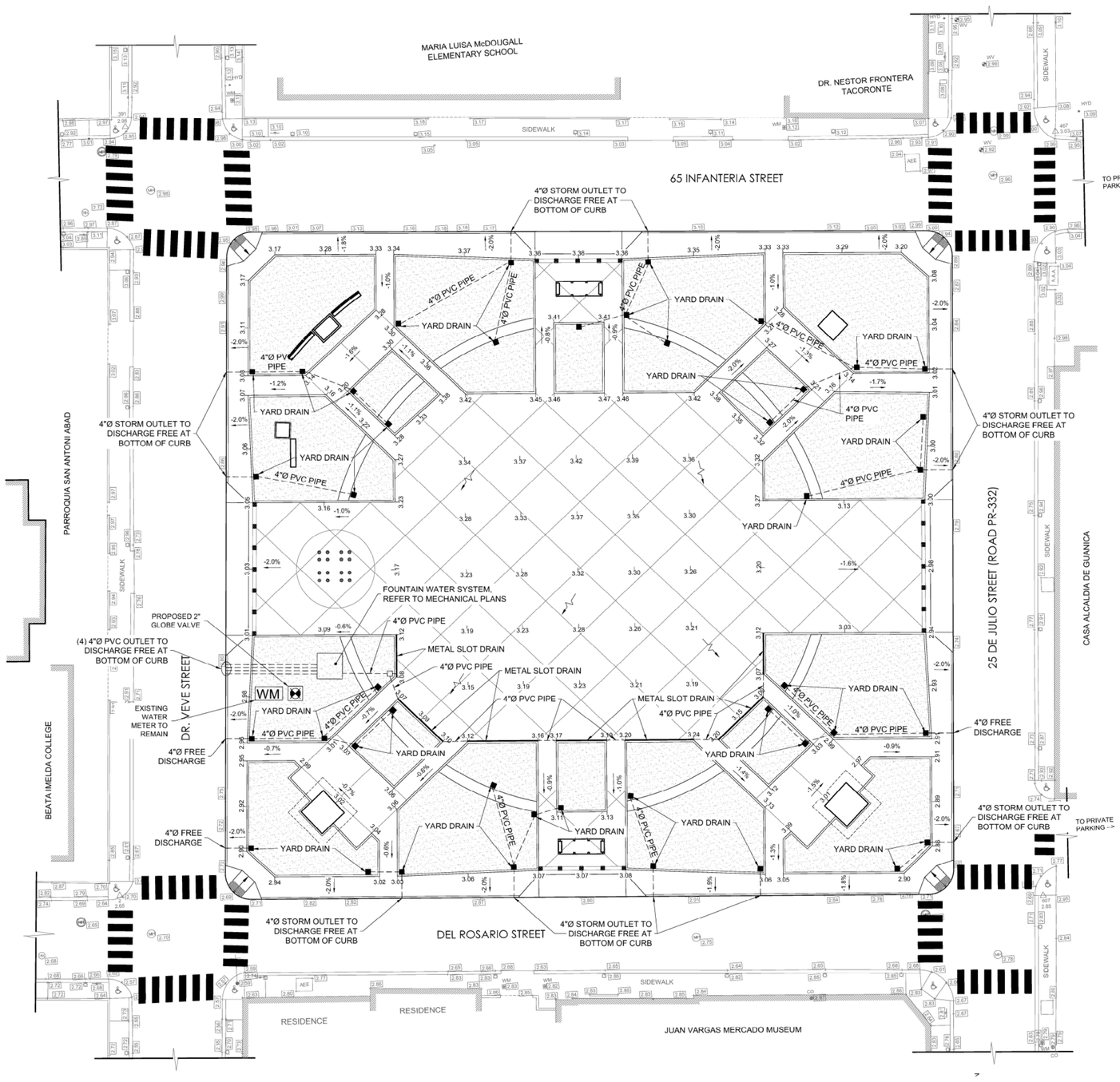
9. CONTRACTOR SHALL VERIFY, AGAINST THE ELECTRICAL DRAWINGS, ANY POWER, TELEPHONE AND LUMINARY POLES SHOWN ON THIS DRAWINGS AS EXISTING TO REMAIN OR TO BE RELOCATED. IN CASE OF DISCREPANCIES, THE ELECTRICAL DRAWINGS SHALL TAKE PRECEDENCE.

10. FOR FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

11. STORM SEWER LINES SHALL BE AS FOLLOWS:
a) FOR R.C.P., USE CLASS III.
b) FOR P.V.C. PIPE LESS THAN 18"Ø, USE P.V.C. SEWER PIPE A.S.T.M. D-3034.
c) FOR P.V.C SEWER PIPE RANGING FROM 18" AND 30"Ø, USE P.V.C. A.S.T.M. F-1803.

LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- SLOPE PATTERN
- 14.99 PROPOSED ELEVATIONS
- 14.99 EXISTING ELEVATIONS
- CONTOUR INTERVAL AT 1.00m
- CONTOUR INTERVAL AT 0.25m
- YARD DRAIN (SPEE-D BASIN SYSTEM WITH 9" GREEN PLASTIC SQUARE GRATES BY NDS OR SIMILAR).
- 4"Ø PVC PIPE
- METAL SLOT DRAIN, REFER TO ARCHITECTURAL PLANS



EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESADO Y PREVIO DE UN NUESTRO CONSULTAMIENTO ESCRITO.

2.- YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 23124**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES, Y POR LA PRESENTE DOY FE QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASIMISMO, ENTIENDO QUE ES MI RESPONSABILIDAD SOMETER COPIA DE ESTOS PLANOS Y CERTIFICACIONES SI HA CUMPLIDO Y ANUNCIO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PSP", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MI AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA CUAL.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO 3ox 795 Guanica, Puerto Rico 00653
787 821-2777

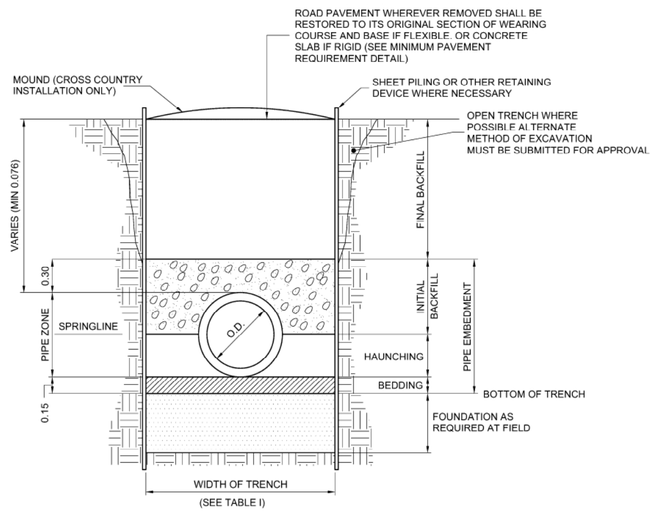
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-6



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I

WIDTH OF TRENCH

DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
4" - 15"	O.D. + 12"
16" - 27"	O.D. + 18"

NOTE:

* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0.90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4. WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. QUE SOY RESPONSABLE POR LA PREPARACION Y EL CONTENIDO DE ESTOS PLANOS Y CERTIFICACIONES, SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, CONOCIDA COMO "LEY DE PRACTICA SOCIAL", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MI AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA CUAL.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

STORM SEWER SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

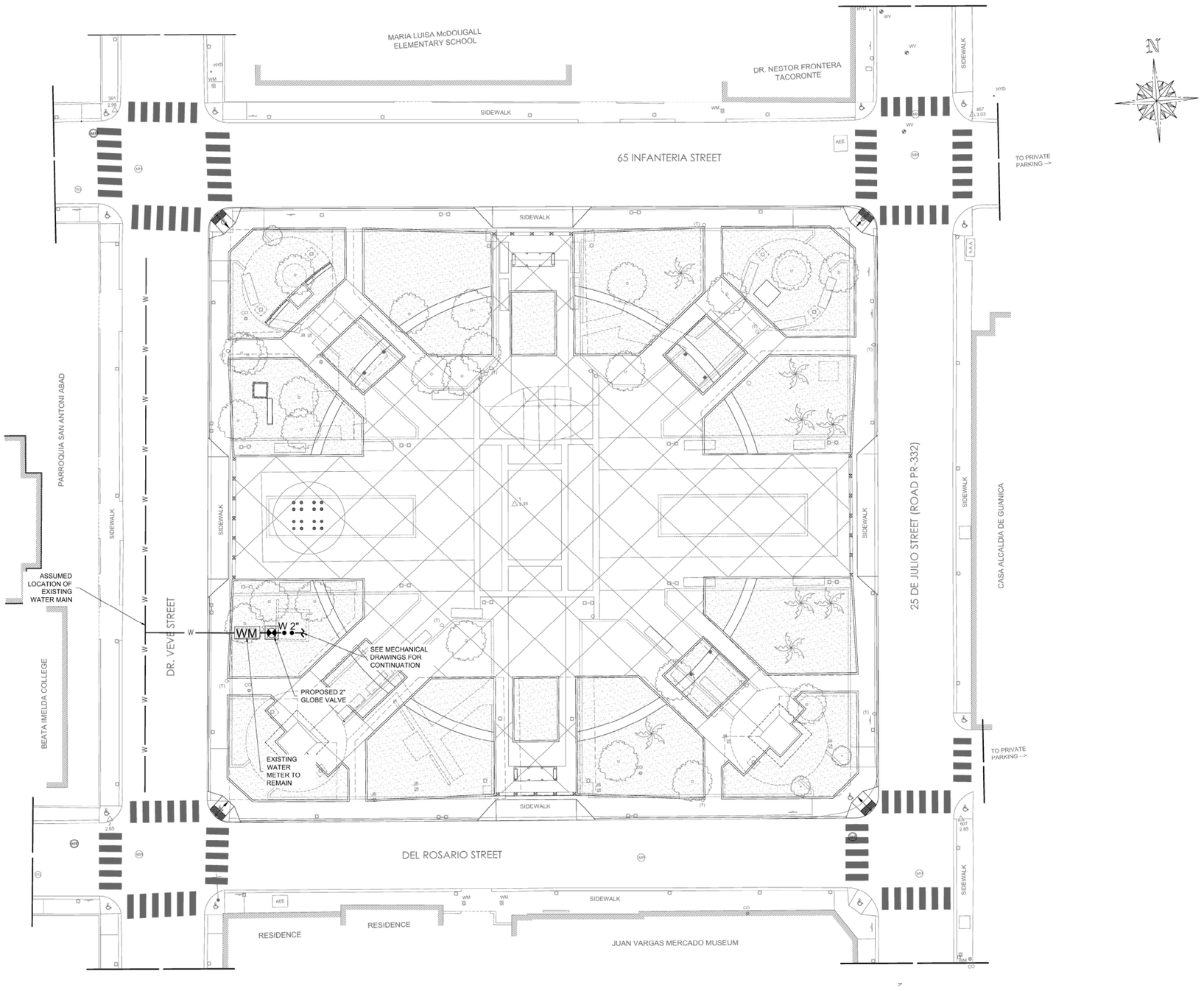
C-7

WATER NOTES:

1. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
2. ALL 2"Ø DIAMETER CONNECTIONS SHALL BE INSTALLED WITH 180 DEGREES SLEEVES AND SERVICE CLAMPS.
3. ALL INSTALLATIONS SHALL BE PERFORMED ACCORDING TO PUERTO RICO AQUEDUCT AND SEWER AUTHORITY'S (P.R.A.S.A.) REGULATIONS.
4. A 6" DETECTABLE BLUE TAPE, LIKE THE ONE MANUFACTURED BY "REFF INDUSTRIES, INC" OR SIMILAR, SHALL BE INSTALLED ON THE PIPE. THE TAPE SHALL BE LOCATED ON TOP AND PARALLEL TO THE PIPE AT A DEPTH OF 0.30 MTS (12") UNDER THE SURFACE.
5. CONCRETE THRUST BLOCKS SHALL BE PROVIDED WHENEVER A CHANGE IN THE PIPE'S DIRECTION OCCURS.
6. IT IS NECESSARY TO EXCAVATE THE AREA WHERE PROJECT CONNECTION IS LOCATED TO VERIFY DEPTH AND PIPE MATERIAL PRIOR TO PLACING ASPHALT, THE CORRESPONDING INSPECTION SHALL BE REQUESTED TO PRASA BY THE CONTRACTOR.
7. THE CONTRACTOR OR PROJECT OWNER SHALL SUBMIT EVIDENCE OF PAYMENT FOR CONNECTION TO THE SYSTEM PRIOR TO RECEIVING FINAL ENDORSEMENT OF THE PROJECT.
8. ALL CONNECTION PIECES SUCH AS TEES, VALVES, PLUGS, ETC. SHALL BE MADE OF CAST IRON.
9. THE PIPE SHALL BE INSTALLED AT A DEPTH OF 0.75 MTS FROM THE SURFACE TO THE TOP OF THE PIPE AND AT A MIN. DISTANCE OF 1.50 MTS FROM THE CURB.
10. THE FIRE HYDRANTS SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENTS. FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
11. THE OWNER OR REPRESENTATIVE SHALL NOTIFY TO P.R.A.S.A.'S OFFICE, IN WRITING, WHEN WORKS BEGIN.
12. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE SPECIFICATIONS OF P.R.A.S.A. AND WITH THE ADDITIONAL CONDITIONS INDICATED IN THE WRITTEN APPROVAL. IN CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE WRITTEN APPROVAL BY P.R.A.S.A., THE WRITTEN APPROVAL SHALL PREVAIL.
13. P.R.A.S.A. RESERVES THE RIGHT TO REQUIRE ANY CHANGES NOT INCLUDED IN THE PROJECT DUE TO OMISSIONS OR INVOLUNTARY ERRORS IF, TO ITS BEST JUDGMENT, ARE NECESSARY FOR THE PROPER FUNCTIONING OF THE WATER DISTRIBUTION SYSTEM.
14. THE WATER METER BOXES SHALL BE INSTALLED OUT OF THE ROADWAY, PARKING OR MOTOR VEHICLES ACCESS RAMPS.
15. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT, FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
17. THE WATER METER BOX SHALL BE INSTALLED USING COPPER TYPE "K" OR BRONZE PIPE OF EQUAL COMPLIANCE FOR METERS 1"Ø AND SMALLER.
18. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE, WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
19. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE, WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
20. THE DISTANCE BETWEEN THE WATER SERVICE CONNECTION AND THE SANITARY SEWER CONNECTION SHALL BE MORE THAN OR EQUAL TO 10 FEET. THE INSTALLATION OF BOTH SERVICES IN THE SAME TRENCH IS NOT PERMITTED.
21. AN AIR RELEASE VALVE SHALL BE INSTALLED AT ALL HIGH POINTS OF WATER PIPELINE THE LOCATION SHALL BE DETERMINED AT THE FIELD.
22. IN ORDER TO OBTAIN PRASA'S ACCEPTANCE OF THE PROJECT, IT SHALL BE PAVED WHEN PRASA'S FINAL VALIDATION IS PERFORMED.
23. THE WATER SERVICE PIPE SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE ELECTRIC, TELEPHONE AND CABLE TV SERVICE PIPES.
24. CONTRACTOR SHALL PROVIDE AND INSTALL ANTI-THEFT DEVICES FOR THE FIRE HYDRANTS IN THE PROJECTS.
25. THE PROJECT OWNER SHALL PERFORM A HYDRAULIC PRESSURE TEST TO THE WATER DISTRIBUTION SYSTEM PIPE AT A MINIMUM PRESSURE OF 150 PSI OR 1.5 TIMES THE REGISTERED PRESSURE IN THE WATER DISTRIBUTION SYSTEM ADJACENT TO THE PROJECT. THE TEST SHALL LAST FOR A MINIMUM OF 15 MINUTES AND NO PRESSURE LOSS SHALL BE REGISTERED THROUGHOUT THE TEST. P.R.A.S.A.'S PUBLIC & PRIVATE PROJECTS OFFICE PERSONNEL SHALL BE PRESENT DURING THE TEST IN ORDER TO VALIDATE THE SAME.
26. THE EQUIPMENT FOR THE PRESSURE TEST SHALL BE PROVIDED BY THE CONTRACTOR OR PROJECT PLUMBER. FOR PRESSURES OF 150 PSI, THE MANOMETER SCALE SHALL NOT EXCEED 200 PSI.
27. ANY NECESSARY CHANGE, RELATED TO THE POTABLE WATER DISTRIBUTION SYSTEM, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.

FIRE CONTROL METER NOTES:

1. ALL CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE FLANGED, MADE OF CAST IRON OR DUCTILE IRON AND FIRE RATED.
2. ALL EXPOSED CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE PAINTED WITH AN ANTI-CORROSION COATING.
3. IN CASE THE WATER TABLE IS HIGH, THE 4"Ø WATER METER SHALL BE INSTALLED ABOVE THE TERRAIN LEVEL IN A LOCATION DESIGNATED BY THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.).
4. THE METER BOX SHALL BE INSTALLED OUT OF PROPERTY LIMITS.
5. THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.) WILL ONLY BE RESPONSIBLE FOR THE METER. THE PROJECT OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND CONSERVATION OF ALL INSTALLATION AFTER THE METER.
6. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
7. ALL EXPOSED PIECES INSIDE THE WATER METER SHALL BE METALLIC.
8. THE USE OF DIELECTRIC COUPLINGS IS REQUIRED WHEN USING DISSIMILAR MATERIALS.
9. A DOUBLE CHECK VALVE SHALL BE INSTALLED AFTER THE NIPPLE FOLLOWING THE METER.
10. THE GATE VALVE SHALL HAVE AN OPERATOR OR HANDLE.
11. THE METER INSIDE THE BOX SHALL BE INSTALLED IN SUCH WAY THAT FACILITATES ITS READING WHEN THE COVER IS LIFTED.
12. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
13. THE BOX COVERS SHALL HAVE HOLES IN ORDER TO RAISE THEM PARALLEL TO THEIR FRAME RAILS OR GUIDES.
14. A GATE VALVE SHALL BE INSTALLED AFTER THE WATER METER AT A DISTANCE NO MORE THAN 2 FEET INSIDE THE PROPERTY LIMIT.
15. THE WATER METER BOX SHALL BE CONSTRUCTED OUT OF THE ROADWAY, PARKING, AND MOTOR VEHICLES OR PEDESTRIAN ACCESS RAMPS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT (LIGHTNING POLES, TRANSFORMERS, GROUND RODS, ETC.).
17. ANY NECESSARY CHANGE, RELATED TO THE METER, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.
18. ALL BOLTS TO BE USED IN THE WATER METER INSTALLATION INSIDE THE BOX SHALL BE MADE OF STAINLESS STEEL.
19. COVER AND FRAMES OF EXISTING MASTER METERS (DOMESTIC AND FIRE) SHALL BE PAINTED WITH TWO (2) LAYERS OF RED OXIDE PRIMER AND TWO (2) LAYERS OF MARINE OIL BASED PAINT. CONTRACTOR SHALL COORDINATE WITH PRASA THE COLOR TO BE APPLIED.



ABBREVIATION:

P.V.C.=	POLYVINYL CHLORIDE
C.T.K.=	COPPER TYPE "K"
R.G.J.=	RUBBER GASKET JOINT
G.V.=	GATE VALVE
T.B.=	THRUST BLOCK
S.C.=	SERVICE CLAMP
T.E.=	TOP ELEVATION
I.E.=	INVERT ELEVATION
S.=	SLOPE
L.=	LENGTH

WATER LEGEND:

- W — EXISTING 4"Ø WATER MAIN PIPE
- W 2" — PROPOSED 2"Ø WATER PIPE COPPER TYPE "K" (C.T.K.)
- WM — EXISTING 2" WATER METER
- PROPOSED VALVE

WATER PIPE DATA

DIAMETER	MATERIAL	LENGTH (METERS)
2"	COPPER PIPE TYPE "K" ASTM B-88	5

P.R.A.S.A. STAMP

WATER DISTRIBUTION SYSTEM PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O DISTRIBUCION SIN EL CONSENTIMIENTO ESCRITO DE LOS MISMOS ESTA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 23524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO LOS MISMOS Y QUE A MI ENTENDER QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO Y AMANTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA"" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PROFESIONAL SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES, O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA COPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

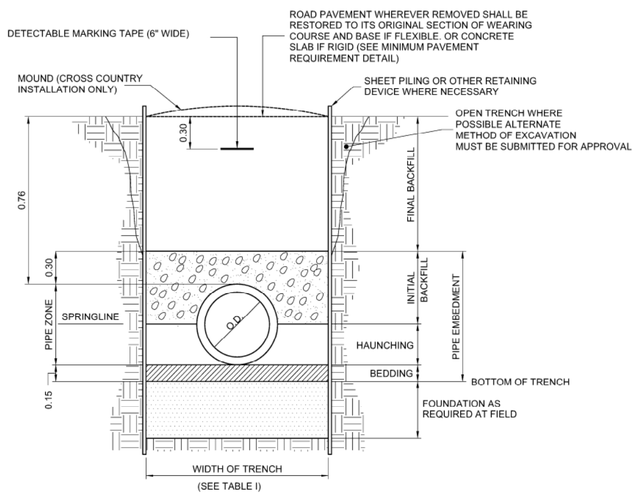
#	fecha	descripcion	por
1	--	--	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM PLAN

drawn by TAG drawing sheet number:
checked by CCT
file
plot scale 1=1
trg num

C-8



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I WIDTH OF TRENCH	
DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
4" - 15"	O.D. + 12"
16" - 27"	O.D. + 18"

NOTE:

* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

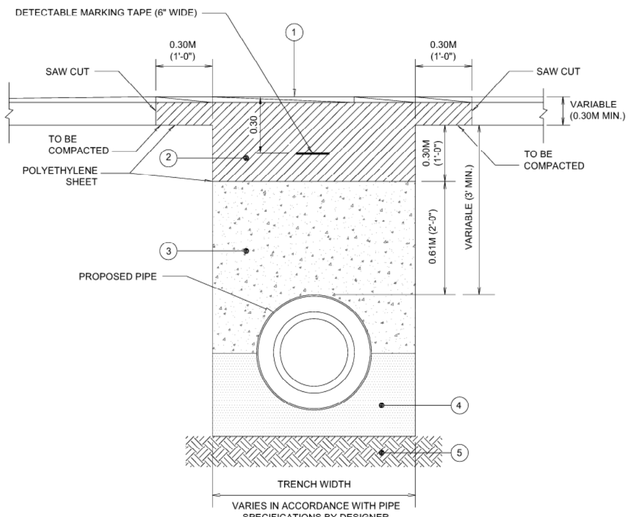
1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0.90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

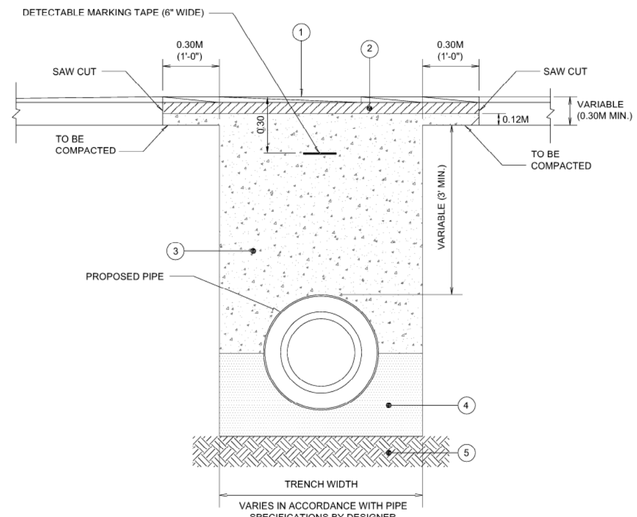
1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4. WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.



LEGEND:

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. FLOWABLE FILL BASE AS PER SPECIFICATION 905 (PRHTA) WITH THE EXCEPTION THAT COMPRESSIVE STRENGTH AT 28 DAYS SHALL NOT BE GREATER THAN 100 PSI AND NO LESS THAN 50 PSI AS DETERMINED IN ACCORDANCE WITH ASTM D 4832
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "A" IN EXISTING ROAD



LEGEND

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. 0.10 ASPHALT BASE COURSE HOT PLANT MIX BITUMINOUS CONCRETE PAVEMENT, B(75) AS PER SPEC 401 (PRHTA)
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "B" IN EXISTING ROAD

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESADO Y PREVIO DE NUESTRO CONSORTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE ESTOS PLANOS SON CONFORME A LA INFORMACION QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y ENMENDADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PSA", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

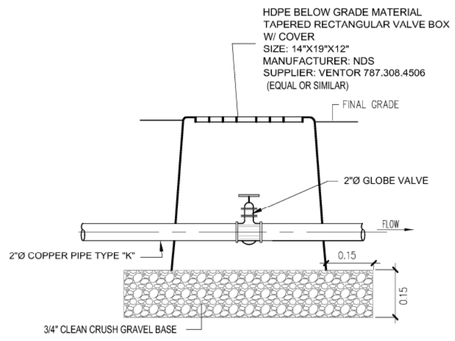
#	fecha	descripcion	por
⚠	-	-	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM DETAILS

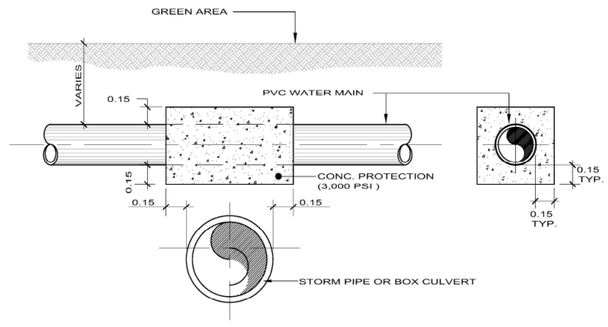
drawn by TAG
checked by CGT
file
plot scale 1=1
trg num

drawing sheet number: C-9



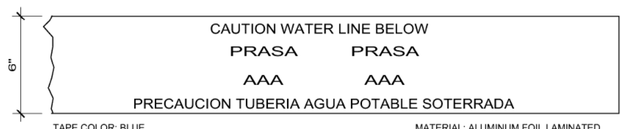
2" GLOBE VALVE WITH
RECTANGULAR VALVE BOX

NOT TO SCALE



CONCRETE PROTECTION FOR WATER
PIPE WHEN CROSSING W/ STORM LINE

NOT TO SCALE



TAPE COLOR: BLUE
IMPRINT COLOR: BLACK

MATERIAL: ALUMINUM FOIL LAMINATED
BETWEEN TWO LAYERS OF
INERT PLASTIC FILM

DETECTOR MARKING TAPE DETAIL
FOR WATER DISTRIBUTION PIPE

NOT TO SCALE

TERRA TAPE BY REEF
INDUSTRIES OR APPROVED
SIMILAR

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y ESCRITO DE NUESTRO CONSORTIMIENTO ESCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO O SUPERVISADO LA PREPARACION DE LOS MISMOS, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS, QUE REGLAMENTAN LA CONSTRUCCION DE LA OBRA DESCRITA EN DICHOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y EMPLEADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE PE, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

WATER DISTRIBUTION
SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-9.1

ABBREVIATIONS: (ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

A

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACCU	AIR COOLED CONDENSING UNIT
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CURRENT
AMPS	AMPERES
ANSI	AMERICA NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY

B

BFF	BELOW FINISHED FLOOR
BKR	BREAKER
BLDG	BUILDING

C

C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CKT	CIRCUIT
℄	CENTER LINE
CU	COPPER
CT	CURRENT TRANSFORMER

D

D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DEG	DEGREES
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING

E

EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING

F

FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FT	FOOT, FEET
FVNR	FULL-VOLTAGE, NON-REVERSING

G

G,GND	GROUND
GA	GAUGE
GAL	GALLON
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY

H

H	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
HV	HIGH VOLTAGES

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND

J

J-B	JUNCTION BOX

K

KCMIL	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
KWH	KILOWATT-HOUR

L

LRA	LOCKED ROTOR AMPS
LTG	LIGHTING

M

MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFGR	MANUFACTURER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED

N

N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

O

OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

P

PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM

S

SD	SMOKE DAMPER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SURF	SURFACE
SUSP	SUSPEND

T

TC	TIME CLOCK
TYP	TYPICAL

U

U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

V

V	VOLT
VA	VOLT-AMPERE

W

W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
WT	WATERTIGHT, WEIGHT

X

XFMR	TRANSFORMER

ELECTRICAL SYMBOLS: (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

LIGHTING:

- SURFACE OR RECESSED LIGHTING FIXTURE, LETTER DENOTES TYPE. (NL DENOTES NIGHT LIGHT)
- WALL WASHER LIGHTING FIXTURE, LETTER DENOTES TYPE.
- EXIT SIGN, ARROWS AS INDICATED. LETTER DENOTES TYPE DARKENED AREA DENOTES LIGHTED FACE.
- STRIP LED LIGHTING FIXTURE, LETTER DENOTES TYPE.
- LIGHT FIXTURE ON EMERGENCY OR UNSWITCHED CIRCUIT, LETTER DENOTES TYPE.
- LED OR HID LIGHT FIXTURE, LETTER DENOTES TYPE, DRAWN TO SCALE.
- WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE.(NL DENOTES NIGHT LIGHT)
- STAGGERED STRIP LED FIXTURE, LETTER DENOTES TYPE.
- EMERGENCY LIGHT, BATTERY OPERATED.

SWITCHES:

- $ SWITCH, SPST, 20A, 120/277V.
- $_{3W}$ SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY.
- $_{L}$ SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $_{K}$ SWITCH, SPST, 20A, 120/277V, "K" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "N" DENOTES NARROW MULLION SWITCH.
- DIMMER CONTROL SWITCH, 2000 WATT UNLESS OTHERWISE NOTED.
- $_{MS}$ WALL MOUNTED INFRARED MOTION SENSOR.
- DOUBLE POLE SWITCH 30A-250V-3W-QUIET TYPE W/PILOT LIGHT, 4'-0"(1219) A.F.F.

RECEPTACLES AND OUTLETS

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "C" DENOTES CLOCK OUTLET.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "H" DENOTES MOUNTED HORIZONTALLY.
- DUPLEX WALL RECEPTACLE MOUNTED 6" (152) ABOVE COUNTER OR BACKSPLASH.
- DUPLEX RECEPTACLE 20A,125V,3W, ISOLATED GROUND, AT 1'-6" A.F.F.
- $_{WP}$ DUPLEX WALL RECEPTACLE, "WP" DENOTES WEATHERPROOF, "TR" DENOTES SAFETY TYPE. "GFI" DENOTES GROUND FAULT INTERRUPTER. "SS" DENOTES SURGE SUPRESSION "IG" DENOTES ISOLATED GROUND.
- QUADRUPLEX RECEPTACLE 20A,125V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- DUPLEX RECEPTACLE 20A-125V W/G.F.I., 1'-6" A.F.F.
- DITTO, BUT 3'-6" A.F.F.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- FLOOR RECEPTACLE FLUSH MOUNTED.
- CEILING RECEPTACLE FLUSH MOUNTED.
- SINGLE RECEPTACLE 30A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- SINGLE RECEPTACLE 50A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- TV TELEVISION CABLE OUTLET @ 6'-8" (2032) A.F.F.
- CLOCK OUTLET.
- MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R, 20A, 125V AT 12" (304) ON CENTER.
- J JUNCTION BOX.
- POWER/TELEPHONE/DATA POLE (FOR MODULAR FURNITURE).
- FLOOR TELEPHONE OUTLET FLUSH MOUNTED.
- FLOOR DATA OUTLET FLUSH MOUNTED.
- FLOOR RECEPTACLE/TELEPHONE OUTLET FLUSH MOUNTED.
- FLOOR DATA/TELEPHONE OUTLET FLUSH MOUNTED.
- $_{P}$ TELEPHONE OUTLET "P" DENOTES PAY/PUBLIC TELEPHONE.
- DATA OUTLET.
- TELEPHONE & DATA OUTLET.

CIRCUITING AND WIRING

- CIRCUIT CONCEALED IN WALL OR CEILING.
- CIRCUIT BELOW SLAB OR GRADE.
- U/G UNDERGROUND CIRCUIT/DUCTBANK.
- HASH MARKS INDICATE NUMBER OF CONDUCTORS (LEFT TO RIGHT: NEUTRAL/PHASE/SWITCH LEG/GROUND). NO HASH MARKS INDICATE 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED.
- HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- CONDUIT STUB UP.
- CONDUIT STUB DOWN.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL.
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD.
- 120/208V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- 277/480V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- T DRY-TYPE TRANSFORMER.
- ATS AUTOMATIC TRANSFER SWITCH.
- PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' x 8' x 3/4" (1219 x 2438 x 19) UNLESS OTHERWISE NOTED.
- TERMINAL CABINET, TYPE AS NOTED 24" x 48" x 3½" (609 x 1219 x 89) UNLESS OTHERWISE NOTED.

MOTOR AND CONTROLS

- SINGLE OR THREE PHASE MOTOR.(NUMBER INSIDE SYMBOL CAN INDICATE HORSEPOWER)
- DISCONNECT (SAFETY) SWITCH "200/3" DENOTES AMPERES/POLES.
- FUSED DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLES/FUSE WHEN FUSE SIZE IS OMITTED, CONTRACTOR SHALL COORDINATE FUSE SIZE AT FIELD FOLLOWING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- MOTOR STARTER, VOLTS, ENCLOSURE & NEMA SIZE AS NOTED, H-O-A SWITCH & PILOT LIGHT ON COVER, PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/15/3/1" DENOTES AMPERES/FUSE(OR BREAKER)/POLES/NEMA STARTER SIZE, "NF" DENOTES NON-FUSED, H-O-A SWITCH & PILOT LIGHT ON COVER. PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- M MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
- C LIGHTING CONTACTOR, VOLTS. & AMPS. AS SHOWN, NEMA TYPE ENCLOSURE AS INDICATED.
- PC PHOTOCELL.
- PUSH BUTTON STATION.
- TC TIME CLOCK.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, DESIGNATION AND RATINGS AS NOTED.
- SWITCH, RATINGS AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- FUSE, RATING AS SHOWN.
- CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- DRAWOUT CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- ST SHUNT TRIP.
- GFR GROUND FAULT RELAY.
- M WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL.
- CT CURRENT TRANSFORMER(CT), RATED AS SHOWN.
- GROUND CONNECTION.
- LIGHTNING ARRESTOR.
- AUTOMATIC TRANSFER SWITCH.

AUDIO/VIDEO

- S CEILING MOUNTED PUBLIC ADDRESS SPEAKER.
- S WALL MOUNTED PUBLIC ADDRESS SPEAKER.
- VOLUME CONTROL, FLUSH IN WALL WITH SPEAKER.

MISCELLANEOUS

- 1 DRAWING NOTE REFERENCE.(NOTES BY SYMBOL)
- T THERMOSTAT.

SECURITY

- K KEY PAD.
- M MAGNETIC DOOR CONTACTS.(OD-OVERHEAD DOOR)
- MD CEILING MOUNTED MOTION DETECTOR.
- MD WALL MOUNTED MOTION DETECTOR.
- CCTV CAMERA.
- S ACCESS SECURE SWITCH.
- KH KITCHEN HOOD.
- B DOOR BELL.
- B DOOR BELL/BUZZER.

MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)

1-WALL SWITCHES - 48"(1219) A.F.F. TO CENTER OF SWITCH.

2-WALL RECEPTACLES - 18"(457) AF.F. TO CENTER OF RECEPTACLE.

3-WALL TELEPHONE/DATA OUTLETS - 18"(457) A.F.F. TO CENTER OF RECEPTACLE.

4-PUBLIC TELEPHONE - 54"(1371) A.F.F. TO CENTER OF OUTLET.

5-CLOCK OUTLET - 84"(2133) A.F.F. TO CENTER OF OUTLET.

6-FIRE ALARM PULL STATION - 48"(1219) A.F.F. TO CENTER OF STATION.

7-FIRE ALARM HORN OR BELL - 80"(2032) A.F.F. TO CENTER OF HORN OR BELL.

SPECIAL NOTES: (FOR PROJECTS WITH 1 MILE FROM SEASHORE)

1-ALL ELECTRICAL EQUIPMENT ENCLOSURES(NOT LUMA RELATED) LOCATED OUTDOORS SHALL BE STAINLESS STEEL OR APPROVED NON METALLIC.

2-UNIT STRUT CHANNELS SHALL BE ALUMINUM OR FIBERGLASS.

3-CONDUIT STRAPS SHALL BE ALUMINUM OR NON METALLIC.

4-ALL EQUIPMENT OR HANGER HARDWARE SHALL BE STAINLESS STEEL OR ALUMINUM.

5-DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC GASKET.

6-EXPOSED CONDUITS SHALL BE PVC SCHEDULE 40 OR RIGID STEEL GALVANIZED PAINTED.

7-POLE RISERS SHALL BE PVC SCHEDULE 80.

8-SUBSTATION TRANSCLOSURE, TRANSFORMER TANKS & LUMA EQUIPMENT CABINETS SHALL BE STAINLESS STEEL AS PER LUMA'S SPECIFICATIONS.

9-METER BANKS SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION.

10-OUTDOOR H.V. CABLE TERMINATIONS SHALL BE 25KV RATED.

11-SUBSTATION LOUVER WINDOWS SHALL BE STAINLESS STEEL.

FIRE ALARM LEGEND:

- SD IONIZATION TYPE CEILING MOUNTED SMOKE DETECTOR.
- SD IONIZATION TYPE WALL MOUNTED SMOKE DETECTOR. INSTALL SO THAT TOP OF DETECTOR IS NOT MORE THAN 12"(304) AND NOT LESS THAN 4"(101) FROM CEILING.
- SD$_{H}$ SAME AS ABOVE, BUT 120V.
- HD HEAT DETECTOR CEILING MOUNTED, FIXED TYPE.
- F PULL STATION, WALL MOUNTED, 4'-0"(1219) A.F.F. PROVIDE AT LEAST ONE PULL STATION PER FLOOR, ADD PULL STATIONS AS REQUIRED SO THAT MAXIMUM TRAVEL DISTANCE TO NEAREST STATION DOES NOT EXCEED 200 FT.(60.96m.)
- HG COMBINATION FIRE ALARM HORN AND STROBE LIGHT, WALL MOUNTED. MOUNT HEIGHT SHALL BE NOT LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438).
- G CEILING MOUNTED COMBINATION FIRE ALARM HORN AND STROBE LIGHT. CEILING MOUNTED UNITS SHALL BE INSTALLED AS PER NFPA 72 TABLE 6-4.4.1(b)
- ST WALL MOUNTED STROBE LIGHT, MOUNT AT NO LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438) ABOVE FINISHED FLOOR.
- ST CEILING MOUNTED STROBE. INSTALL AS PER NFPA 72 TABLE 6-4.4.1(b)
- FAP FIRE ALARM STAND ALONE CONTROL PANEL SEMI-FLUSH MOUNTED ADDRESSABLE TYPE, MODULAR DESIGN WITH ENOUGH CAPACITY TO SUPPORT DEVICES INDICATED, UNIT SHALL BE MICROPROCESSOR BASED, PRE-CONFIGURED, MODULAR DESIGN WITH INTELLIGENT INITIATING CIRCUITS TO SUPPORT SHOWN DEVICES. PROVIDE CABINET ROOM FOR SYSTEMS BATTERIES, BATTERIES AND BATTERY CHARGER.

FIRE ALARM NOTES:

1-WIRING SHALL BE AS RECOMMENDED BY SYSTEM'S MANUFACTURER.

2-COORDINATE FINAL CONDUIT SIZES WITH SYSTEM MANUFACTURER.

3-FINAL LOCATIONS OF DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL FINISHES AND NFPA-72 REQUIREMENTS, THE LATTER TO PREVAIL IN CASE OF DISCREPANCIES.

4-LOUDSPEAKERS AND THEIR ENCLOSURES SHALL BE LISTED FOR VOICE/ALARM SIGNALING SERVICES.

5-EACH ELEVATOR CAR SHALL BE EQUIPPED WITH A SINGLE LOUDSPEAKER. PROVIDE AN ELEVATOR PAGING ZONE TO SERVE THE ELEVATOR GROUP.

6-PROVIDE SEPARATE ZONES TO SERVE STAIRWAY SPEAKERS. PROVIDE SPEAKERS IN ALL ENCLOSED STAIRWAYS EXCEEDING TWO STORES IN HEIGHT.

7-PROVIDE SEPARATE ZONES TO SERVE ELEVATOR LOBBY SMOKE DETECTORS. CONNECT THESE SMOKE DETECTORS TO FAP AND ELEVATOR RECALL PANEL.

8-VISIBLE APPLIANCES SHALL BE LOCATED NO MORE THAN 15 FT.(4572) FROM THE END OF THE CORRIDOR WITH A SEPARATION NO GREATER THAN 100 FEET(30.48m.) BETWEEN APPLIANCES.

9-FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 101, NFPA 72 AND DEPT. DE BOMBEROS DE P.R. REQUIREMENTS. IN CASE OF DISCREPANCY THE STRINGEST CODE WILL APPLY.

GENERAL NOTES:

1-EMT CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4"(19) IPS MINIMUM SIZE.

2-EMT FITTINGS SHALL BE CONCRETE TIGHT.

3-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.

4-WIRING DEVICES AND PLATES SHALL BE IVORY COLORED, SPECIFICATION GRADE.

5-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND LUMA REGULATIONS, LATEST EDITION.

6-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7-DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8-ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9-CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

10-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.

12-CONTRACTOR MUST SUPPORT ALL RECESSED FIXTURES INDEPENDENTLY FROM HUNG CEILING SUPPORT.

13-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MINIMUM DEPTH OF 36"(914) BELOW FINISHED GRADE, UNLESS COVERED BY 4"(101) CONCRETE ENVELOPE IN WHICH CASE MINIMUM DEPTH SHALL BE 18"(457) BELOW FINISHED GRADE.

14-IN CASE OF SUBSTATION WITH PRIMARY METERING, A 3/4"(19) PVC SCHEDULE 40 EMPTY CONDUIT SHALL BE INSTALLED BETWEEN PRIMARY METER COMPARMENT AND MAIN TELEPHONE CABINET.

15-LAUNDRY RECEPTACLES SHALL BE INSTALLED 6"(152) ABOVE WATER FAUCETS SERVING WASHER.

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O UTILIZACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y ESCRITO RECIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALAU, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES PARA ESTE PROYECTO, ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE APLICAN A ESTE PROYECTO. ASIMISMO, QUE LA CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES SI HA COMENZADO CUMPLIRA CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE SECCIÓN ENMENDADA, SEGÚN APLICAN. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PROPUESTO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01			

Desarrollo de Diseno Esquematico

LEGEND & NOTES

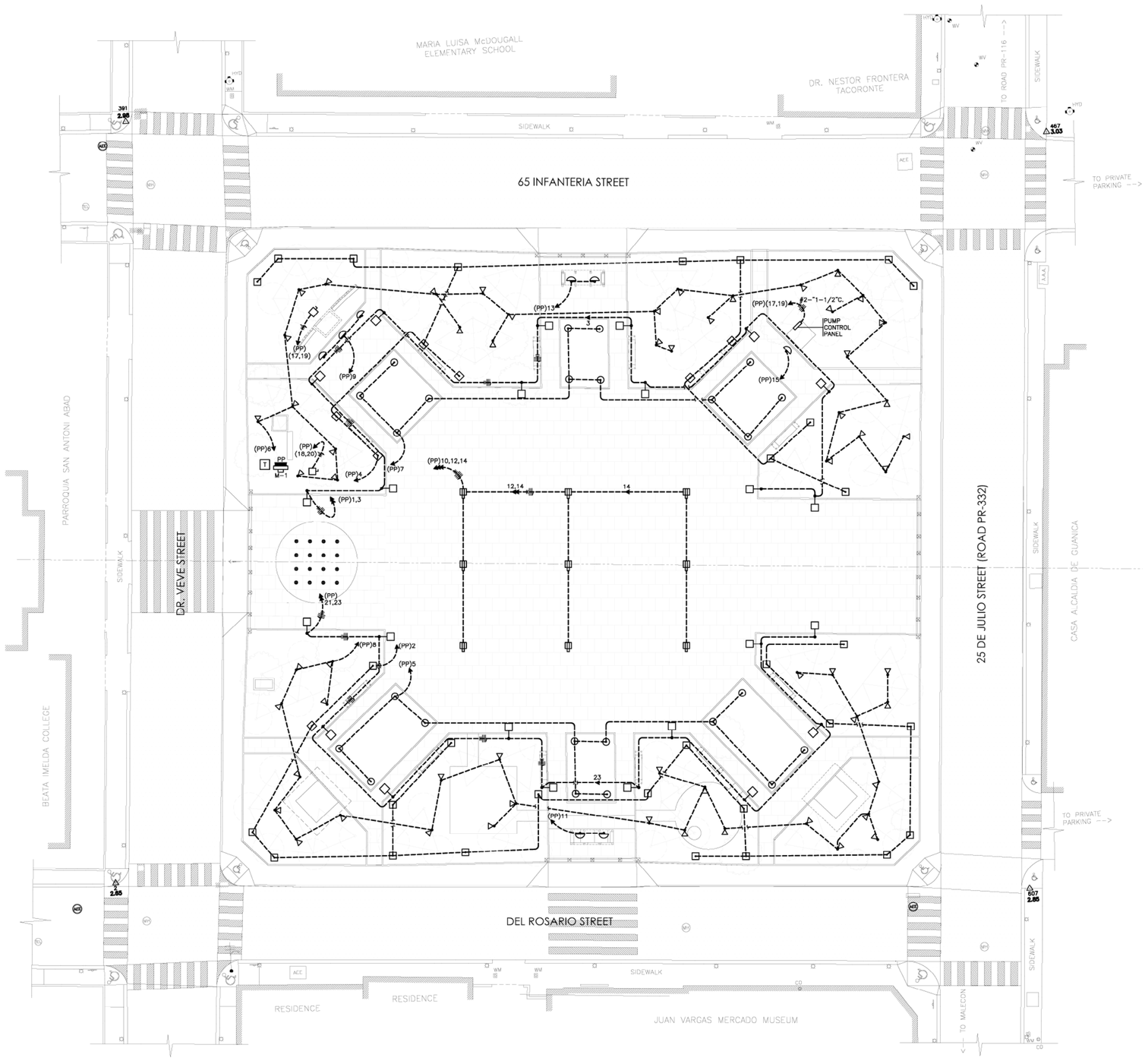
JRR
JUAN R. ROBLEDO & ASOCIADOS
INGENIEROS, C.S.P.

designed: Ing. A. Calzada lic.: 15089
drawn by: lic.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1-1
trg num 22260

drawing sheet number:
E-0



SITE LEGEND:

- "BALI" LED HIGH LIGHT FIXTURE W/LAMPPOST, BY ESCOFET OR APPROVED EQUAL.
- "CREAM" MEDIUM LED LIGHT FIXTURE W/COLUMN BY ESCOFET, OR APPROVED EQUAL.
- "CREAM" LOW LED LIGHT FIXTURE W/CUBE BASE BY ESCOFET, OR APPROVED EQUAL.
- LANDSCAPE AMBIENT GROUND LIGHTING.
- LANDSCAPE AMBIENT FLOOD LIGHTING.
- FLOOR LEVEL UTILITY ELECTRICAL RECEPTACLES
- SERVICE CONNECTION TO NEW FOUNTAIN PUMP HOUSE
- SERVICE CONNECTION TO NEW WALK THRU WATER FOUNTAIN FEATURE.

ELECTRICAL SITE PLAN

Scale 1/16" = 1'-0"

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC - Corporación 650, REPRODUCCION O UTILIZACION SIN LA AUTORIZACION ESCRITA DE LOS MISMOS HA SIDO EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALAU, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES, Y QUE HE EXAMINADO LOS MISMOS Y ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLE DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS RECLAMENTADORAS O CORPORACIONES PUBLICAS QUE REGULAN LA CONSTRUCCION EN EL AREA DONDE SE UBICARA ESTE PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PEERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE SEPTIEMBRE DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE SEGUROS AMBIENTALES, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE EN CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01.			

Desarrollo de Diseno Esquematico

ELECTRICAL SITE PLAN

JUAN R. REDONA & ASOCIADOS INGENIEROS, C.S.P.

designed Ing. A. Calzada lic.: 15089
drawn by lic.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1-1
trg num 22260

drawing sheet number:
E-1

ELECTRICAL CONSTRUCTION PLAN NOTES

GENERAL NOTES:

1-THESE PLANS COINCIDE WITH THE PLANS SUBMITTED AT "I.G.P.E."

2-OWNER IS RESPONSIBLE OF OBTAINING ALL FEDERAL, STATE, MUNICIPAL & PRIVATE REQUIRED PERMITS & RIGHT OF WAYS CONCERNING THIS TYPE OF PROJECT.

3-OWNER MUST CONTRACT THE SERVICES OF A PUERTO RICO LICENSED ENGINEER WHO WILL BE RESPONSIBLE OF INSPECTING THE WORK IN ACCORDANCE WITH NUMBER 7 CERTIFICATION LAW JULY 19, 1985, AS AMMENDED, AND WILL ENFORCE LUMA'S ELECTRICAL CONSTRUCTION PROJECT PLANS CERTIFICATION REGULATION. OWNER MUST NOTIFY LUMA, THE PRIVATE INSPECTOR DESIGNATION BEFORE PROJECT BEGINS.

4-ELECTRICAL CONTRACTOR SHALL PERFORM THIS WORK, AS DESIGNED ON THESE DRAWINGS. CONTRACTOR MUST OBSERVE THE BEST ELECTRICAL CONSTRUCTION INDUSTRY PRACTICES. INSTALLATION SHALL BE IN ACCORDANCE WITH LUMA'S & CONCERNING AGENCIES ADOPTED RULES & REGULATIONS, NEC, NESC CODES, IEEE, NFPA, NEMA & ANSI ADOPTED STANDARDS.

5-CONTRACTOR IS NOT AUTHORIZED TO MAKE CHANGES TO THIS DESIGN. CONTRACTOR IS RESPONSIBLE FOR CONSULTING THE DESIGNER OR PROJECT DESIGNATED INSPECTOR REGARDING ANY DOUBT IN PLANS, INTERPRETATION, WORK EXECUTION, TECHNICAL SPECIFICATION, EXISTING FIELD CONDITION, DESIGN CRITERIA OR DISCREPANCES THAT MAY APPEAR.

6-ELECTRICAL CONTRACTOR SHALL NOTIFY LUMA OF THE START OF CONSTRUCTION AT LEAST 15 DAYS BEFORE PROJECT START, CONTRACTOR SHALL DO SO BY FILING PREPA'S CONSTRUCTIONS START DOCUMENT.

7-ELECTRICAL CONTRACTOR AND PRIVATE INSPECTOR ARE RESPONSIBLE TO SCHEDULE, ASSIST, & COORDINATE WITH LUMA'S CORRESPONDING REGION DISTRIBUTION ENGINEERING DEPARTMENT A PRE-CONSTRUCTION MEETING.

8-ALL WORK ON ENERGIZED LINES, INCLUDING THE PROJECT FINAL CONNECTION, MUST BE DONE BY LUMA AND THE OWNER MUST ASSUME ALL THE EQUIPMENT, MATERIAL & LABOR COST. OWNER CVIA PROJECT'S CONTRACTORS MUST REQUEST TO LUMA A JOB QUOTE. THE QUOTE IS VALID FOR 3 MONTHS.

9-PERFORMING ANY KIND OF WORK ON ELECTRICAL RIGHT OF WAY WITHOUT LUMA'S WRITTEN AUTHORIZATION IS STRICTLY PROHIBITED.

10-LUMA WILL NOT APPROVE ANY CONNECTION OF PROJECTS THAT ARE INVADING RIGHT OF WAYS OR THAT DO NOT COMPLY WITH THE REQUIRED SECURITY SET BACKS.

SYSTEMS:

1-IT IS OWNER'S/CONTRACTOR RESPONSIBILITY TO PERFORM CABLE TESTS TO ALL PRIMARY AND SECONDARY FEEDERS AND STRESS CONES. TESTS RESULTS MUST BE IN ACCORDANCE WITH LUMA'S ESTABLISHED PARAMETERS FOR EACH TEST. TEST MUST BE PERFORMED IN COORDINATION WITH LUMA'S ENGINEERING DEPARTMENT'S INSPECTIONS OFFICE REPRESENTATIVE.

2-DURING CABLE INSTALLATION, CABLE MUST BE PROTECTED FROM HUMIDITY AND DAMAGES. CONTRACTOR IS RESPONSIBLE FOR INSTALLING CABLES USING RECOMMENDED PULLING TECHNIQUES IN ORDER NOT TO EXCEED SPECIFIED CABLE MAXIMUM PULLING TENSION.

3-MANHOLE COVERS TO BE INSTALLED AT GREEN PLANTING AREAS MUST BE PROTECTED USING A REINFORCED CONCRETE SLAB AS PER LUMA'S STANDARD URD-52.

4-WHEN PROJECT LOCATION IS LESS THAN A MILE FROM SALTWATER BODIES, POLE RISER CONDUITS MUST BE EITHER PVC SCHEDULE 80 OR FIBERGLASS CONSTRUCTION AS APPROVED BY LUMA

5-UNDERGROUND CONDUIT DUCT BANK MUST BE INSPECTED BY LUMA BEFORE IT IS COVERED AND COMPACTED WITH EARTH.

6-ALL DUCT BANK EXPOSED TO VEHICULAR TRAFFIC MUST BE PROTECTED WITH A CONCRETE ENVELOPE. THOSE THAT ARE NEAR OTHER UTILITIES INSTALLATIONS MUST BE 18" MINIMUM SPACING FROM THEM.

7-THE QUANTITY OF SPARE FUSES THAT CONTRACTOR MUST SUPPLY IS THE SAME QUANTITY AS FUSES INSTALLED AT EACH SUBSTATION.

8-GROUNDING CONNECTORS TO BE USED FOR SUBSTATIONS MUST BE THERMO-WELD OR COMPRESSION TYPE.

9-CONTRACTOR MUST PROVIDE PULLING WIRE (FISHWIRE) AT EACH SPARE CONDUIT.

10-MAXIMUM GROUND RESISTANCE AT ALL DISTRIBUTION SYSTEMS MUST BE 10 OHMS. A GROUNDING ROD FOR NEUTRAL CONNECTION MUST BE INSTALLED FOR EVERY FOUR POLES OR EVERY 1,000 FEET AND IN ALL TRANSFORMERS.

11-TWO SPARE CONDUITS FOR FUTURE USE MUST BE INSTALLED AT EACH CONCRETE POLE BASE AS REQUIRED BY LUMA

12-CONCRETE POLE BASES MUST BE INSPECTED BY LUMA AT THE CONSTRUCTION PHASE.

MATERIALS:

1-ALL EQUIPMENT TO BE USED IN THE CONSTRUCTION HAS TO COMPLY WITH IEEE, ANSI, NEMA & ASTM STANDARDS.

2-CONTRACTOR IS RESPONSIBLE TO VERIFY WITH LUMA, PRIOR TO INSTALLATION, THAT ALL MATERIAL OR EQUIPMENT TO BE USED IS LUMA APPROVED. LUMA RESERVES THE RIGHT OF ACCEPTING ANY EQUIPMENT TO BE TRANSFERRED TO THEM.

3-ALL MATERIAL & EQUIPMENT (INCLUDING TRANSFORMERS & SUBSTATION ENCLOSURES) TO BE INSTALLED WITHIN ONE (1) MILE OR LESS OF SALTWATER BODIES MUST BE CONSTRUCTED IN STAINLESS STEEL.

4-FOR UNDERGROUND SYSTEMS, USE PRIMARY CABLES WITH 15KV STRESS CONE FOR DISTRIBUTION VOLTAGES AND 46KV STRESS CONE FOR 38KV VOLTAGE.

5-FOR OVERHEAD SYSTEMS, USE 15KV POLYMER INSULATORS FOR DISTRIBUTION VOLTAGES AND 46KV POLYMER INSULATORS FOR 38KV VOLTAGE.

6-CONTRACTOR IS RESPONSIBLE FOR PROPERLY MARKING ALL TRANSFORMERS TO BE TRANSFERRED TO LUMA WITH A PROPERTY NUMBER PROVIDED BY THE CORRESPONDING DISTRIBUTION ENGINEERING DEPARTMENT.

SPECIAL NOTES:

1-PROJECT OWNER SHALL PAY LUMA THE AMOUNT OF $264.00 FOR THE EXISTING ELECTRICAL SYSTEM IMPROVEMENTS.

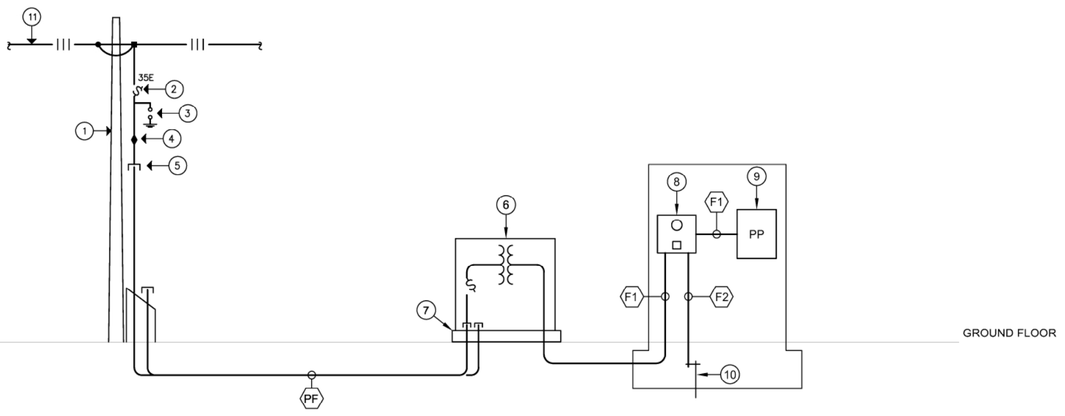
2-LUMA WILL NOT ENERGIZE THE PROJECT UNTIL THE OWNER HAS ESTABLISHED THE REQUIRED RIGHT OF WAYS IN ACCORDANCE WITH "REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA". THIS NOTE APPLIES TO ALL REQUIRED RIGHT OF WAY, INSIDE & OUTSIDE THE PROPERTY LIMITS.

3-THE INSTALLATION OF THE METERING SYSTEMS HAS TO BE COORDINATED WITH THE REGIONAL METERING OFFICE. DESIGNER OR ELECTRICAL CONTRACTOR HAS TO CONSULT WITH THIS OFFICE ABOUT MATERIALS & EQUIPMENTS TO BE USED AND EQUIPMENT LOCATION.

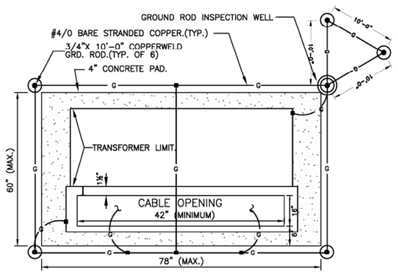
4-THE INSTALLATION OF ELECTRICAL SUBSTATIONS, TRANSFORMERS OR ANY OTHER ELECTRICAL EQUIPMENT OVER SEWER SYSTEM, WATER LINES OR ANY OTHER UTILITIES IS PROHIBITED.

5-PRIOR TO PURCHASING ANY METERING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LUMA METERING SECTION THE AVAILABILITY OF EQUIPMENTS TO BE SUPPLIED BY LUMA.

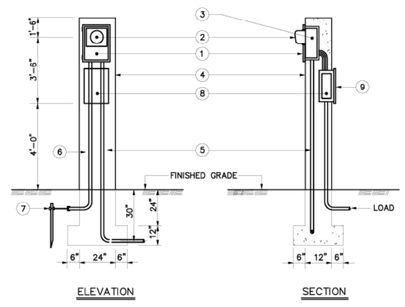
6-IF THIS PROJECT REQUIRES LUMA BULK POWER RATE CONTRACT, WHICH IS REQUIRED TO BE SIGNED PRIOR TO ENERGIZING THE PROJECT. THE LOCATION, EQUIPMENT AND METER TYPE TO BE USED SHALL BE COORDINATED WITH "OFICINA IRREGULARIDADES EN EL CONSUMO DE ENERGIA ELECTRICA-MEDICION". SUPERVISOR AT SAN JUAN REGIONAL OFFICE.



ONE LINE DIAGRAM
N.T.S.



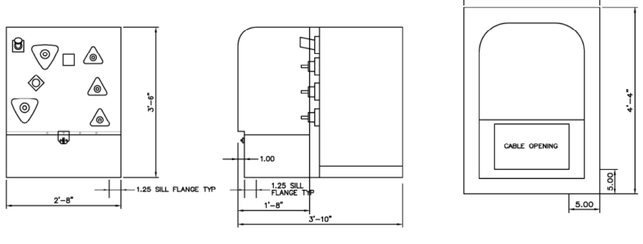
PAD MOUNTED TRANSFORMER GRD. DETAIL
N.T.S.



CONCRETE PEDESTAL FOR A VANDAL PROOF ELECTRICAL METER INSTALLATION
N.T.S.

CONCRETE PEDESTAL – ITEMS DESCRIPTION:

1. STAINLESS STEEL DOOR 16"W x 24"HC 1/8" THICK WITH 2–HINGES AND PADLOCKING FACILITIES. DOOR SHALL BE PAINTED WITH AN ANTIRUST PAINT.
2. LEXAN GLASS OR APPROVED EQUAL.
3. ELECTRICAL METER BASE, 200A, 120/240, 1 PHASE, 3 WIRES; W/100A, 250V, 2P M.C.B.
4. STEEL REINFORCED CONCRETE PEDESTAL.
5. INCOMING FEEDER.
6. 1#6 THW WIRE (G.G.) IN 1" RIGID PVC SCHEDULE 40 CONDUIT.
7. 5/8" x 10'–0" COPPER GROUND ROD WITH A BRASS CLAMP AT 6" B.F.G.
8. LIGHTING PANEL AS PER PANEL SCHEDULE.
9. WEATHER AND VANDAL PROOF DOOR FOR PANEL ENCLOSURE PROVIDED WITH PADLOCKING FACILITIES.



PAD MOUNTED TRANSFORMER DETAIL
N.T.S.

EQUIPMENT SCHEDULE:

1. NEW POLE WITH NEW RISER TO DONE BY CONTRACTOR URD-1A, 4 & 5.
2. 100A, 27KV 150KVBIL OPEN FUSE CUTOUT WITH 10E FUSES.
3. 10KV OUTDOOR TYPE M.O.V. LIGHTNING ARRESTER.
4. 15KV OUTDOOR TYPE PREFABRICATED STRESS CONE.
5. SEALING FITTINGS. TYPE & SIZE AS REQUIRED.
6. PAD MOUNTED TRANSFORMER 50KVA, OISC, NON-PCB, STAINLESS STEEL CONSTRUCTION. COPPER WINDING, BIL AS PER PREPA'S STANDARDS 7.62KV-240/120V-1Ø WITH ELBOW TYPE CONNECTORS, 10KV LIGHTING ARRESTERS, 5E 15KV FUSES. LOW LOSSES CONSTRUCTION ACCORDING TO DOE & PREPA STDS. PREPA APPROVED TYPE.
7. 6" CONCRETE PAD.
8. LUMA'S COMBINATION METER SOCKET & MAIN BREAKER. 120/240V-1Ø-3W-S/N-200 AMPS. WITH ONE 200 AMPS-2P MAIN BREAKER.
9. NEW PANELBOARD 1Ø-3W-S/N-120/240V-225A M.L.O. NEMEA 4X SS, VANDALPROOF. SEE SCHEDULE.
10. 10'-0" x 5/8" COPPERWELD GROUND ROD.
11. NEW 3Ø-4W-13.2KV OVERHEAD LINE TO BE CONSTRUCTED PART OF THIS PROJECT.
12. RAINFORCED CONCRETE PEDESTAL.

FEEDER SCHEDULE:

- PF → 1#2 AWG-15KV-COPPER-TRXLPE-90C-SHIELDED & PVC JACKET & 1#2AWG RHH IN 3" PVC SCHED. 40 C. & 1-3" PVC SCHED. 40 PVC SPARE CONDUIT.
- F1 → 3#3/0 AWG & 1#6 (GD) - 2 1/2" PVC CHED. 40 C.
- F2 → 1#6 GROUND GREEN CONDUCTOR - 1"PVC SCHED 40 C.

PANEL SCHEDULE

PANEL DESCRIPTION: PP	LOCATION: METER CONCRETE PEDESTAL
VOLTS: 1ø–3W–S/N–120/240V	AMPS: 225A M.L.O.
MOUNTING: FLUSH	I.C.: 10,000 A.I.C.
PANEL TYPE: NQOD	REMARKS: NEMA 4X S.S.

LOAD DESCRIPTION	FRAME	TRIP	CKT. NO.	CKT. NO.	TRIP	FRAME	LOAD DESCRIPTION
PLAZA POLES	QO	20	1	2	20	QO	BOLLARDS
PLAZA POLES	QO	20	3	4	20	QO	BOLLARDS
BOLLARDS	QO	20	5	6	20	QO	ACCENT LIGHTS
BOLLARDS	QO	20	7	8	20	QO	ACCENT LIGHTS
FLOOD LIGHTS	QO	20	9	10	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	11	12	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	13	14	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	15	16	20	QO	SPARE
PUMP (7.5HP)	QO	100	17	18	20	QO	SPARE
			19	20	20	QO	SPARE
PLAZA POLES	QO	20	21	22	20	QO	SPARE
PLAZA POLES	QO	20	23	24	20	QO	SPARE
SPARE	QO	20	25	26	20	QO	SPARE
SPARE	QO	20	27	28	20	QO	SPARE
SPARE	QO	20	29	30	20	QO	SPARE
SPARE	QO	20	31	32	20	QO	SPARE
SPARE	QO	20	33	34	20	QO	SPARE
SPARE	QO	20	35	36	20	QO	SPARE
SPARE	QO	20	37	38	20	QO	SPARE
SPARE	QO	20	39	40	20	QO	SPARE
SPARE	QO	20	41	42	20	QO	SPARE

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIERA USO, REPRODUCCION O DISTRIBUCION DE ESTE SIN EL CONSENTIMIENTO Y AUTORIZACION EXPRESAMENTE PREVIAMENTE Y POR ESCRITO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALER, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO O SUPERVISADO SU PREPARACION, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLE DEL RECLAMANTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS RECLAMANTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS RECLAMANDORAS O CORPORACIONES PUBLICAS APLICABLES. ASIMISMO CERTIFICO QUE SOY EL DUEÑO DE LA OBRA DE ESTOS PLANOS Y ESPECIFICACIONES SI NO CONTRATO CERTIFICANTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY DE PATENTES NACIONALES, SEGUN APLICAN. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01			

Desarrollo de Diseno Esquematico

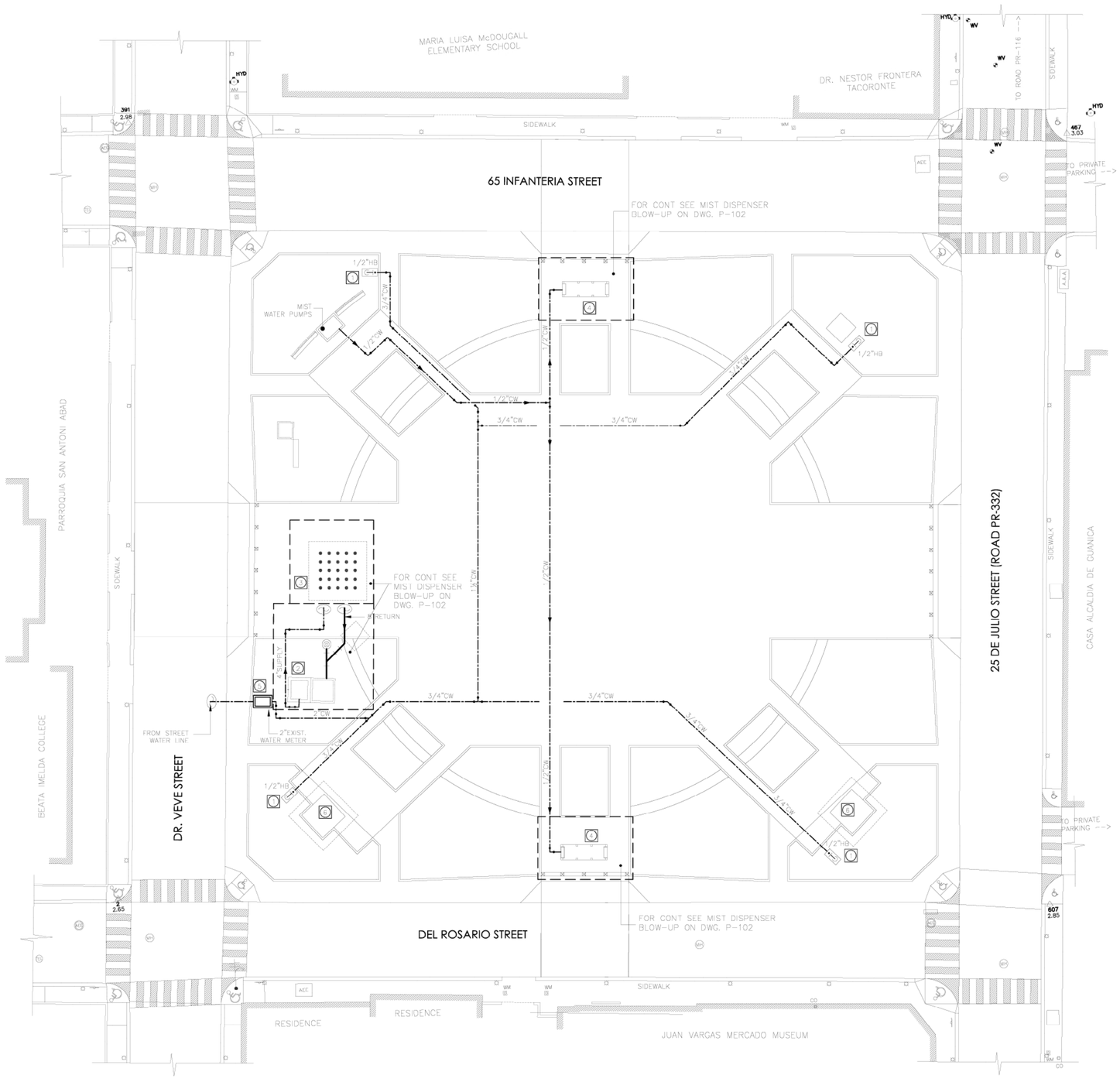
PANEL SCHEDULE

JRR
JUAN R. RIQUELME ASSOCIATES
INGENIEROS CIVILES
designed Ing. A. Calzada lic.: 15089
drawn by lic.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1 - 1
trg num 22260

drawing sheet number:
E-2



WATER PLUMBING SITE PLAN

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

SITE LEGEND:

- OUTDOOR HOSE BIBB W/LOCKSET
- WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
- WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
- SATELLITE MIST DISPENSE
- LANDSCAPE IRRIGATION SYSTEM.
- EXISTING KIOSKO
- NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
- NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y 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 Codigos de Construccion Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion. Certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con la dispuesto en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1938, según enmendada; Ley núm. 96 de 6 de julio de 1978, según enmendada; según aplique). Reconozco que cualquier declaracion falsa o falsificación de los hechos que se hayo producidos 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.

FECHA: JULIO, 2023

ENGINEERING, PSC
CONSULTING ENGINEERS
PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

ENGINEERING, PSC
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO PREVIO Y EXPRESAMENTE PROVISTO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. REIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL RECLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA; SEGUN APLIQUE). RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	07.23.22	Desarrollo Diseno Esquematico	ER
2	01.15.23	Desarrollo Diseno Preliminar	ER

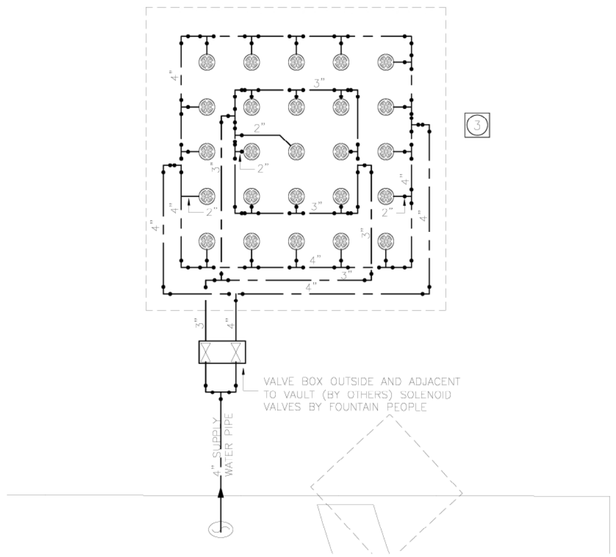
Desarrollo de Diseno Esquematico

WATER PLUMBING
SITE PLAN

drawn by ...
checked by A. DAJER
file 22260 AS01
plot scale 1=1
trg num 22260

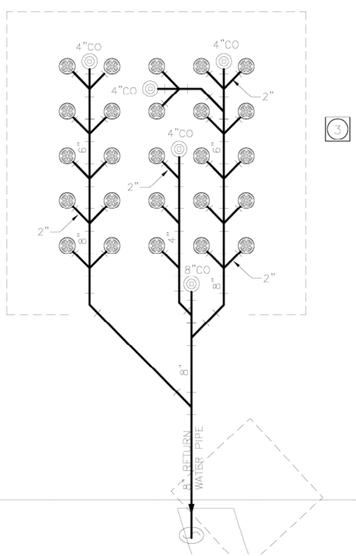
drawing sheet number:
P-101

SVADGING Drawings\Projects 2023\23-063 P-101.dwg, Thursday, July 20, 2023 2:12:33 PM, Adobe PDF



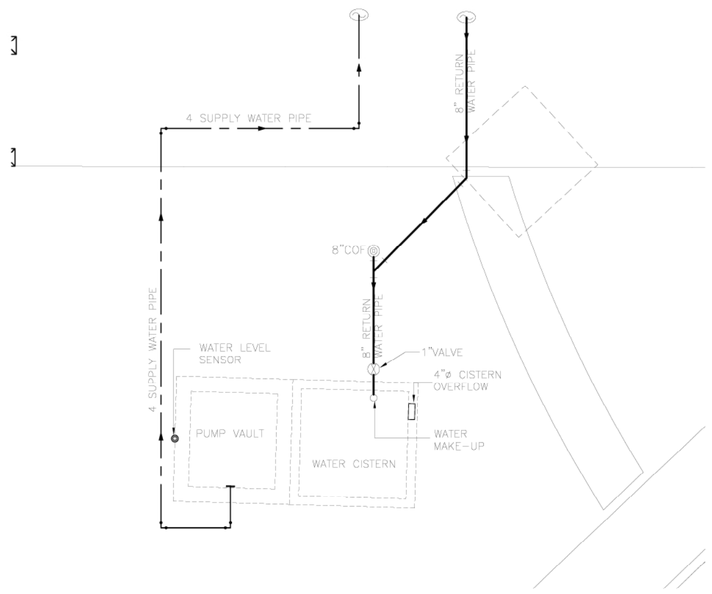
WALKOVER SUPPLY WATER
WATER FOUNTAIN BLOW-UP

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



WALKOVER RETURN WATER
FOUNTAIN BLOW-UP

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

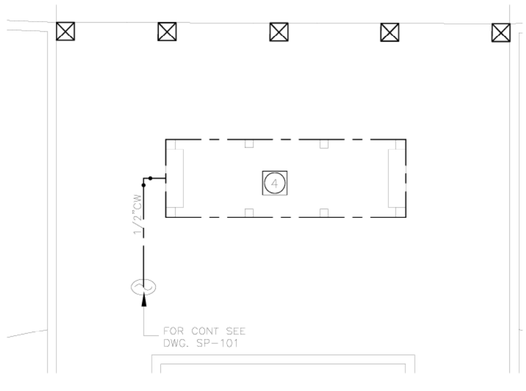


WALKOVER WATER FOUNTAIN
PUMP VALVES & WATER TANK BLOW-UP

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

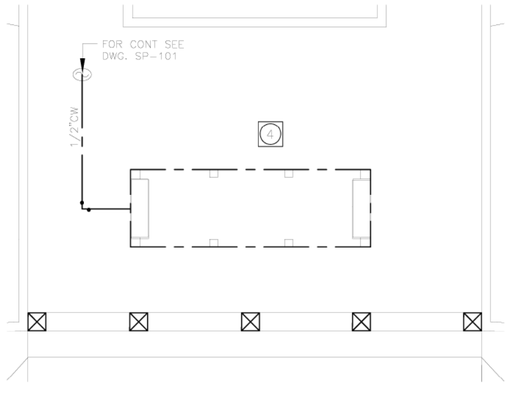
LEGEND:

- OUTDOOR HOSE BIBB W/LOCKSET
- WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
- WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
- SATELLITE MIST DISPENSE
- LANDSCAPE IRRIGATION SYSTEM.
- EXISTING KIOSKO



MIST DISPENSER BLOW-UP

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



MIST DISPENSER BLOW-UP

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

WATER FOUNTAIN EQUIPMENT
EQUAL OR SIMILAR TO FOUNTAIN PEOPLE

EQUIPMENT	DESCRIPTION
PUMP VAULT	MODEL DBVB-SERIES. PREFABRICATED UNDERGROUND ENCLOSURE FOR PUMPS, FILTRATION AND ELECTRICAL CONTROLS. CONTAINING A SELF-PRIMING FILTER PUMP WITH INTEGRATED STRAINER BASKET; SAND FILTER UNIT DISPLAY PUMP; WATER FILL STATION ASSEMBLY (IF APPLICABLE), CHECK VALVE(S) OR COMBINATION FLOW METER/CHECK VALVE OPTION, 6" VENT CONNECTIONS WITH VENTILATION FAN; INTEGRAL SUMP WELL AND AVAILABLE 2" GRAVITY DRAIN CONNECTION; AUTOMATIC SUBMERSIBLE PUMP, U.L. 508 LISTED CONTROL PANEL. (NEMA 4) INCLUDES MAIN DISCONNECT SWITCH; PUMP MOTOR STARTER WITH CIRCUIT BREAKER (SINGLE PHASE APPLICATION), MOTOR STARTER WITH ADJUSTABLE, SOLID-STATE MOTOR PROTECTOR (THREE PHASE APPLICATIONS). 24/7 TWO-CHANNEL PROGRAMMABLE TIME CLOCK FOR PUMP AND (LIGHTS IF APPLICABLE). NOTE GFCI BARKERS AND WATER LEVEL/LOW LEVEL CUTOFF CONTROL CIRCUITRY INCLUDED.
WATER FOUNTAIN NOZZLE	FIAC-1000 SERIES FOUNTAIN-IN-A-CAN. A "POUR IN PLACE"FLUSH MOUNT SPRAY EFFECT WITH 360 DEGREE LIGHT FIXTURE. THE ASSEMBLY INCLUDES A STAINLESS STEEL HOUSING WITH 1/4" THICK STAINLESS STEEL DRAIN COVER AND CONTAINS (1) INTERCHANGEABLE FOUNTAIN NOZZLE. 2" INLET CONNECTION, 2" DRAIN CONNECTION.
WATER LEVEL PROBE	MODEL WLS-CG-3 SERIES. POLYPROPYLENE HEAD CONSTRUCTION, 3 OR 5 PROBE ELECTRICAL CONNECTIONS, ELECTRODE ARE STAINLESS STEEL PIPE THREAD 1½". CABLE CONNECTION SCREW TERMINALS.
CISTERN WATER FLOW	FWD-300B BRONZE HOUSING WITH AN INTEGRAL WATERSTOP FLANGE AND A LARGE FULL-FACE REMOVABLE STRAINER GRILL. THE HOUSING INCLUDES A FEMALE THREADED CONNECTION AND A PERMANENTLY AFFIXED BONDING LUG. CONSTRUCTION IS CAST BONZE AND BRASS WITH A NATURAL FINISH.
TOUCH ACTIVATOR (FOR AND MIST SYSTEM)	WATER ODYSSEY – MODEL TOUCH N' GO BOLLARD
MIST SYSTEM PRE-FARRICATED PUMP AND FILTER STATION	ADVANCE MISTING SYSTEM DIRECT DRIVE MISTING ENCLOSED 1.5 HP HIGH PRESSURE PUMP STATION WITH FILTER. ADDITIONAL ACCESSORIES, SCALE X FILTER, AND LOW PRESSURE SWITCH. TUBING FROM PUMP TO NOZZLE MANIFOLDS TO BE 1000 PSI RATED HIGH PRESSURE NYLON.

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y 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 Codigos de Construccion Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion. Certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1958, 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.

FECHA: JULIO, 2023

ENGINEERING, PSC
CONSULTING ENGINEERS

PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

ENGINEERING, PSC
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DEL TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA DISPUESTO EN LA LEY 14-2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA; SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.



nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	07.25.22	Desarrollo Diseno Esquematico	ER
1	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING
BLOW-UPS

drawn by A.
drawing sheet number:
checked by A. DAJER
file 22260 AS01
plot scale 1=1
trg num 22260

P-102

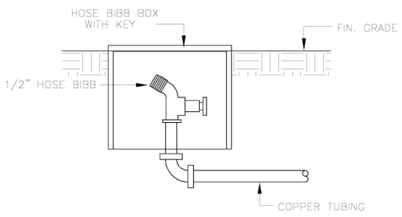
S:\ADG\ENG Drawings\Projects 2023\23-063 Plaza Publica Guanica\23-363 P-102.dwg, Thursday, July 20, 2023 2:13:00 PM, Adobe PDF

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE INTERNATIONAL PLUMBING CODE (2018 EDITION PUERTO RICO AQUEDUCTS AND SEWER AUTHORITY (PRASA)) AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
2. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY, TO COMPLY WITH CODES REQUIREMENTS OR AS SHOWN ON THESE DRAWINGS.
3. ALL HORIZONTAL PORTIONS OF SOIL WASTE STACKS & BRANCHES SHALL SLOPE 1/8" PER FEET, EXCEPT FOR SIZES 3" & SMALLER THAT SHALL BE 1/4" PER FEET.
4. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".
5. THE CONTRACTOR SHALL FURNISH AND SET IN PLACE BEFORE CONCRETE POURING ALL NECESSARY SLEEVES FOR WASTE OR SOIL, COLD OR HOT WATER LINES. THESE SLEEVES SHALL BE AS PER THE SPECIFICATIONS.
6. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY OTHER CONTRACTORS.
7. FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
8. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER, SOLDER JOINTS.
9. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
10. ALL DRAINS TO BE CAST IRON UNDER AND ABOVE FLOOR SLABS AND VENTILATION LINES AT WALLS.
11. THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
12. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
13. BIDDERS SHALL VISIT THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK, WHICH WILL BE THE ONLY OPPORTUNITY FOR POTENTIAL CONTRACTOR TO SEE THE SITE. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE CONTRACTING OFFICER.
14. CONTRACTOR SHALL DISPOSE OF THE REMOVED ITEMS SELECTED BY OWNER FOR DISPOSAL, AND SHALL STORE THE ITEMS SELECTED FOR SALVAGE IN THE PLACE INDICATED BY OWNER. DISPOSAL SHALL BE PERFORMAMED IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.
15. THE CONTRACTOR SHALL USE MATERIALS FOR CUTTING AND PATCHING THAT ARE IDENTICAL TO EXISTING MATERIALS. BEFORE CUTTING, EXAMINE THE SURFACES TO BE CUT AND PATCHED AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. IF UNSAFE OR OTHERWISE UNSATISFACTORY CONDITIONS ARE ENCOUNTERED, TAKE CORRECTIVE ACTION BEFORE PROCEEDING WITH THE WORK. CUT THE WORK USING SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING. NOT HAMMERING AND CHOPPING. CUT THROUGH CONCRETE USING CUTTING MACHINE SUCH AS A CARBOURUNDUM SAW OR CORE DRILL TO INSURED NEAT HOLE. RESTORE EXPOSED FINISHED OF PATCHED AREAS AND, WHERE NECESSARY, EXTEND FINISH RESTORATION INTO RETAINED ADJOINING AND REFINISHING. WHERE PATCHED OCCURS IN A SMOOTH PAINT SURFACES, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING PATCH, AFTER PATCHED ARE HAS RECEIVED PRIME AND BASE COAT.
16. CONTRACTOR SHALL CONSULT THE OWNER AS TO WORKING SPACE AND AREA FOR THE LOCATION OF STORING SHACK OR TRAILER. STORAGE SPACE IN LIMITED AND POSSIBLE NONE EXISTANT. CONTRACTOR SHALL PROVIDE A TRAILER
17. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
18. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
19. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED.
20. WITH RESPECT TO THE EQUIPMENT AND PIPING, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS. NO ALLOWANCES SHALL BE GRANTED BECAUSE OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON DRAWINGS. THE MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
21. CONTRACTOR SHALL VERIFY ON FIELD THE EXISTING COLD WATER AND SANITARY FACILITIES PRIOR TO START THE WORK.
22. CONTRACTOR SHALL INSTALL A GATE VALVE IN EACH COLD WATER LINE BEFORE ENTER TO THE BUILDING TO ISOLATE THE THAT AREA FROM THE OTHERS.

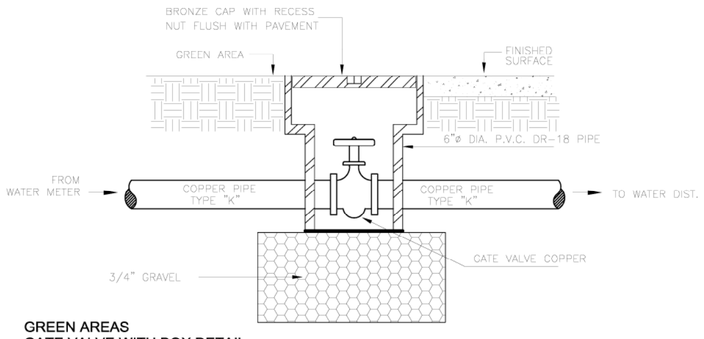
PIPING MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL
COLD WATER – ABOVE GROUND	COPPER TYPE L
COLD WATER – UNDER GROUND	COPPER TYPE K
HOT WATER – ABOVE GROUND	COPPER TYPE L
HOT WATER – UNDER GROUND	COPPER TYPE K
SANITARY – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
SANITARY – UNDER GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – UNDER GROUND	DWV SCH. 40 – ASTM D 2662



HOSE BIBB WITH BOX DETAIL

NOT TO SCALE



GREEN AREAS
GATE VALVE WITH BOX DETAIL

NOT TO SCALE

PLUMBING LEGEND:

CW — COPPER COLD WATER LINE – DIAMETER AS INDICATED

90° PLUMBING COPPER (WELDED) ELBOW

90° PLUMBING COPPER (WELDED) ELBOW TURNED DOWN

SHUT OFF VALVE.

HOSE BIBB–DIAMETER AS INDICATED

SANITARY LINE–DIAMETER AS INDICATED

SANITARY VENT LINE–DIAMETER AS INDICATED

45° LONG TURN ELL–DIAMETER AS INDICATED.

45° SINGLE "Y"–DIAMETER AS INDICATED.

45° WYE BRANCH WITH SIDE INLET FOR VENT. –DIAMETER AS INDICATED.

CLEANOUT FLUSH WITH WALL (COW) AT 12" ABOVE FINISH FLOOR – DIAMETER AS INDICATED.

CLEANOUT FLUSH WITH PLUG (COP) AND CONCRETE BLOCK. DIAMETER AS INDICATED

FLOOR DRAIN (FD) WITH TRAP SEE DETAIL ON DWG. DIAMETER AS INDICATED.

2 — POINT OF CONNECTION (TIE–IN)–NUMBER INDICATES NUMBER OF CONNECTIONS.

P–1 — INDICATES PLUMBING FIXTURE DESIGNATION –SEE PLUMBING FIXTURES SCHEDULE

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y 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 la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1938, 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.

FECHA: JULIO, 2023

ENGINEERING, P.S.C.
CONSULTING ENGINEERS
PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

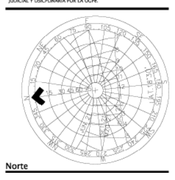
ENGINEERING, P.S.C.
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACIÓN, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCIÓN O DIVULGACIÓN SIN EL CONSENTIMIENTO ESCRITO DE LA COMPAÑÍA ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RÍOS MARTÍNEZ, LICENCIA NÚMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN, CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL RECLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCIÓN. CERTIFICO, ADEMÁS, QUE EN LA PREPARACIÓN DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.



Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
1	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING NOTES, SCHEDULE & DETAILS

drawn by –
checked by A. DAJER
file 22260 A501
plot scale 1=1
trg num 22260

drawing sheet number:
P-201

S:\ADG\ENG Drawings\Projects 2023\23-063 Plaza Publica Guanica\23-363 SY-201.dwg, Thursday, July 20, 2023 9:46:05 AM, Adobe PDF

Appendix J: Eight-Step Decision-Making Process and Final Flood Notice

EXECUTIVE ORDER 11988 – FLOODPLAIN MANAGEMENT
EIGHT-STEP PROCESS
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
COMMUNITY DEVELOPMENT BLOCK GRANT – DISASTER RELIEF (CDBG-DR) PROGRAM

FLOODPLAIN MANAGEMENT 8-STEP DECISION-MAKING PROCESS

Project: "Remodelación de la Plaza Pública Manuel Jiménez Mesa", Municipality of Guánica, Puerto Rico

Project No. PR-CRP-000701, Grant No. B-18-DM-72-0001, B-18-DP-72-0001

Decision Process for Executive Order 11988 as Provided by 24 CFR §55.20.

Step 1: Determine whether the action is located in a 100-year floodplain.

The proposed project, PR-CRP-000823, Remodelación de la Plaza Pública Manuel Jiménez Mesa, is located at is located by Ave 25 de Julio, municipality of Guánica, coordinates 17.972382, -66.907862 with total dimensions of 0.95 acres. The purpose of this project consists of rehabilitation of Manuel Jiménez Mesa Public Square. The scope of work includes of the reconfiguration and enhancement of green areas, the installation of urban furniture, installation of new energy efficient light fixtures as part of the re-greening initiatives, the installation of new playground/exercise features. Also, the project will include the reconfiguration and enhancement of paved areas, ramps, and pedestrian crossings areas. We will have the relocation of existing commemorative features to improve and organize the new space. The objective of the project is to provide a gathering area for community -related activities and enhance re population patterns. The proposed activity is situated in flood zone A with dimensions of 0.95 acres. There will not be acquisition of private land and no new construction on previously undisturbed areas addressed by this notice.

The floodplain in the project area can be found at Flood Insurance Rate Map (FIRMette), map 72000C1960J, effective 11/18/2009, as indicated in the FEMA Flood Map Service Center at https://msc.fema.gov/portal/home.

Refer to Attachment 1 for FIRMette, ABFE Map and Wetland Map.

This analysis will consider impacts to the floodplain along with concerns for loss of life or property; if applicable.

Step 2: Notify the public and agencies.

A public notice describing the project was published in in the "Primera Hora" newspaper of Puerto Rico on January 30, 2023. The notice targeted local residents, including those in the floodplain. The notice was also sent to interested Federal, and State agencies to be interested in such notices. The required fifteen (15) calendar days were allowed for public comment. As required by regulation, the notice also included the name, proposed location and description of the activity, total number of floodplain acres involved, and the responsible entity contact for information as well as a website and the location and hours of the office at which a full description of the proposed action can be viewed. No comments were received. No opposition to the proposed project was expressed by the commentators. Attachment 2 includes copy of the public notice.

Step 3: *Identify and evaluate practicable alternatives.*

The responsible entity has considered the following alternatives:

Alternative 1: Locate the Project Within the Floodplain. – The proposed action is according to zoning. Besides, the proposed project will not exceed the existing developed area and will not change the present use of the area.

Alternative 2: Locate the Project Outside of the Floodplain. - The responsible entity did not identify an alternative site to develop the proposed project, because the main purpose of the project is to improve the passive recreative facility within the urban area.

Alternative 3: No action taken. - The proposed improvements will not be implemented, and the recreative facility will not be enhanced.

Step 4: *Identify Potential Direct and Indirect Impacts*

Alternative 1: Locate the Project Within the Floodplain. –The project at the proposed site will not impact the floodplain and will not have a significant impact on the actual runoff water behavior during weather events. The city of Guánica is a member of the National Flood Insurance Program and structures located in the flood zone must comply with the PR flood regulations. In consequence, the structures will be constructed according to the current regulations designed to minimize these impacts. Potential adverse impacts from construction would be temporary and mitigated through construction staging plans developed in partnership with the Guánica Municipality to minimize disturbance throughout the construction period and at the end of the project. The proposed project will be connected to the existing infrastructure systems to minimize adverse impacts on

the environment and will help preserve the present functions and values like water quality, erosion control and flora & fauna habitat in the park.

Step 5: Mitigate Adverse Impacts

It is the responsible entity determination that there is no practicable alternative for locating the project outside the flood zone.

The highest priority of this review is to prevent the loss of life. No loss of life could be generated as part of the proposed actions. On the contrary, the proposed works would not only generate a positive impact to the actual floodplain in benefit of the people's life, but also would help to protect the financial investment of the contiguous business that actually serves the community.

In order to preserve property, flood insurance will also be acquired and maintained in order to mitigate flood damage. The structures will be elevated at above the ABFE to save on flood insurance cost and to enhance the structures' ability to withstand floods.

The site design chosen as an alternative at Step 3 reduced floodplain impacts and prevented new construction from occurring in the floodplain considering provisions for draining, and using pervious surfaces throughout the site, the construction will have minimal effects on water resources. Impacts to the floodplain will also be limited due to construction occurring within the previously developed site. Construction debris will be collated and disposed at a certified dump site or other authorized facility to manage wastes.

Step 6: Re-Evaluate Alternatives

No new occupancy or modification of the floodplain area will take place since this project consists of an existing recreational facility that is actually in use and that constitute the actual commercial urban area of the municipality of Guánica. The proposed improvements will provide longer useful life of the facility so that it can be continued to be used by citizens of Guánica and their visitors. The People of Puerto Rico and the Municipality of Guánica are the owners of the proposed project site. No additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved.

It is the responsible entity determination that there is no practicable alternative for locating the project outside the flood zone. The proposed project will:

1) Enhance current recreational and outdoor options for the people of Guánica.
2) Provide recreation alternatives to low- and moderate-income communities surrounding the area.

3) Mitigate and minimize impacts on human health, public property, and floodplain values.
4) Have minimal adverse impacts on the floodplain functions and values.
5) Improve existing site's conditions, and infrastructure.
6) Help to prevent further deterioration of the site and to improve traffic safety.
7) Improve tourism to the City of Guánica.

Step 7: Determination of No Practicable Alternative

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1): locate the project within the floodplain according to zoning, (2) locate the project outside of the floodplain (3) no action taken. Alternative 1 is considered a viable option by having no impact to the floodplain by incorporating mostly green open spaces and maintaining the present use of the area necessary for community residents. The proponent considers that the project will not have a significant impact on the actual runoff water behavior during weather events. Alternatives (2) and (3) are not feasible since the needed improvements for revitalization, restoration, and construction of the urban center are site specific. The proposed project must be located in the floodplain by considering the following aspects: (1) the need to provide recreational open spaces for the residents of the community, (2) it will enhance current outdoor recreational options for the residents of the community, (3) the ability to mitigate and minimize impacts on human health, public property, and floodplain values, (4) the people of Puerto Rico and the Municipality of Guánica are the owners of the proposed project site, no additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved, (5) it will have minimal adverse impacts on the floodplain functions and values, (6) it will improve existing site's conditions, and infrastructure, (7) it will help to prevent further deterioration of the site. If no action is taken, the proposed improvements will not be implemented recreative facility will not be enhanced. The proposed use is in harmony with the surrounding developments area.

PRDOH has reevaluated the alternatives to building in the floodplain and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of 24 Executive Order 11988 are available for public inspection, review and copying upon request at the times and location delineated in the last paragraph of this notice for receipt of comments.

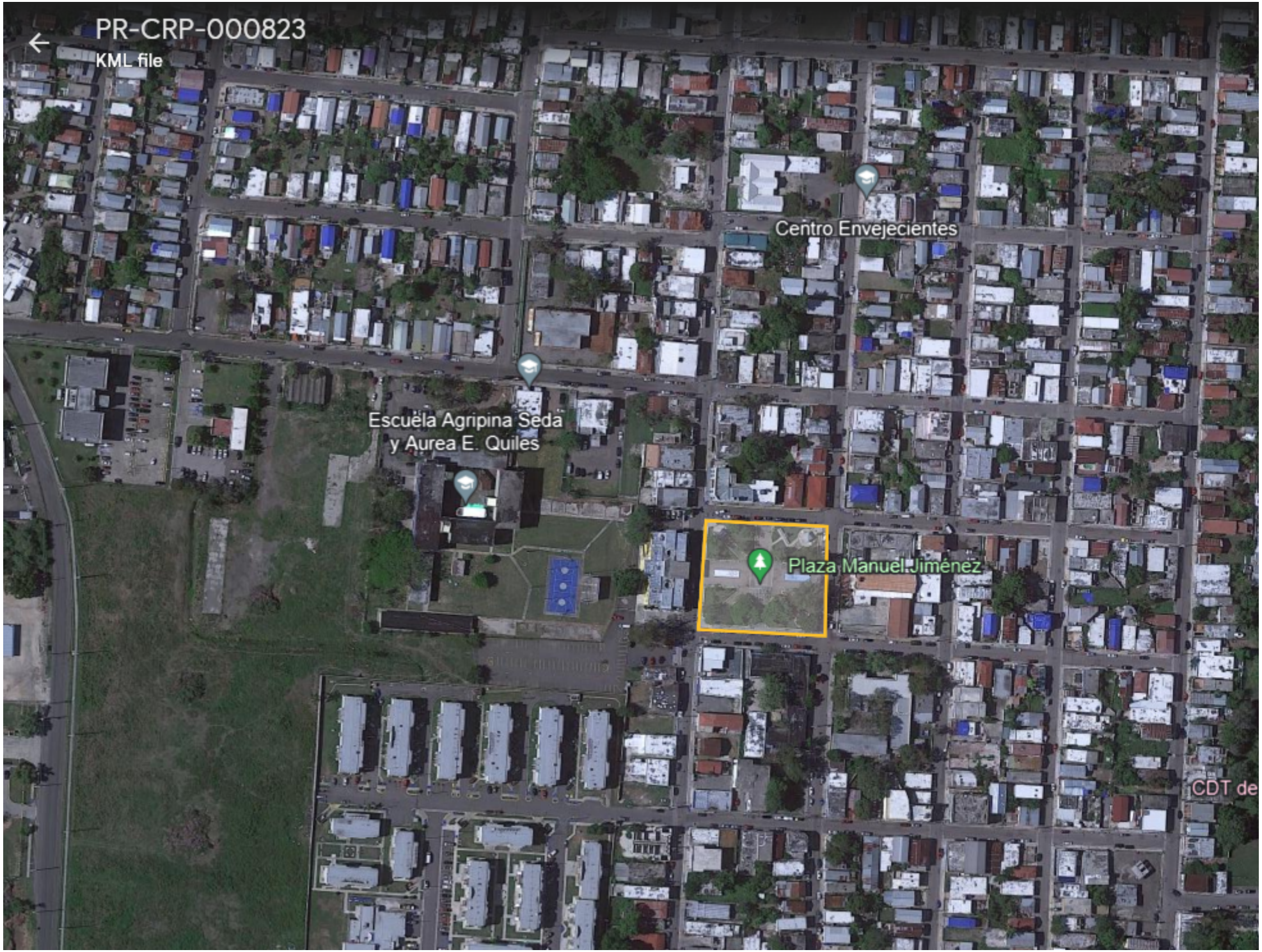
A final notice was published on January 26, 2024 at a local newspaper "El Vocero" detailing the reasons why the modified project must be located in the floodplain, a list of alternatives considered, and all mitigation measures taken to minimize adverse impacts and preserve natural and beneficial floodplain values. No concerns were expressed by the public concerning this notice.

Step 8: Implement the Proposed Action

The PRDOH will assure that this plan, as modified and described above, is executed and necessary language will be included in all agreements with participating parties. The city will also take an active role in monitoring the construction process to ensure no unnecessary impacts occur nor unnecessary risks are taken. Implementation of the Proposed Action will require additional local and state permits, which may place additional design modifications or mitigation requirements on the Proposed Action. It is acknowledged there is a continuing responsibility by the responsible entity to ensure, to the extent feasible and necessary, compliance with the steps herein.

Attachment 1

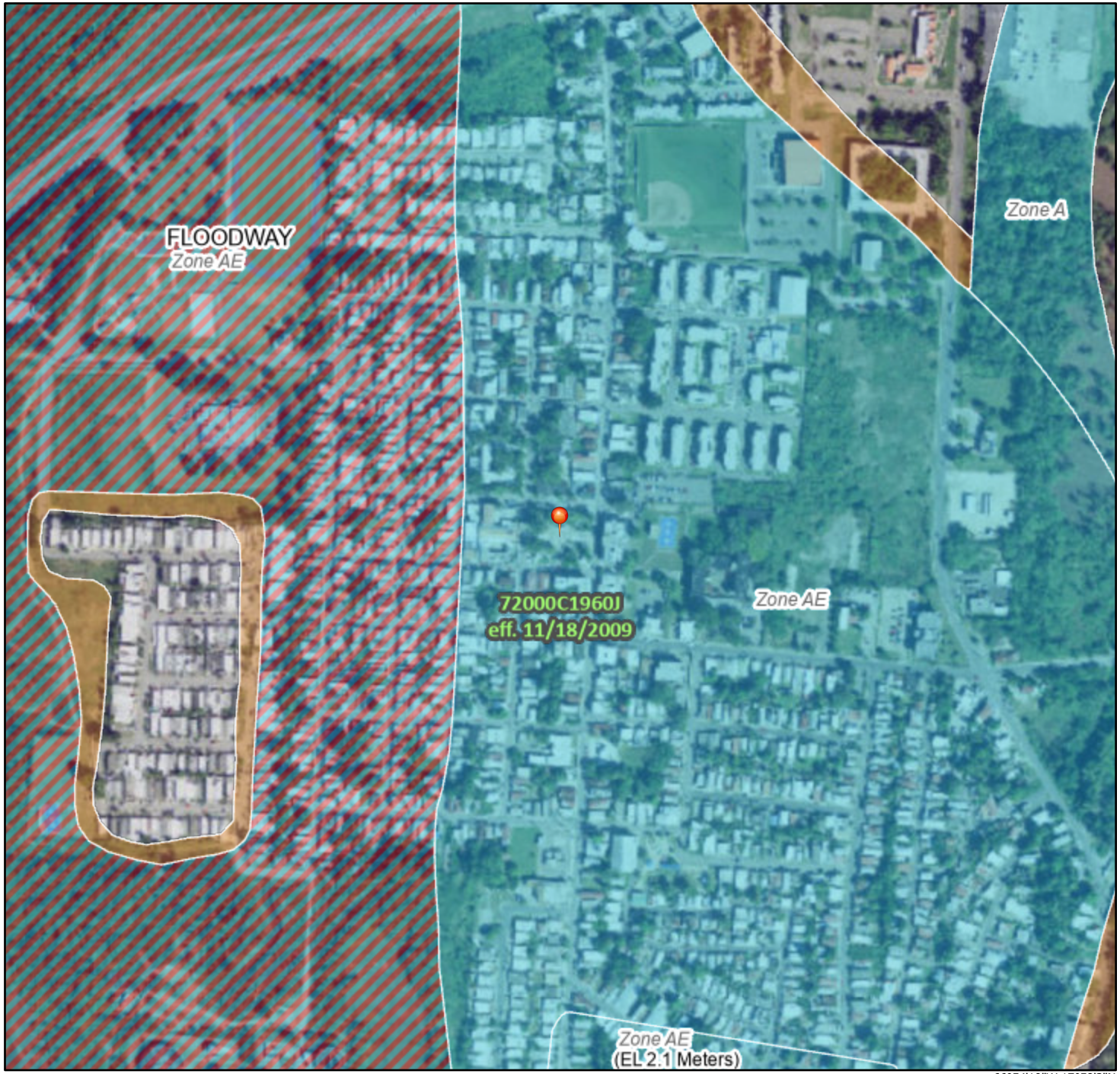
Maps


PR-CRP-000823
KML file
Centro Envejecientes
Escuela Agripina Seda
y Aurea E. Quiles
Plaza Manuel Jiménez
CDT de

National Flood Hazard Layer FIRMette

FEMA

66°54'47"W 17°58'38"N



66°54'10"W 17°58'3"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

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

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

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/31/2022 at 6:38 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.

PR-CRP-000823



11/13/2023, 6:00:52 PM

1:4,514

0 0.04 0.07 0.14 mi

0 0.05 0.1 0.2 km

Zone/BFE Boundary

Flood Hazard Extent

1% Annual Chance Flood

0.2% Annual Chance Flood

Limit of Moderate Wave Action (LiMWA)

Flood Hazard Area (zoom in to make visible)

A

AO

AE

Coastal A Zone

VE

0.2% Annual Chance Flood Zone

A-Floodway

AE-Floodway

Coastal A Zone and Floodway

Streamline (zoom in to make visible)

FIRM Panels

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

ArcGIS Web AppBuilder

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

Attachment 2

Step 2 Early Notice and Public Review of a Proposed Activity in the 100-Year Floodplain

public notice

Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the PRDOH Community Development Block Grant – Disaster Recovery (CDBG-DR) City Revitalization Program, Grant number B-17-DM-72-0001& B-18-DP-72-0001, is located in the 100-year floodplain, and PRDOH will be identifying and evaluating practicable alternatives to locate the action in the floodplain and the potential impacts on the floodplain from the proposed action, as required by the Executive Order 11988, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa is within a municipality with structures damaged by Hurricanes Irma and Maria and is located on Ave 25 de Julio, municipality of Guánica, coordinates 17.972382, -66.907862. The proposed activity locates in flood zone AE with dimensions of 0.95 acres. Project area is shown in Flood Insurance Rate Map (FIRM) 72000C1960 suffix J, revised on November 18, 2009, as indicated on the Flood Map Service Center page in **https://msc.fema.gov/portal/home**.

The objective of the project is to remodel Manuel Jimenez Mesa Public Square. It is proposed to remodel and reconstruct the existing public square, including the reconfiguration and enhancement of green areas, the installation of urban furniture, installation of new energy efficient light fixtures as part of the re-greening initiatives, the installation of new playground/exercise features. Also, the project will include the reconfiguration and enhancement of paved areas, ramps, and pedestrian crossing areas. We will have the relocation of existing commemorative features to improve and organize the new space. The objective of the project is to provide a gathering area for community-related activities and enhance re-population patterns. There will not be new construction on previously undisturbed areas addressed by this notice.

There are three primary purposes for this notice. First, people who may be affected by activities in floodplains and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative sites outside of the floodplains, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about floodplains can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in floodplains, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before February 15, 2023. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Ave., Juan C. Cordero Building, Río Piedras, PR 00918-8461, Attention: Santa Ramírez Lebrón, Permit and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Ave., Juan C. Cordero Building, Río Piedras, PR 00918. The number to get information is (787) 274-2527 ext. 6654. In the alternative, comments may also be sent to PRDOH by email at **infoCDBG@vivienda.pr.gov**.

Date: January 30, 2023

DEPARTMENT OF HOUSING

aviso público

Aviso y Revisión Pública Preliminar de una Actividad Propuesta en Terrenos Inundables de 100 años

A: Todas las partes, grupos y personas interesadas

Este aviso notifica que el Departamento de Vivienda de Puerto Rico (Vivienda, en adelante) ha determinado que la siguiente acción propuesta bajo el Programa de Revitalización de la Ciudad (City-Rev), Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), número B-17-DM-72-0001 y B-18-DP-72-0001, está ubicado en terreno inundable. Vivienda estará evaluando e identificando alternativas prácticas para realizar la acción propuesta y el impacto potencial en los terrenos inundables debido a la acción propuesta, según establecido por la Orden Ejecutiva 11988, de acuerdo con las regulaciones de HUD en 24 CFR 55.20 Subparte C - Procedimientos para tomar determinaciones sobre el manejo de terrenos inundables y protección de humedales. El proyecto propuesto, PR-CRP-000823 Remodelación de la Plaza Pública Manuel Jiménez Mesa ubica en un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en Ave 25 de Julio, municipio de Guánica, coordenadas 17.972382, -66.907862. La actividad propuesta se ubica en zona de inundación AE con cabida de 0.95 acres. El área del proyecto se encuentra en el Flood Insurance Rate Map (FIRM) 72000C1960 sufijo J revisado el 18 de noviembre de 2009, según indicado en la página del Centro de Servicios de Mapas de Inundaciones en **https://msc.fema.gov/portal/home**.

El objetivo del proyecto es la remodelación de la Plaza Pública Manuel Jiménez Mesa. El proyecto consiste en el proceso de remodelación y reconstrucción de la plaza pública existente, incluye la reconfiguración y mejora de áreas verdes, la instalación de mobiliario urbano, instalación de nuevos artefactos de iluminación de bajo consumo como parte de las iniciativas de reverdecimiento, la instalación de nuevas características de juegos/ejercicios. Además, el proyecto incluirá la reconfiguración y mejoramiento de áreas pavimentadas, rampas y zonas de pasos de peatones. Tendremos la reubicación de las características conmemorativas existentes para mejorar y organizar el nuevo espacio. El objetivo del proyecto es proporcionar un área de reunión para actividades relacionadas con la comunidad y mejorar los patrones de repoblación. No habrá nuevas construcciones en zonas previamente inalteradas.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en los terrenos inundables y aquellos que tengan interés en la protección del ambiente natural deben tener la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer ubicaciones alternas fuera de los terrenos inundables, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información sobre los terrenos inundables puede facilitar y mejorar los esfuerzos federales por reducir los riesgos e impactos asociados con la ocupación y alteración de estas zonas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en los terrenos indudables, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 15 de febrero de 2023. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, Edificio Juan C. Cordero, 606 Avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Santa Ramírez Lebrón, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 am a 4:00 pm en el Departamento de la Vivienda de Puerto Rico, Edificio Juan C. Cordero, 606 Avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787) 274-2527 ext. 6654. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a **infoCDBG@vivienda.pr.gov**.

Fecha: 30 de enero de 2023

DEPARTAMENTO DE LA VIVIENDA

pressreader PRINTED AND DISTRIBUTED BY PRESSREADER PressReader.com +1 604 278 4604 COPYRIGHT AND PROTECTED BY APPLICABLE LAW

Attachment 3

Step 7 Final Notice and Public Review of a Proposed Activity in the 100-Year Floodplain

del Honorable Juez Juan S. Nevárez García, Juez del Tribunal de Primera Instancia, Sala de Bayamón, expido el presente Edicto, para su publicación en la forma dispuesta, bajo mi firma y sello oficial. En Toa Alta, Puerto Rico, hoy día 22 de diciembre de 2023. LCDA. LAURA I. SANTA SANCHEZ Secretaria Regional SECRETARIA POR: M. Bonilla, Sec Aux.

MR-19830 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE CAGUAS SALA SUPERIOR DE CAGUAS

SAUL SANTIAGO GONZALEZ Y OTROS
Demandante
v.
ANA DELIA DE JESUS MALDONADO Y OTROS
Demandado(a)

Caso Núm.: CG2022CV01258 (SALON 703) Sobre: USUCAPION LOIRA M. ACOSTA BAEZ LACOSTA@GLADLAWPR.COM RICARDO L. DIAZ SOTO DIAZSOTOLAW@GMAIL.COM NOTIFICACIÓN DE SENTENCIA POR EDICTO ENMENDADA (Nombre de las partes que se le notifican la sentencia por edicto) A:

DALE CHESTER BROWN

- 21 URB. VALLE BORINQUEN, GURABO PR 00778 EL SECRETARIO(A) que suscribe le notifica a usted que el 20 DE OCTUBRE DE 2023, este Tribunal ha dictado Sentencia, Sentencia Parcial o Resolución en este caso, que ha sido debidamente registrada y archivada en autos donde podrá usted enterarse detalladamente de los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la Isla de Puerto Rico, dentro de los 10 días siguientes a su notificación. Y, siendo o representando usted una parte en el procedimiento sujeta a los términos de la Sentencia, Sentencia Parcial o Resolución, de la cual puede establecerse recurso de revisión o apelación dentro del término de 30 días contados a partir de la publicación por edicto de esta notificación, dirijo a usted esta notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivada en los autos de este caso, con fecha de 22 de DICIEMBRE de 2023 Notas de la Secretaria: SE ENMIENDA LA NOTIFICACION, POR ORDEN DE LA JUEZ EVYANNE MARTIR HERNANDEZ En CAGUAS, Puerto Rico, el 22 de DICIEMBRE de 2023 LISILDA MARTINEZ AGOSTO Nombre del (de la) Secretario(a) f/ENEIDA ARROYO VELEZ Nombre y Firma del (de la) Secretario(a) Auxiliar del Tribunal

---

MR-19810 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE BAYAMÓN SALA SUPERIOR DE BAYAMÓN

BRUNILDA MERCEDES ANDUJAR MARRERO Y OTROS
Demandante
v.

CHRISTIAN JOEL MALDONADO BAYON
Demandado(a)

Caso Núm.: BY2023CV04675 (SALON 702) Sobre: DIVISIÓN O LIQUIDACIÓN DE LA COMUNIDAD DE BIENES HEREDITARIOS RAFAEL H. ROMÁN JIMÉNEZ RAFAROMANJ@GMAIL.COM NOTIFICACIÓN DE SENTENCIA POR EDICTO (Nombre de las partes que se le notifican la sentencia por edicto) A: CHRISTIAN JOEL MALDONADO BAYON EL SECRETARIO(A) que suscribe le notifica a usted que el 21 DE DICIEMBRE DE 2023, este Tribunal ha dictado Sentencia, Sentencia Parcial o Resolución en este caso, que ha sido debidamente registrada y archivada en autos donde podrá usted enterarse detalladamente de los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la Isla de Puerto Rico, dentro de los 10 días siguientes a su notificación. Y, siendo o representando usted una parte en el procedimiento sujeta a los términos de la Sentencia, Sentencia Parcial o Resolución, de la cual puede establecerse recurso de revisión o apelación dentro del término de 30 días contados a partir de la publicación por edicto de esta notificación, dirijo a usted esta notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivada en los autos de este caso, con fecha de 22 de DICIEMBRE de 2023 En BAYAMÓN, Puerto Rico, el 22 de DICIEMBRE de 2023 LAURA I. SANTA SANCHEZ Nombre del (de la) Secretario(a)f/MIRCIENID GONZALEZ TORRES Nombre y Firma del (de la) Secretario(a) Auxiliar del Tribunal

---

MR-19845 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE AIBONITO SALA SUPERIOR DE COMERÍO

COOPERATIVA DE AHORRO Y CRÉDITO LA COMERIEÑA
Demandante
v.

FULANO DE TAL Y OTROS
Demandado(a)

Caso Núm.: CR2023CV00374 (SALÓN 001) Sobre: CANCELACIÓN O RESTITUCIÓN DE PAGARÉ EXTRAVIADO DIANA ISIS DIAZ CRUZ DDIAZ@RMVLAW.NET VICTOR R. RODRIGUEZ FUENTES VRODRIGUEZ@RMVLAW.NET NOTIFICACIÓN DE SENTENCIA POR EDICTO (Nombre de las partes que se le notifican la sentencia por edicto) A: FULANO DE TAL Y SUTANO DE TAL COMO PORTADORES Y/O POSEEDORES DESCONOCIDOS. EL SECRETARIO(A) que suscribe le notifica a usted que el 21 DE DICIEMBRE DE 2023, este Tribunal ha dictado Sentencia, Sentencia Parcial o Resolución en este caso, que ha sido debidamente registrada y archivada en autos donde podrá usted enterarse detalladamente de los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la Isla de Puerto Rico, dentro de los 10 días siguientes a su notificación. Y, siendo o representando usted una parte en el procedimiento sujeta a los términos de la Sentencia, Sentencia Parcial o Resolución, de la cual puede establecerse recurso de revisión o apelación dentro del término de 30 días contados a partir de la publicación por edicto de esta notificación, dirijo a usted esta notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivada en los autos de este caso, con fecha de 22 de DICIEMBRE de 2023 En COMERÍO, Puerto Rico, el 22 de DICIEMBRE de 2023 MAYRA L. CABRERA GARCIA Nombre del (de la) Secretario(a) f/CARMEN APONTE FLORES Nombre y Firma del (de la) Secretario(a) Auxiliar del Tribunal

---

MR-19836 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE ARECIBO SALA SUPERIOR DE ARECIBO

ZAIDA ESTHER SOTO MEDINA Y OTROS
Demandante
v.

GIROD TRUST COMPANY INC. Y OTROS
Demandado(a)

Caso Núm.: AR2023CV01920 (SALÓN 404 - CIVIL SUPERIOR) Sobre: CANCELACIÓN O RESTITUCIÓN DE PAGARÉ EXTRAVIADO ERICK M. QUINTANA ACEVEDO ERICKMANUELIJ@AOL.COM NOTIFICACIÓN DE SENTENCIA POR EDICTO (Nombre de las partes que se le notifican la sentencia por edicto) A: GIROD TRUST COMPANY INC., FULANO DE TAL Y/O POSIBLES TENEDORES DESCONOCIDOS EL SECRETARIO(A) que suscribe le notifica a usted que el 22 DE DICIEMBRE DE 2023, este Tribunal ha dictado Sentencia, Sentencia Parcial o Resolución en este caso, que ha sido debidamente registrada y archivada en autos donde podrá usted enterarse detalladamente de los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la Isla de Puerto Rico, dentro de los 10 días siguientes a su notificación. Y, siendo o representando usted una parte en el procedimi-

---

aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un Valle Inundable de 100 Años

Remodelación de la Plaza Pública Manuel Jiménez Mesa
PR-CRP-000823

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda) completó una evaluación según establece la Orden Ejecutiva 11988, de acuerdo con los reglamentos de HUD en 24 CFR 55.20 Subparte C - Procedimientos para Hacer Determinaciones sobre el Manejo del Valle Inundable y la Protección de Humedales. La actividad está subvencionada con fondos del Programa de Revitalización de la Ciudad, Subvención en Bloque para el Desarrollo Comunitario – Recuperación ante Desastres (CDBG-DR), números de subvención B-17-DM-72-0001 y B-18-DP-72-0001. El proyecto propuesto, **PR-CRP-000823**, está localizado en la avenida 25 de Julio, Guánica, PR 00653; coordenadas 17.972382, -66.907862. El proyecto consiste en el proceso de remodelación y reconstrucción de la plaza pública existente. Esto incluye la reconfiguración y mejora de áreas verdes, la instalación de mobiliario urbano, instalación de nuevos artefactos de iluminación de bajo consumo energético como parte de las iniciativas de reverdecimiento y la instalación de nuevas instalaciones de juegos/ejercicios. Además, el proyecto incluirá la reconfiguración y mejoramiento de áreas pavimentadas, rampas y zonas de paso de peatones. Se reubicarán las figuras conmemorativas existentes para mejorar y organizar el nuevo espacio. El objetivo del proyecto es proporcionar un área de reunión para actividades relacionadas con la comunidad y mejorar los patrones de repoblación. No habrá nuevas construcciones en zonas previamente inalteradas. La actividad propuesta está situada en una zona de inundación A con cabida de 0.95 acres. El área del proyecto se encuentra en el mapa de tarifas de seguro contra inundaciones (FIRM, por sus siglas en inglés) (panel 72000C1960J, efectivo 18/11/2009), como se indica en el Centro de Servicios de Mapas de Inundaciones de FEMA en https://msc.fema.gov/portal/home.

Vivienda ha considerado las siguientes alternativas y medidas de mitigación que se tomarán para minimizar los impactos adversos y restaurar y preservar los valores naturales y beneficiosos: (1) ubicar el proyecto dentro del valle inundable de acuerdo con la zonificación, (2) ubicar el proyecto fuera del valle inundable y (3) no tomar ninguna acción. La alternativa 1 se considera una opción viable que no tiene impacto en el valle inundable, al incorporar principalmente espacios verdes abiertos, y mantendrá el uso actual del área, necesaria para los residentes de la comunidad. El proponente considera que el proyecto no tendrá un impacto significativo en el comportamiento del agua de escorrentía durante eventos climáticos. Las alternativas 2 y 3 no son factibles, ya que las mejoras necesarias para la revitalización, restauración y construcción del centro urbano son específicas del sitio. La acción propuesta debe ubicarse en el valle inundable teniendo en cuenta los siguientes aspectos: la necesidad de proporcionar espacios abiertos recreativos para los residentes de la comunidad, mejorar las opciones recreativas al aire libre para los residentes de la comunidad y la capacidad de mitigar y minimizar los impactos en la salud humana, la propiedad pública y los valores del valle inundable. El pueblo de Puerto Rico y el Municipio de Guánica son los propietarios del sitio propuesto para el proyecto; no se incurrirá en ningún costo adicional por concepto de adquisición de tierras ni será necesario resolver problemas de propiedad. Tendrá impactos adversos mínimos en las funciones y valores del valle inundable, mejorará las condiciones del sitio existente y la infraestructura, y ayudará a prevenir un mayor deterioro del sitio. Si no se toman medidas, no se implementarán las mejoras propuestas y no se mejorará la facilidad pública existente. El uso propuesto está en armonía con el área de desarrollo circundante.

Vivienda reevaluó las alternativas para construir en el valle inundable y determinó que no cuenta con alternativas prácticas. La documentación ambiental que evidencia el cumplimiento de los pasos 3 a 6 de la Orden Ejecutiva 11988, está disponible para inspección, revisión y reproducción de parte del público, de ser solicitado, en el horario y lugar indicados en el último párrafo, sobre recibo de comentarios, de este aviso.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el valle inundable y aquellos que tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser una importante herramienta de educación pública. La divulgación de información y solicitud de comentarios sobre el valle inundable puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el valle inundable, debe informárselo a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 5 de enero de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461, Atención: Ivelisse Lorenzo-Torres, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 a. m. a 4:00 p. m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787) 274-2527, ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a environmentcdbg@vivienda.pr.gov.

Fecha: 28 de diciembre de 2023

Lcdo. William O. Rodríguez Rodríguez
Secretario del Departamento de la Vivienda

DEPARTAMENTO DE LA VIVIENDA

---

public notice

Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain

Remodeling of the Manuel Jiménez Mesa Public Square
PR-CRP-000823

To: All Interested Parties, Groups, and Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by Executive Order 11988, in accordance with HUD regulations set forth in 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the Community Development Block Grant – Disaster Recovery (CDBG-DR), City Revitalization Program, grant numbers B-17-DM-72-0001 and B-18-DP-72-0001. The proposed project, **PR-CRP-000823**, is located on 25 de Julio Avenue, Guánica, PR 00653; coordinates 17.972382, -66.907862. The project consists in the remodeling and reconstruction of the existing public square. This includes the reconfiguration and enhancement of green areas, the installation of urban furniture, installation of new energy efficient light fixtures as part of the re-greening initiatives, and the installation of new playground/exercise features. Also, the project will include the reconfiguration and enhancement of paved areas, ramps, and pedestrian crossing areas. Existing commemorative figures will be relocated to improve and organize the new space. The objective of the project is to provide a gathering area for community-related activities and enhance re-population patterns. There will be no new construction in previously undisturbed areas. The proposed activity is located in a flood zone A with dimensions of 0.95 acres. The floodplains in the project area can be found in the Flood Insurance Rate Map (FIRM) (panel 72000C1960J, effective 11/18/2009), as stated on the FEMA Flood Map Service Center in https://msc.fema.gov/portal/home.

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1) locating the project within the floodplain according to zoning, (2) locating the project outside of the floodplain, and (3) taking no action. Alternative 1 is considered a viable option by having no impact to the floodplain by incorporating mostly green open spaces and maintaining the present use of the area necessary for community residents. The proponent considers that the project will not have a significant impact on the current runoff water behavior during weather events. Alternatives 2 and 3 are not feasible, since the needed improvements for revitalization, restoration, and construction of the urban center are site-specific. The proposed project must be located in the floodplain by considering the following aspects: the need to provide recreational open spaces for the residents of the community, the enhancement of current outdoor recreational options for the residents of the community, and the ability to mitigate and minimize impacts on human health, public property, and floodplain values. The people of Puerto Rico and the Municipality of Guánica are the owners of the proposed project site; no additional cost due to land acquisition will be incurred upon nor will ownership issues needed to be solved. It will have minimal adverse impacts on the floodplain functions and values, it will improve the existing site's conditions and infrastructure, and it will help to prevent further deterioration of the site. If no action is taken, the proposed improvements will not be implemented, and the recreative facility will not be enhanced. The proposed use is in harmony with the surrounding development area.

PRDOH has reevaluated the alternatives to building in the floodplain and has determined that it has no practicable alternative. Environmental files that document compliance with steps 3 through 6 of Executive Order 11988 are available for public inspection, reviewing, and copying upon request at the times and location delineated in the last paragraph of this notice on receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in the floodplain and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about the floodplain can facilitate and enhance federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in the floodplain, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before January 5, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461, Attention: Ivelisse Lorenzo-Torres, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 a. m. to 4:00 p. m. at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787) 274-2527, ext. 4320. In the alternative, comments may also be sent to PRDOH by email to environmentcdbg@vivienda.pr.gov.

Date: December 28, 2023

William O. Rodríguez Rodríguez, Esq.
Secretary of the Department of Housing

DEPARTMENT OF HOUSING

Andrea Curbelo-Marty

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Thursday, December 28, 2023 12:45 PM
To: Jose.A.CedenoMaldonado@hud.gov; Mahon, Donna M; Caribbean_es@fws.gov; Edwin_muniz@fws.gov; Rodriguez.elias@epa.gov; Guerrero.carmen@epa.gov; PublicMail.CESAJ-CC@usace.army.mil; Rich.Okulski@noaa.gov; Noah.Silverman@noaa.gov; nmfs.ser.esa.consultations@noaa.gov; FEMA-R4EHP@fema.dhs.gov; carubio@prshpo.pr.gov; comunicaciones@ddec.pr.gov; secretario@ddec.pr.gov; jannira.colon@ddec.pr.gov; Rivera_r1 @jp.pr.gov; comentarios@jp.pr.gov; pmzc@drna.pr.gov; eortega@drna.pr.gov; ayudaciudadano@drna.pr.gov; anais.rodriguez@drna.pr.gov
Subject: Public Notice – Final Notice and Public Explanation of a Proposed Activity in the 100-Year Floodplain_PRDOH Case PR-CRP-000823
Attachments: Final Notice_El Vocero_PR-CRP-000823.pdf

Concerned agencies,

Enclosed please find a **Public Notice – Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain** the Puerto Rico Department of Housing (as the Responsible Entity) published as part of HUD's requirements for the release of CDBG-DR funds to undertake the project *Remodelación de la Plaza Pública Manuel Jiménez Mesa* (PR-CRP-000823). The Final Notice was published in the *El Vocero* newspaper of Puerto Rico on December 28, 2023.

Respectfully,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527
Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA VIVIENDA

NOTA DE CONFIDENCIALIDAD: Esta transmisión electrónica contiene información perteneciente al Departamento de Vivienda de Puerto Rico, la cual es confidencial y / o privilegiada legalmente. Si usted no es el destinatario previsto, informe inmediatamente al remitente por correo electrónico de respuesta o por teléfono que este mensaje se le ha transmitido inadvertidamente y elimine este correo electrónico de su sistema. Si ha recibido esta transmisión por error, por la presente se le notifica que cualquier divulgación, copia, distribución o cualquier acción basada en el contenido de la información está estrictamente prohibida. El uso, difusión, distribución o reproducción no autorizados de este mensaje por personas que no sean el destinatario previsto está estrictamente prohibido y puede ser ilegal.

CONFIDENTIALITY NOTE: This electronic transmission contains information belonging to the Puerto Rico Housing Deparment, which is confidential and/or legally privileged. If you are not the intended recipient, please immediately advise the sender by reply e-mail or telephone that this message has been inadvertently transmitted to you and delete this e-mail from your system. If you have received this transmission in error, you are hereby notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of the information is strictly prohibited. Unauthorized use, dissemination, distribution or reproduction of this message by other than the intended recipient is strictly prohibited and may be unlawful. 2

January 8, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: environmentcdbg@vivienda.pr.gov, for the project *Remodelación de la Plaza Pública Manuel Jiménez Mesa* (PR-CRP-000823), as part of the CDBG-DR City Revitalization Program. The Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain was published in the *El Vocero* newspaper of Puerto Rico on December 28, 2023, with a comment period that concluded on January 5, 2024.

Cordially,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Appendix K: Section 106 Compliance Report / NHPA Effect Determination Form /Monitory Archeological Work Plan the Acceptance Letter.

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

Wednesday, December 18, 2024

Lauren B Poche

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

SHPO-CF-06-04-24-13 PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Dear Ms. Poche,
Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended), 36 CFR Part 800: Protection of Historic Properties and the Programmatic Agreement executed in 2016, as amended.
After a review of all the additional documentation, the SHPO agrees with your finding that the proposed project will have no adverse effect upon historic properties, conditioned to the implementation of the archaeological monitoring plan, dated September 26, 2024, you included for our review.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

November 18, 2024

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

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

Re: SHPO-CF-06-04-24-13 - PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – Archaeology Monitoring Work Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated August 26, 2024, in response to the submission of documentation for PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa project. The letter stated that after the review of all documentation the Puerto Rico State Historic Preservation Office supported PRDOH's finding of no adverse effect for the proposed undertaking, based on the conditions proposed: Archaeological monitoring during all ground disturbing activities for the project, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Archaeological Monitoring and Protection Plan for the Remodelación de la Plaza Publica Juan Jiménez Mesa project (PR-CRP-000823/SHPO 06-04-24-13) prepared by Archaeologists Roberto G. Muñoz-Pando and Sharon Meléndez Ortiz. We are requesting your review of the prepared plan and concurrence that the implementation of the plan is appropriate for the undertaking.

Please contact me with any questions or concerns by email at lauren.poche@horne.com or phone at 225-405-7676.

Kindest regards,



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

PRDOH CDBG-DR CRP PROGRAM

Remodelación de la Plaza Pública Juan Jiménez Mesa en Guánica, Puerto Rico

PR-CRP-000823 / SHPO: PENDING/ CP-PAE: PENDING
OGPe: PENDING

Archaeological Monitoring and Protection Plan



Prepared by:

Roberto G. Muñoz-Pando, PhD
Archaeologist- **Tetra Tech, Inc.**
Sharon Meléndez Ortiz
Archaeologist – **Horne PR**

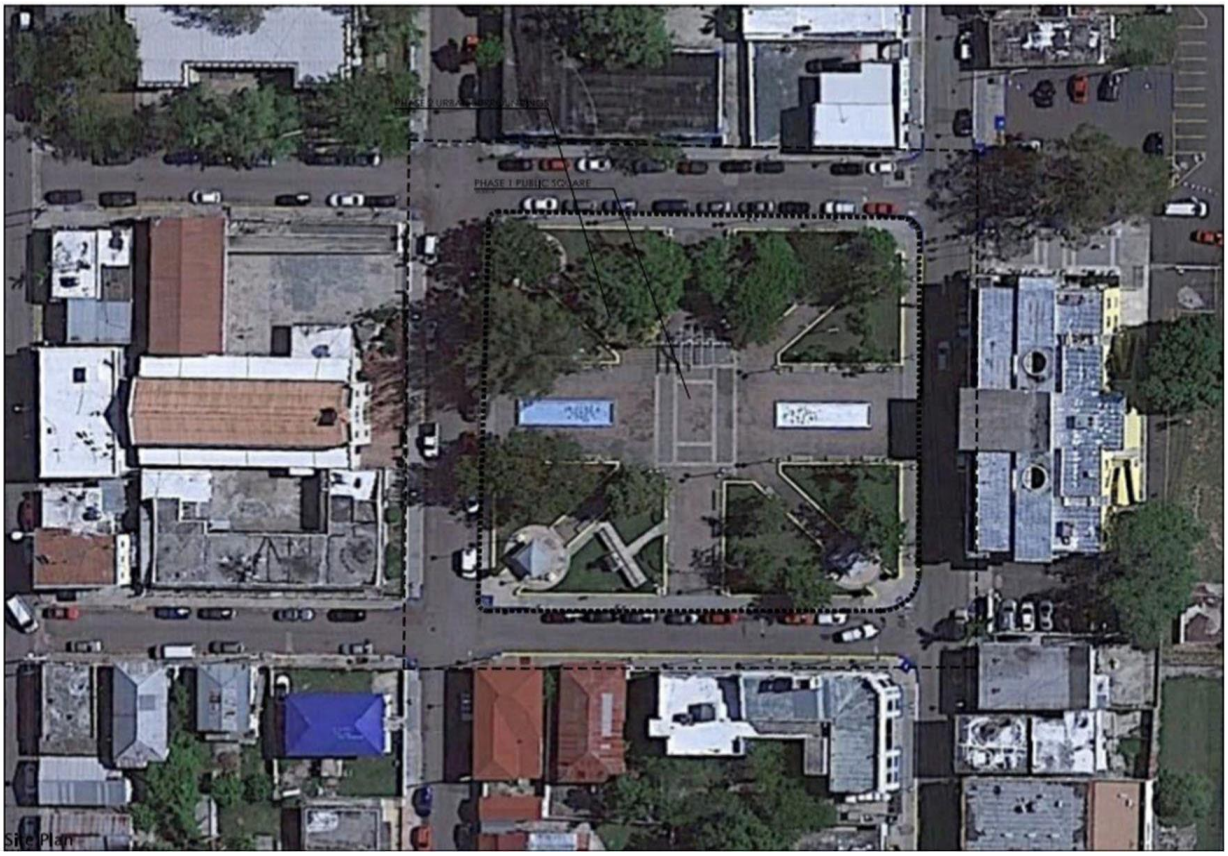
September 26, 2024

I. PREAMBLE

The Municipality of Guánica is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of San Sebastián for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The municipality proposes the revitalization and restoration of Guánnica's main plaza plaza (Figure 1).

Figure 1: Project Location in the Satellite Image

(from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 3)



The Puerto Rico State Historic Preservation Office (PRSHPO), is expected to concur with a finding of No Adverse Effect for this undertaking conditioned to the implementation of an archaeological monitoring plan for all new construction within the Municipality of Guánica, including the rehabilitation of the Plaza de Guánica and its reconstruction. The SHPO also indicated that "*care should be taken for vibration effects for the surrounding historic buildings to prevent damage during construction*." Coordination with The Archaeology and Ethnohistory Program (PAE) of the Institute of Puerto Rican Culture (ICP) of the archaeological supervision is ongoing.

The objectives of archaeological monitoring, according to ICPR Regulation #8932 are: (1) To locate, evaluate and document archaeological resources during project development; (2) To recover as much archaeological information and materials as possible during excavation and construction work; (3) To conserve and enhance the value of the archaeological resources located and documented; and (4) In the event that the archaeological resource cannot be conserved in situ, to conserve it through documentation.

Figure 2: Project Location in the Aerial Map with the direct APE delimitated in red
(from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 16)

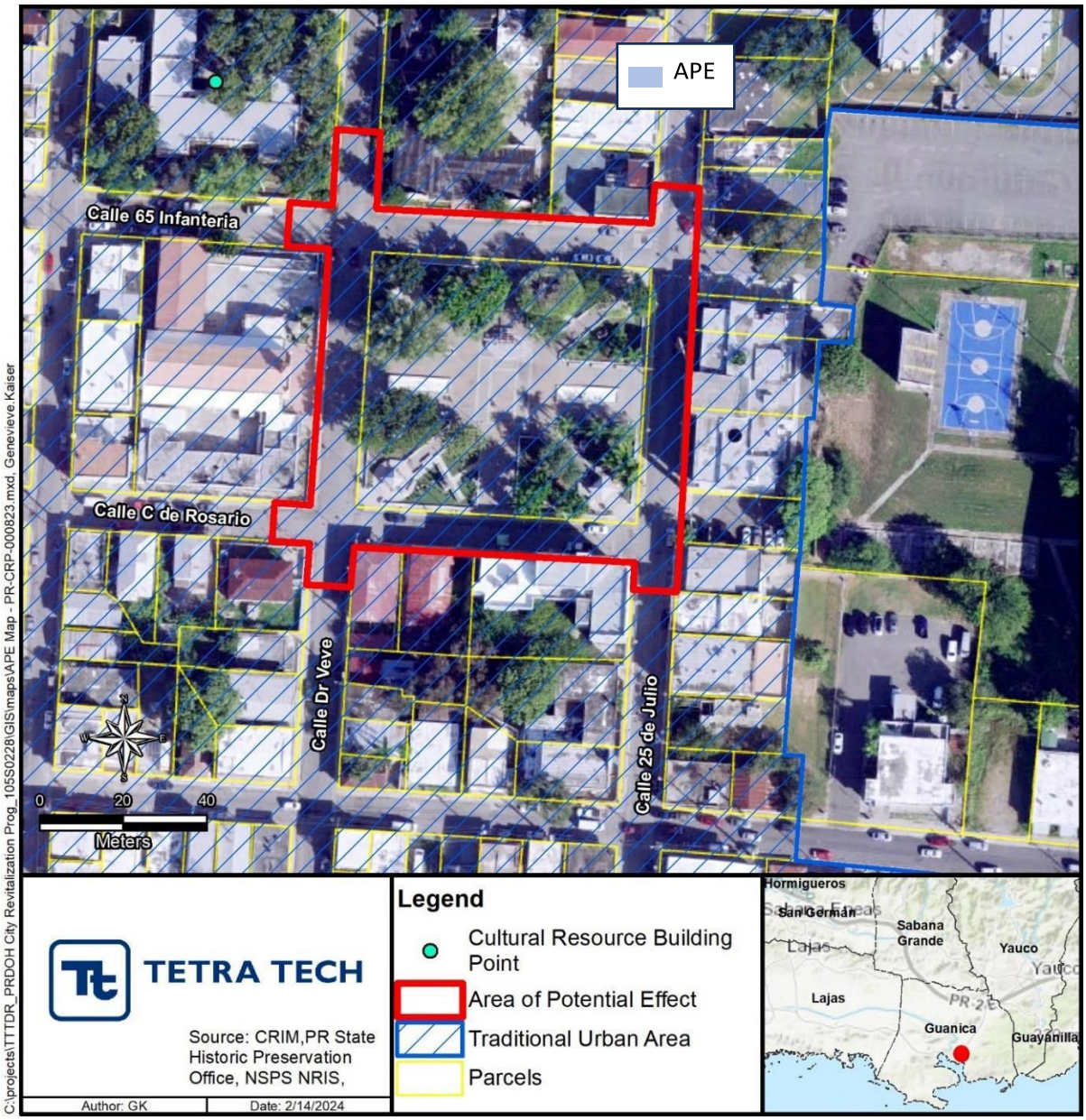
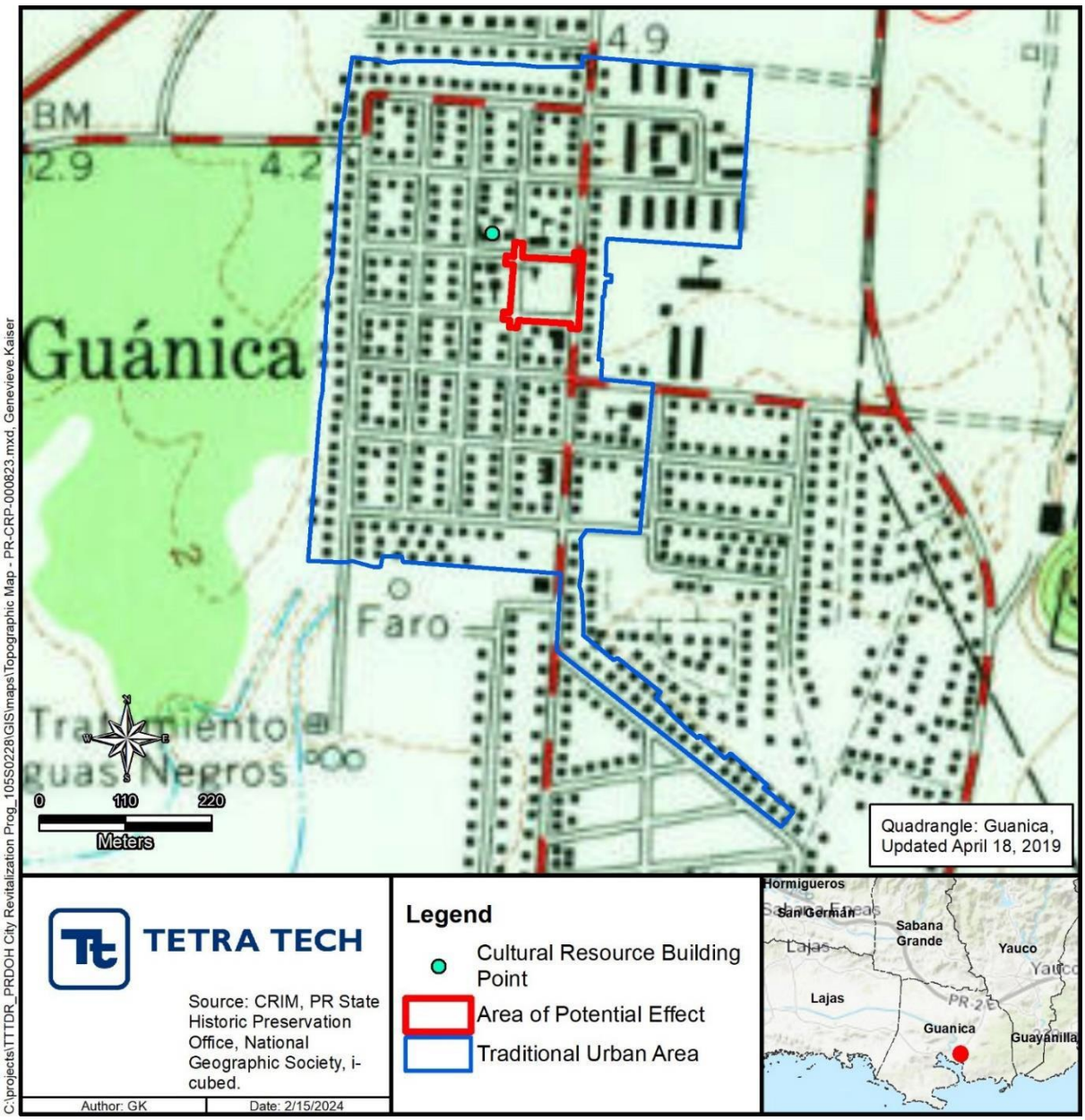


Figure 3: Project Parcel Location at the USGS Topographic Map with the direct APE delimitated in red (from Regis Martinez, Schmid, Rivera Calderón and Muñoz-Pando 2024: 18)



Other objectives of this archaeological monitoring plan are: (1) to establish the protocol to be followed in archaeological monitoring; (2) to establish the protocol to be followed if previously unknown resources are identified; (3) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (4) to establish the protocol for cleaning the culverts, (5) to establish the parameters for documentation and evaluation of the structures, and (6) to establish the consultation protocol to be followed in case the structures require major repairs.

This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, and Regulation #8932 of the Institute of Puerto Rican Culture (IPRC). The plan was prepared by archaeologists Roberto G. Muñoz-Pando and Sharon Meléndez Ortiz, who meet the Professional Qualifications Standards set forth in 36 CFR Part 61. Archaeologist Meléndez Ortiz is also listed as an archaeologist by the Council for the Protection of Earth Archaeological Heritage (Council) to conduct Phase I, Phase II, Phase III studies and Archaeological Monitoring of Projects.

This scope of work is divided into six (6) sections and one (1) appendix. The section following this preamble includes a brief description of the project area and discusses the proposed construction work. In the third section the archaeological potential of the project area is discussed. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan, and the last section includes the references cited. The plan closes with an appendix with a model of a monitoring daily activity sheet.

II. PROJECT DESCRIPTION

The proposed works are the remodeling of the existing plaza walkways, small structures, fountains, and gardens including the replacement of all existing light posts, benches and trash receptacles, reconstruction of two existent kiosks and the construction of a stage. Also, access will be improved so that people with physical disabilities can access the plaza and participate in activities aimed at this population. This project will reactivate the flow of people to the urban area. Finally, this project aims to improve the aesthetics of the urban center by building a modern square that in turn is integrated with the historic buildings that are around it.

The undertaking aims to provide an articulated urban space for gatherings, ceremonies & festivals. The remodeled plaza will offer new family-oriented urban amenities that will assist in reactivating the town center while creating an attraction for moving into the urban area. This Plaza was rebuilt in 2004 and then in 2016. However, it retains its original use, size & configuration as a plaza. All the new facilities and amenities now proposed are akin to those uses and the size of the plaza is also the same with slightly rectangular shape.

The following ground disturbing activities are proposed:

a. The project reconfigures green areas to add more vegetation and reforestation.
b. Paved areas are reconfigured to better interact with amenities and facilities of existing and proposed urban infrastructure.

c. New and additional street furniture to offer more recreational areas in shaded areas, including existing pieces/monuments for operation within the new configuration. As per the proposed road Improvements as per 90% plans on page AS01.
d. Lighting of public space is improved with modern and more efficient technology.
e. Ramps and crosswalks are improved in compliance with current laws and codes.
f. The original, orthogonal shape of the square is respected.
g. The new plaza furniture is proposed in line with the programming of uses and atmosphere proposed. The benches are made of durable material, located within covered or partially covered areas. Different pavements will be used to demarcate areas with defined uses and aesthetic results of great value, in complement to the urban furniture to be proposed. The same happens with lighting luminaires.
h. Existing kiosks to remain, sculptures of the Veterans Monument to be relocated within the square from the southwest corner of the plaza to the northeast corner per the 90% plans. Concrete flooring, erected in 2016, to be removed. The sculptures and signage will require footings of 18-inches deep. No acoustic shells, platforms or stands are proposed in the project. Two garden pavilions with pergolas will be added to the plaza and they are centered on the north and south. The pergolas will require footings of 2-feet deep.
i. Vegetation: Trees, shrubs, and flowers define zones within the space of the square; therefore, the landscape treatment must retain height and leafiness of the trees in close proportion between the surrounding buildings and their height at which it will not be greater than a four-story building. They will be oriented in such a way that a cone of shade is obtained that protects the rest areas. The addition of three-foot hedge systems will prevent the destruction of meadows/flowers that are to be planted.
j. The estimated depths of ground disturbance are approximately 2 feet, and the utilities will be located near where previous ground disturbance has been already located.

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 as on this definition and the nature and scope of the Undertaking, the Program has determined that the Plaza is 0.933227acres or 40,651.36 square feet and the direct APE which also includes the viewshed of the proposed project, is defined by the surrounding streets and corners and up to the facades of the buildings on the opposite streets for a total of 1.74 acres or 1,102.80 square meters.

The Municipal Plaza Juan Jiménez Mesa is located at 17.972382; -66.907862, on 25 de Julio Street (State Road PR-332) Municipality of Guánica, PR. Like most public squares, it is surrounded by mostly institutional buildings. To the East the New City Hall, built around 2006, faces plaza across 25 de Julio Street (heavily damaged during 2020 earthquake cluster event, to be demolished). To the South the Old City Hall building (built in 1921, currently used as a museum) is on the corner of 25 de Julio & Del Rosario streets, while early 20th century concrete and wood private residences complete the block up to the corner of Dr. Veve street. To the West Colegio Beata Imelda catholic school (built in 1955) & Antonio Abad parish church (built in reinforced concrete in 1953, in same location of timber & mortar

church was ca. 1910) completes the block along Dr. Veve street. At the northwestern corner of 65 de Infantería & Dr. Veve streets the NRHP-listed James Garfield Graded School (built in1903 with an addition in 1926) is located. To the North the María Luis McDougall elementary school (built ca. 1925) & the Dr. Nestor Frontera Tacoronte building (an early 20th century masonry structure converted into medical offices) faces plaza along 65 de Infantería Street.

This type of project could impact the area during its progress, through possible sedimentation of existing rainwater systems, emission of fugitive dust, temporary interruptions of both vehicular and pedestrian traffic, as well as temporary inaccessibility to parking areas along the right-of-way. To this end, coordination will be carried out with the Municipality of Guánica, its municipal police force, and other government agencies with jurisdiction over the project to establish a mitigation plan for controlling fugitive dust and sedimentation to the existing rainwater system, as well as a temporary coordination plan for vehicular and pedestrian traffic.

Undertaking is the direct APE (plaza)and is demarcated by North 65 de Infantería Street to the north, 25 de Julio (PR-332) Street to the east, Del Rosario Street to the south, and Dr. Veve Street to the west. The Lambert coordinates in the NAD83 system of the property are X=149737.0523, Y=215455.1267 (LAT 17.97238227 LON -66.90786221). The depths of ground disturbance in the APE are approximately 2 feet.

The Plaza is 210'-0" (64 meters) on east-west direction by 195-0" (59.5 meters) on north- south direction with an approximate surface area of 40,990 square feet (3,809 square meters), while direct APE is 275'- 0" (83.8 meters) on east-west direction by 256-0" (78 meters) on north-south direction with an approximate surface area of 75,570 square feet (7,023 square meters). The streets measurements including both sidewalks to the plaza are 45 feet wide x 518 feet long on 65 de Infantería Street, 30 feet wide x 480 feet long at Del Rosario Street, 42 feet x 328 feet long at Dr. Veve Street, and 30 feet x 298 feet long at 25 de Julio (PR-332) Street.

The Indirect APE includes the opposite street facades around the Plaza and the corner street facades as shown on the Area of Potential Effect aerial map. Located inside the Guánica Traditional Urban Center, the plaza space itself is NRHP-eligible. The types of properties that surround the Plaza are commercial, residential, government offices such as Municipal Hall on the west side, entertainment buildings such as the Pedro Juan Vargas Museum to the south, and an elementary school building to the north. The properties are mainly one- or two-story buildings made of concrete, masonry, or Wood frame with either concrete roofs or corrugated metal roofs that date from the late Nineteenth Century to mid Twentieth Century.

III. ARCHAEOLOGICAL POTENTIAL AND HISTORIC PROPERTIES

The information below is taken from the Section 106 NHPA Effect Determination Form completed by architect Heidi J. Dillan and archaeologist Federico L. Freytes in 2023.

The municipality of Guánica has four properties listed in the National Register of Historic Places: Yauco Battlefield, Guánica Lighthouse, Santa Rita Hacienda, and James Garfield School. These sites are intimately related to the municipality's foundation, the development of the 19th-century sugar

industry, and the arrival of USA troops in 1898. One of them, the James Garfield School is 0.03 miles north of the APE. Twenty-five precolonial and historic sites have been identified within the municipality. Fifteen sites contained both pre-Columbian and historic materials; the remaining ten are exclusively historic.

The Plaza Pública Juan Jiménez Mesa is a historic property eligible to the NRHP. The town plaza is associated with the development of the town and events that have made a significant contribution to the broad pattern of history. It is also a contributing urban space within the eligible historic Guánica Traditional Urban Center. The town square retains the scale, ambiance and street relation that reflects the tradition of the life of the Guánica town. The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

IV. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition and excavations. Those construction activities that do not entail excavations or earth movements do not require an archaeological monitor.

A. Before Construction Begins

1. The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor). The GM shall notify the SHPO and PAE of the construction start date and the archaeology company charged with implementing this Plan.

2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.

3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.

4. The Monitor will document the historic properties (NRHP-listed and eligible) located within

the project's area of potential effects by means of verbal descriptions and photographs. This documentation shall be included as an appendix to the first weekly report. This report will be submitted to the PAE with the first monthly report.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor. In the event of simultaneous excavations in different areas of the project, an archaeologist should be assigned to each area.

2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.

3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (Appendix A). These Forms will be attached to the final report as an appendix. These forms should be send weekly to the GM for review.

4. A monthly report will be prepared, including photos of the area of interest. The report shall be emailed to the GM during the week following the month in which the monitoring was conducted. The PRDOH or the GM on behalf of PRDOH will be responsible for submitting the report to the SHPO and the PAE.

5. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-8 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.

    a. The documentation may require extending the contractor excavations to expose and define the finds. Associated stratigraphy will be documented and representative samples of associated artifactual material will be recovered. For structural remains, construction materials and techniques will be documented. The controlled units may vary in size according to the nature and dimensions of the archaeological find. These will be excavated by strata, cultural or natural, with vertical and horizontal control. When warranted, the removed soil will be sifted through ¼ inch mesh. The recovered artifactual material will be bagged and labeled by specific origin. It shall proceed in accordance with the protocol included in item B-9.

6. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.

7. If the identified archaeological remains are considered historically significant– i.e., complex structures, precolonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the PAE, and the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:

    a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains (in other words, an evaluation of significance and integrity).

    b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.

    c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.

    d. The GM shall notify the SHPO and PAE of the NRHP-eligibility determination.

        i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and PAE and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO or PAE disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.

        ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and PAE, and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO or PAE makes a timely objection within 48 hours of the notification.

        iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a

Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm), the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance, and Regulation #8932. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO and PAE for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).

8. If architectural features are found, as far as possible, the finding should be preserved and protected, and every effort should be made to adapt the design of the project and avoid negative impact to the finding.

9. Processing of archaeological artifacts, if any, will be conducted concurrently with the field work. A summary of these activities shall be included in the monthly report. Artifacts shall be curated and processed in accordance with the standards set forth in 36 CFR Part 79 Curation of Federally- Owned and Administered Archaeological Collections.

    a. Artifacts shall be washed and sorted. Materials such as ceramics, lithics, shell, bone, glass, metal, and others, should be subject to general analysis considering aspects such as material, manufacture, style, function, type, variety, use, and others. Due to their nature, some of these materials require specialized analysis such as studies of malacology, zooarchaeology, bioarchaeology, among others, which should be carried out by specialists. The classification scheme used in the classification will be chosen by the archaeologist according to the context, type of material recovered and previous experience. The classification scheme shall be referenced with available bibliographic references.

    b. The materials laboratory shall include a quantitative, qualitative, and comparative analysis of all archaeological materials recovered during archaeological monitoring. An inventory of artifacts by category, and a catalog of artifacts by material type shall be prepared.

    c. Photographic documentation shall be made of representative artifacts in the collection.

    d. If necessary, documentary research will be conducted for analysis and interpretation of artifacts and other finds.

e. Samples from strata or from particular cultural elements must be properly packaged, labeled and preserved. The data resulting from their analysis must be included in the final report.

10. If any additional construction activities are added or design changes are made after the project has begun, the CM and PM, prior to performing the work, shall inform the GM and the Monitor. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO and PAE prior to implementation. The SHPO and PAE will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO and PAE has no objection and concurs with the recommendations outlined.

11. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM, and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO and PAE on the recommendations prior to implementation. The SHPO and PAE will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO and PAE has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.

2. The Monitor shall again document the historic properties located within the project's area of potential effects. The condition of the properties should be compared with those documented at the beginning of the project. This documentation shall be included in the final technical report.

3. The Monitor shall prepare an Archaeological Supervision End of Field Report, which shall include the main findings and their location, the methodology used for their excavation and documentation, conclusions on the effectiveness of the archaeological supervision, the integrity and importance of the archaeological resources discovered, meritorious protection aspects and clear recommendations as to the course of action to be followed. It should also include the date of delivery of the Final Report. This report will be delivered to the GM. The GM shall be responsible for submitting it to the SHPO and the PAE. The report shall be submitted to the GM no later than two (2) weeks after completing the archaeological monitoring work.

The GM shall submit the report to the SHPO and PAE no later than one (1) week after receiving it.

4. A Final Archaeological Monitoring Report shall be prepared and submitted by the date stipulated in the End of Field Report. This report shall include a description of the work performed, the construction activities that were archaeologically monitored, and documentation of unexpected finds, if any. It should also include final documentation of the condition of the properties along with a comparison of the final condition of the structures to the initial condition. The report shall comply with Article 10 Section 8 of Regulation #8932, which outlines the content and format it should have.

    a. If the Final Archaeological Monitoring Report cannot be delivered on the established date, an extension of time will be requested from the Council, indicating the reasons why the report cannot be delivered. The request for extension shall be submitted, to the extent possible, fifteen (15) working days prior to the established date. The Council shall reply within fifteen (15) working days, in accordance with the provisions of Article 10 Section 7 of Regulation #8932, setting a final deadline for the delivery of the report. The request for extension of time must be copied to the SHPO.

5. The Principal Investigator will be responsible for retaining his or her original field notes, digital photographs, expert reports, drawings, maps and any other digital photographs, expert reports, drawings, maps, and any other documents associated with the study conducted (including digital files) and shall ensure future reference by other researchers for future reference. If unable to keep these documents, the archaeologist shall deliver them to the PAE.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA and IPRC Regulation #8932, must be followed:

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO and PAE within twenty-four (24) hours of identifying human remains.
5. The services of a physical anthropologist or specialist in bioarchaeology will be required.

V. PROFESSIONAL QUALIFICATIONS

The Monitor must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties.

The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology. In the case of hiring archaeologists and trained technicians to assist in archaeological monitoring, the Principal Investigator must be present for at least 25 percent of the duration of the fieldwork to supervise them.

V. CITED REFERENCES

Advisory Council on Historic Preservation
2009 ACHP recommendations on the recovery of significant information from archaeological sites https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance.

Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico.
2017 *Reglamento para la radicación y evaluación arqueológica de proyectos de construcción y desarrollo.* San Juan: ICP. Reglamento #8932 del 8 de febrero de 2017.

National Park Service
s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines [As Amended and Annotated] Professional Qualification Standards". https://www.nps.gov/history/local-law/arch_stnds_9.htm

s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archeological Documentation". http://www.cr.nps.gov/local-law/arch_stnds_7.htm

Regis Martínez, Eduardo, María Schmid, Virginia Rivera Calderón, and Roberto Muñoz Pando
2024 Puerto Rico 2017 Disaster Recovery, CDBG- DR CRP Program. PR-CRP-000823 section 106 Form

APPENDIX A: MONITORING DAILY ACTIVITY SHEET

	PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM: PRDOH CITY REV PROGRAM ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	**Project Location** (Street Address):
City:	Project Coordinates:

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a
Work Hours:

Description of work performed by contractor and supervised by the Monitor:

	YES	NO
Was an archaeological remain documented during the day. If yes, include required information below.	☐	☐
Was an exceptional archaeological remain identified during the day? If yes, explain below.	☐	☐
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	☐	☐
Has there been a change in the scope of work of the project? If yes, explain below.	☐	☐

-1-

..

	PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM: PRDOH CITY REV PROGRAM ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location (Street Address):
City:	Project Coordinates:

Site Photos	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	
Direction of Photo: Click here to enter text. **Description:** Click here to enter text.	

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

Monday, August 26, 2024

Lauren B Poche

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

SHPO-CF-06-04-24-13 PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Dear Ms. Poche,
Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended), 36 CFR Part 800: Protection of Historic Properties and the Programmatic Agreement executed in 2016, as amended.
After a review of all the documentation, the SHPO agrees with your finding that the proposed project with the established conditions, will have no adverse effect upon historic properties:
1. Historic properties are located near the APE and its viewshed, but none will be adversely affected by the proposed project. Archaeological monitoring of any ground disturbing activities and excavations. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval of appropriateness for implementation.
Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela
State Historic Preservation Officer
CARC/GMO/ MDC

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

July 29, 2024

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

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

Re: SHPO-CF-06-04-24-13 - PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – Additional Information Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico PRDOH and the subrecipient, the Municipality of Guánica, we thank you for your email correspondence dated July 3, 2024. In that correspondence, the following information was requested in order for the SHPO to fulfill its legal responsibilities:

1. Project information:
    a) Schematic or preliminary drawings of the proposed general facades and sections, that show the proposed project design saved as a PDF file.

In response to your requested, we are providing the Proposed Architectural Details Drawing showing the proposed designs against the backgrounds of all four streets that border the public plaza. The drawings illustrate how the removal of the current stage in the center of the plaza (although offset to the north) will once again allow visitors to walk freely through the center of the plaza and will no longer obstruct the view of the Esceula Maria Luisa McDougall school to the north of the plaza. While new garden pavilions are proposed to be centered at the north and south entrances in to the pavilions, the provided drawings show that they will not be solid and still allow the visitors to see the buildings behind them. We are hopeful that these drawings and renderings assist the SHPO will fully assessing the proposed undertaking.

Please note that the east elevation section depicts the now-demolished 2007 city hall in the background; the city hall was present when the project was initiated but was demolished early summer 2023 due to structural damage from the 2020 earthquakes. Additionally, a new conceptual city hall (not part of the proposed projet) is depicted in the provided birds-eye conceptual rendering.

Based on the provided drawings, rendering, and Effect Determination Form, the Program has determined that the proposed undertaking will have **no adverse effect** to historic properties, **conditioned** to archaeological monitoring during ground-disturbing activities. If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval. We look forward to your response and feedback.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns you may have.

Kindest regards,



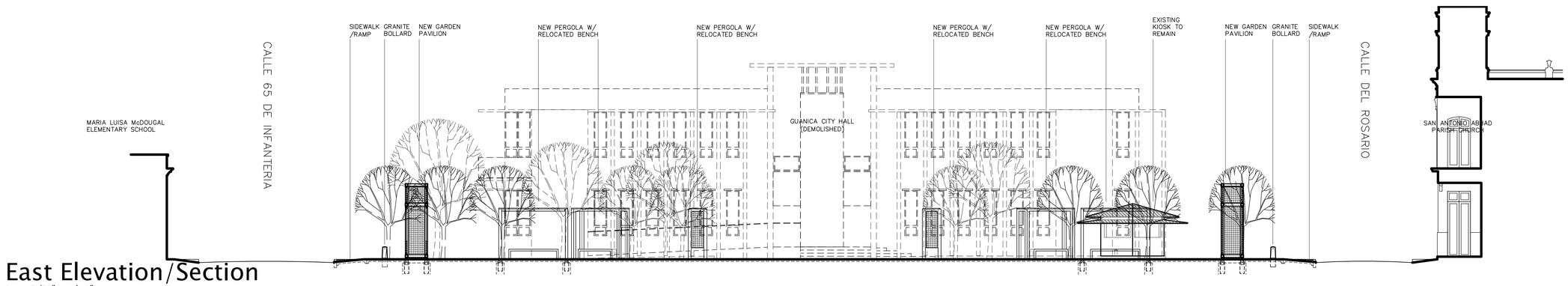
Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
Attachments

PR-CRP-000823

Remodelación de la Plaza Pública Manuel Jiménez Mesa Project

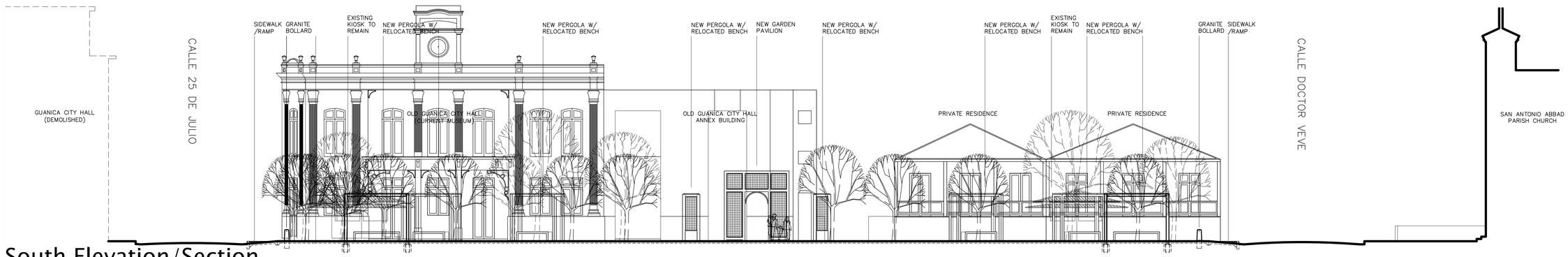
Guánica, Puerto Rico

Schematic Drawings with the Proposed Project Design against the Surrounding Blocks



East Elevation/Section

Scale 3/32" = 1'-0"



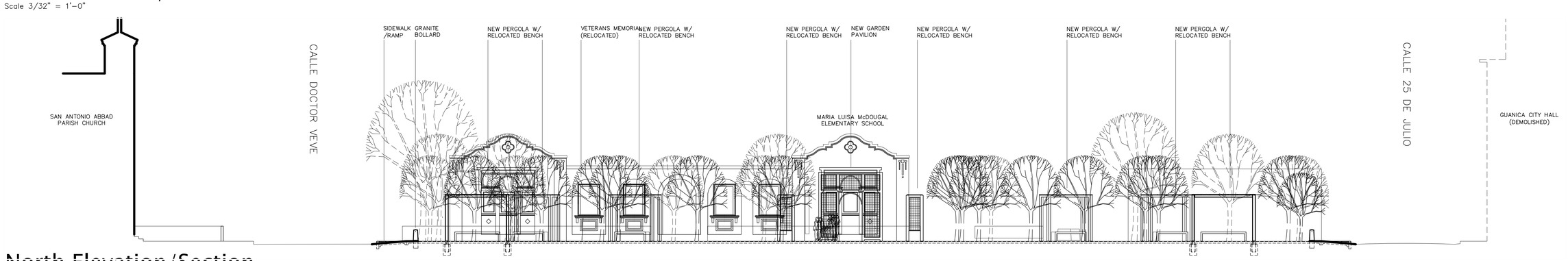
South Elevation/Section

Scale 3/32" = 1'-0"



West Elevation/Section

Scale 3/32" = 1'-0"



North Elevation/Section

Scale 3/32" = 1'-0"

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC, CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESAMENTE PRESCRIBEZ SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. REGIS MARTINEZ, LICENCIA NUMERO 12056, CERTIFICO QUE SOY EL PROFESIONAL QUE ORDENA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO O SUPERVISADO, Y QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASIMISMO, CERTIFICO QUE EL DISEÑO Y LA CONSTRUCCION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, CONOCIDA COMO "LEY DE PENAS Y MULTAS", SEGUN ENMENDADA, SEGUN APLIQUE. RECONOCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPA.

Norte

nombre y direccion del proyecto:

REMODELACION PLAZA MANUEL JIMENEZ MESA

Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:

Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	06.15.24	Elevaciones/secciones generales	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS03
plot scale 1=1
trg num 22260

drawing sheet number:

AS03

PR-CRP-000823

Remodelación de la Plaza Pública Manuel Jiménez Mesa Project

Guánica, Puerto Rico

Conceptual Rendering, Birds-eye View

trg
architects
Puerto Rico Office

Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5668
trg@trgarchitects.com

NOTA IMPORTANTE: ESTE DOCUMENTO Y TODA LA INFORMACIÓN CONTENIDA EN DICHO Y ESTA ILUSTRACIÓN ES ESTRICTAMENTE CONFIDENCIAL Y PROPIEDAD INTELECTUAL DE TRG ARCHITECTS. ESTA ILUSTRACIÓN O SUS REPRODUCCIONES NO PUEDE SER EN SU TOTALIDAD O EN PARTE, SIN EL CONSENTIMIENTO PREVIO Y POR ESCRITO DE TRG ARCHITECTS.

REMODELACION PLAZA JUAN JIMENEZ MESA

PR-CRP-000823

CALLE 25 DE JULIO & 65 DE INFANTERIA BARRIO PUEBLO GUANICA, PR

HONORABLE ISMAEL RODRIGUEZ RAMOS, ALCALDE

GOBIERNO MUNICIPAL DE GUANICA PO BOX 795 GUANICA, PUERTO RICO 00653

Información Adicional Proyecto OECH - SHPO-CF-06-04-24-13

notifications PRSHPO <notifications@prshpo.pr.gov>

Wed 7/3/2024 7:04 PM

To:Lauren Poche <Lauren.Poche@horne.com>

CAUTION: This email is from an external sender. Do not click links or open attachments unless you recognize the sender and know the content is safe.

SHPO
OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA
OFICINA DEL GOBERNADOR
STATE HISTORIC PRESERVATION OFFICE
OFFICE OF THE GOVERNOR
OECH

Información adicional

La Oficina Estatal de Conservación Histórica le solicita información adicional de su proyecto **SHPO-CF-06-04-24-13** para completar la evaluación.

Resumen:

Núm. de referencia: **SHPO-CF-06-04-24-13**
Nombre del proyecto: PR-CRP-000823 (Guánica), Remodelación de la Plaza Pública Manuel Jiménez Mesa

Descripción del proyecto:
The Municipality of Guánica proposes to rehabilitate the Plaza Manuel Jiménez and the four bordering streets.

Costo: $4,054,735.60
Municipio: Guánica
Fecha de envío para evaluación / Fecha de sometimiento: 04 Jun 2024
Fecha límite para evaluación: 04 Jul 2024

Comentario:
Dear Mrs. Poche, Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects. In order for the SHPO to fulfill its legal responsibilities, it is necessary that you provide us with the following documentation: 1. Project information: a) Schematic or preliminary drawings of the proposed general facades and sections, that show the proposed project design saved as a PDF file. If you have questions regarding this matter, please contact our Office at (787) 721-3737 or email, ediaz@prshpo.pr.gov.

Para cualquier consulta o estatus de la evaluación visite el portal: www.oechpr.com

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

Dear Arch. Rubio Cancela,

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery

6/4/2024

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

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

Section 106 NHPA Effect Determination Submittal for PR-CRP-000823, Remodelación de la Plaza Publica Juan Jiménez Mesa Project, Guánica, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional $8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH and the subrecipient, the Municipality of Guánica, we are submitting documentation for the proposed Remodelación de la Plaza Publica Juan Jiménez Mesa Project. The Municipality of Guánica proposes to renovate the existing plaza and surrounding streets through the demolition and replacement of Plaza level finishes, sidewalk pavements, concrete slabs, and a concrete platform, the improvement of ramps and crosswalks and repaving of the surrounding streets. Low wall planters will be demolished, trees relocated with new landscaping and plantings planned. Thirty-two existing light fixtures will be removed, and replaced with 24 new LED light fixtures, 40 bollards with integrated lighting, and 52 new low ambient light fixtures. A new play yard, new and additional street furniture, new pergolas and gazebos, and a new walking trail are planned. Existing kiosks will remain, while existing monuments will be relocated to different locations within the plaza. The existing fountains will be demolished. A new walk-through fountain, pump house with new pump equipment, pump module foundation, misters at the garden gazebos, storm sewer system, and cistern is also proposed. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% construction plans.

Based on the provided documentation, the Program requests a concurrence with a determination that "No Adverse Effect" is appropriate for this undertaking, conditioned to archaeological monitoring during ground-disturbing activities.

If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@horne.com.

Kindest regards,



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

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guánica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jiménez Mesa	

Project Location: Proposed site & architectural improvements at 25 de Julio Street (State Road PR-332) corner of 65 Infantería Street, Pueblo Ward Municipality of Guánica, Puerto Rico	
Project Coordinates: 17.972382, -66.907862	
TPID (Número de Catastro)**:** 407-085-059-01	
Type of Undertaking: ☒ Substantial Repair/Improvements ☐ New Construction	
Construction Date (AH est.): Ca. 1920	**Property Size** (acres)**:** 1.74 acres

SOI-Qualified Architect/Architectural Historian: Eduardo A. Regis Martinez / Maria Schmid
Date Reviewed: December 21, 2022 / December 6, 2023/ February 8, 2024/ May 6, 2024.

Virginia Rivera Calderón

SOI-Qualified Archeologist: Virginia Rivera Calderon/ Roberto G. Muñoz-Pando, PhD
Date Reviewed: June 13 ,2023 / December 8, 2023/ February 2, 2024/ May 6, 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. Activities related to this project will be done in a manner that does not meet Stipulations outlined in the Programmatic Agreement.

Project Description (Undertaking)

The following information is provided for Proposers to consider and estimate necessary resources and activities to develop the Project. Proposers shall consider that all activities shall be performed in compliance with the Community Development Block Grant for Disaster Recovery (**CDBG-DR**) Program policies set for the City Revitalization Program (**City Rev Program**) as approved by the U.S. Housing and Urban Development (**HUD**).

The Municipal Plaza is located at Avenida 25 de Julio, Guánica, coordinates: 17.972382°, -66.907862°

The following information shall be considered to understand requirements and identify necessary studies and design of the Project:

a. The Municipality of Guánica wants to renovate the existing Municipal Plaza. The project is a public facility that is in the center of the urban area of the Municipality. The Plaza has a footprint of 0.933227acres or 40,9946.4 square feet. The APE including the streets and street corners have a total footprint of 1.74 acres or 1,102.80 square meters

b. The works proposed are the remodeling of the existing plaza walkways, small structures, fountains, and gardens including the replacement of all existing light posts, benches and trash receptacles, reconstruction of two existent kiosks and the construction of a stage. Also, access will be improved so that people with physical disabilities can access the plaza and participate in activities aimed at this population. This project will reactivate the flow of people to the urban area. Finally, this project aims to improve the aesthetics of the urban center by building a modern square that in turn, is integrated with the historic buildings that are around it.

The undertaking aims to provide an articulated urban space for gatherings, ceremonies & festivals. The remodeled plaza will offer new family-oriented urban amenities that will assist in reactivating the town center while creating an attraction for moving into the urban area.

This Plaza was rebuilt practically in its entirety by 2004 and then in 2016, any vestige of its original environment, dating from around 1920, was lost. The property is demarcated within the confines of a Public Facility (DT-P) as established in the Land Classification Map for the Municipality of Guánica, sheet 38 effective June 2, 2010. The property retains its original use, size & configuration as a plaza. All the new facilities and amenities now proposed are akin to those uses and the size of the plaza is also the same with slightly rectangular shape.

The Municipality of Guánica is interested in the remodeling of the Plaza Juan Jimenez Mesa to update its urban infrastructure program to modern operational standards. All such improvements and repairs must comply with state and federal design parameters for public spaces and that they do not negatively impact the historical/urban environment before the ICP and the State Office of Historic Preservation. The original, orthogonal shape of the square is respected.

The following ground disturbing activities are estimated as per Construction Cost Estimate Document and Page DS01, Page AS01, Page AS02 of the 90% Construction Plans:

a. The project reconfigures green areas to add more vegetation and reforestation to the Plaza. For this, there will be demolition of low wall planters, removal of six trees for relocation, and the removal and discard of one tree. The 90% improvement plans propose one new landscaping/planting, the relocation of six trees, and planting of 16 new trees. Since there are no landscaping plans in the 90% design, it is assumed that an estimated 3' depth for excavation and removal of trees will take place according to the 60% plans.

b. Paved areas are reconfigured to better interact with amenities and facilities of existing and proposed urban infrastructure. For the Plaza level finishes there will be removal and demolition of sidewalk pavements, demolition of concrete slabs and pavements, and the demolition of a concrete platform. New pavement finish at central plaza area, sidewalks, and ramps will be added. Also, new play yard ground surfaces, new

pedestrian crossings, new granite border coping, new soldier brick joinery, and glazed emblem tiles. These activities will have an estimated depth of ground disturbance of one foot. The existing pavements of the streets surrounding the Plaza will be scarified to add new on-ground concrete slabs, new sidewalks, ADA ramps, and new asphalt finish will have an estimated depth of ground disturbance of one foot.

c. New and additional street furniture to offer more recreational areas in shaded areas, including existing pieces/monuments for operation within the new configuration. As per the proposed road Improvements on the 90% plans on page AS01 the existing kiosks are to remain, but there will be removal of 34 benches for relocation, and the removal of bird sculpture installations. Eight new metal pergolas, two new garden gazebos, a new play yard/exercise equipment, and new walking trail is proposed. As per Page AS03 a new Pergola with reinforced concrete base will have an estimated depth of 3'-11" and the New Garden pavilion of 3'-1.5" depth. New granite stone bollards (40) will have an estimated depth of ground disturbance of 1'-6".

d. Lighting of public space is improved with modern and more efficient technology. This will require the removal of 32 existing light fixtures and the installation of 24 new 15' poles with LED light fixtures, 40 new 3' bollards with integrated LED light fixtures, and 52 new low ambient light LED light fixtures. New electrical site work will require 35,950 square feet area, and a new electric meter pedestal with footings of approximately 3 feet deep.

e. Ramps and crosswalks are improved in compliance with current laws and codes. The existing pavements of the streets surrounding the Plaza will be scarified to add new on-ground concrete slabs, new sidewalks, ADA ramps, and new asphalt finish will have an estimated depth of ground disturbance of one foot.

f. A temporary fence will be built for safety during construction around the perimeter of the Plaza and will have wooden fence posts that will be driven in the ground approximately 3'-6" below the surface. The temporary silt fence with fabric will have a minimum of 1' below ground surface. A temporary hose bib wooden post will be driven in the ground approximately 18" below the surface.

g. The new plaza furniture is proposed in line with the programming of uses and atmosphere proposed. The benches are made of durable material, located within covered or partially covered areas. there will be removal of 34 benches for relocation, and the removal of bird sculpture installations. Eight new metal pergolas, two new garden gazebos, a new play yard/exercise equipment, and new walking trail is proposed. As per Page AS03 a new Pergola (reinforced concrete base) will have an estimated depth of 3'-11" and the New Garden pavilion will have an estimated depth of 3'-1.5" depth.

h. Existing kiosks to remain. Sculptures of the Veterans Monument will be relocated within the square from the southwest corner of the plaza to the northeast corner as per the 90%

plans. Concrete flooring, erected in 2016, will be removed. The new Veterans monument base and six information plaques, three on either side of the monument will be relocated to the northeast corner of the Plaza. The New Veterans monument base is approximately 2.3' deep and the six information plaques bases will require footings of 2.75' deep. No acoustic shells, platforms or stands are proposed in the project.

i. Vegetation: Trees, shrubs, and flowers define zones within the space of the square; therefore, the landscape treatment must retain height and leafiness of the trees in close proportion between the surrounding buildings and their height at which it will not be greater than a four-story building. They will be oriented in such a way that a cone of shade is obtained that protects the rest areas. The addition of three-foot hedge systems will prevent the destruction of meadows/flowers that are to be planted. demolition of low wall planters, removal of six trees for relocation, and the removal and discard of one tree. The 90% improvement plans propose one new landscaping/planting, the relocation of six trees, and planting of 16 new trees. The 60% plans note a 3' depth for excavation and removal of trees.

j. Demolition of concrete fountain basin, demolition of pump house and removal of pump equipment is proposed. A new walkthrough fountain with 25 new fountain nozzles is proposed and inlcudes: a new pump house with new pump equipment, and new pump module foundation. New misters at the garden gazebos, new storm sewer system, and a new cistern is also proposed (See Page AS03). The fountain nozzles have an esitmated 1'-3" depth to connect to an exisitng water line. The total depth of ground disturbance for this feature is approximately 2'-11". A new trench for storm sewer pipes (on Page C-6 and C-9) requires excavation of approximately 8' deep of ground disturbance. The utilities will be located near where previous ground disturbance has been already located. Details of the pump and cistern are on page P-201. These drawings are not to scale, so the depths are estimated.

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 as on this definition and the nature and scope of the Undertaking, the Program has determined that the Plaza is 0.933227acres or 40,651.36 square feet and the direct APE which also includes the viewshed of the proposed project, is defined by the surrounding streets and corners and up to the facades of the buildings on the opposite streets for a total of 1.74 acres or 1,102.80 square meters.

The Municipal Plaza Juan Jiménez Mesa is located at 17.972382; -66.907862, on 25 de Julio Street (State Road PR-332) Municipality of Guanica, PR. Like most public squares, it is

surrounded by mostly institutional buildings. To the East the New City Hall, built around 2006, faces plaza across 25 de Julio Street (heavily damaged during 2020 earthquake cluster event, to be demolished). To the South the Old City Hall building (built in 1921, currently used as museum) is on the corner of 25 de Julio & Del Rosario streets, while early 20th century concrete and wood private residences complete the block up to the corner of Dr. Veve street. To the West Colegio Beata Imelda catholic school (built in 1955) & Antonio Abad parish church (built in reinforced concrete in 1953, in same location of timber & mortar church was ca. 1910) completes the block along Dr. Veve street. At the northwestern corner of 65 de Infanteria & Dr. Veve streets the NRHP-listed **James Garfield Graded School** (built in1903 with an addition in 1926) is located. To the North the Maria Luiss McDougall elementary school (built ca. 1925) & the Dr. Nestor Frontera Tacoronte building (an early 20th century masonry structure converted into medical offices) faces plaza along 65 de Infantería Street.

This type of project could impact the area during its progress, through possible sedimentation of existing rainwater systems, emission of fugitive dust, temporary interruptions of both vehicular and pedestrian traffic, as well as temporary inaccessibility to parking areas along the right-of-way. To this end, coordination will be carried out with the Municipality of Guánica, its municipal police force, and other government agencies with jurisdiction over the project to establish a mitigation plan for controlling fugitive dust and sedimentation to the existing rainwater system, as well as a temporary coordination plan for vehicular and pedestrian traffic.

Undertaking is the direct APE (plaza)and is demarcated by North 65 de Infantería Street to the north, 25 de Julio (PR-332) Street to the east, Del Rosario Street to the south, and Dr. Veve Street to the west. The Lambert coordinates in the NAD83 system of the property are X=149737.0523, Y=215455.1267 (LAT 17.97238227 LON -66.90786221). The street measurements also correspond to the visual APE from its longest street sides of 334.54 feet long to 305.09 feet wide.

The Plaza is 210'-0" (64 meters) on east-west direction by 195-0" (59.5 meters) on north- south direction with an approximate surface area of 40,990 square feet (3,809 square meters), while direct APE is 275'-0" (83.8 meters) on east-west direction by 256-0" (78 meters) on north-south direction with an approximate surface area of 75,570 square feet (7,023 square meters). The streets measurements including both sidewalks to the plaza are 45 feet wide x 518 feet long on 65 de Infantería Street, 30 feet wide x 480 feet long at Del Rosario Street, 42 feet x 328 feet long at Dr. Veve Street, and 30 feet x 298 feet long at 25 de Julio (PR-332) Street.

The Indirect APE includes the opposite street facades around the Plaza and the corner street facades as shown on the Area of Potential Effect aerial map and its viewshed. Located inside the Guánica Traditional Urban Center, the plaza space itself is NRHP-eligible. The types of properties that surround the Plaza are commercial, residential, government offices

such as Municipal Hall on the west side, entertainment buildings such as the Pedro Juan Vargas Museum to the south, and an elementary school building to the north. The properties are mainly one- or two-story buildings made of concrete, masonry, or Wood frame with either concrete roofs or corrugated metal roofs that date from the late Nineteenth Century to mid Twentieth Century.

Identification of Historic Properties – Archaeology

Cultural Setting

The territory of the municipality of Guánica has an extension of 37.1 square miles, 96.2 square kilometers, and is located on the southwestern coast of the island. This municipality is divided into the following districts: Arena, Caño, Carenero, Ciénaga, Ensenada, Montalva, Pueblo, and Susúa Baja. It is mostly flat, with some small elevations. The tallest hill is Lajara, with a height of 178 meters; followed by Abra, Las Lomas de Seboruco, and El Peñón. Montalva Hill, Las Pardas Mountains, and Brea Mountains are all less than 100 meters high. Its coast has Punta Ballena, in front of which the cays of Caña Gorda, Punta Jacinto, Guánica Bay, Las Pardas Cove, Brea Points, Frontón de la Brea, Hunchback, and Bishop's Point are visible. The Terremoto and Don Luis cays are located between Hunchback and Bishop's Point. The Guánica Dry Forest is in the coastal zone and is unique in the world for its diversity of trees, which are about 700 species. Guánica Bay divides the forest into two segments, encompassing about 4,000 hectares. The mangroves add up to about 72 hectares of red mangrove. Its hydrography is highlighted by the Loco River, which originates in Yauco and enters Guánica from the northeast, emptying into Guánica Bay. The Guánica Lagoon is almost completely sedimented. These geographic characteristics allowed Guánica to become an area that was early populated. It has an interesting pre-colonial history and a rich colonial life both from the 19th century and the stage that began with the American intervention of 1898.

The municipality of Guánica has 4 Sites included in the National Register of Historic Places, which are: **Yauco Battlefield, Guánica Lighthouse, Santa Rita Hacienda, and James Garfield School**. These sites are intimately related to the municipality's foundation, the development of the 19th-century sugar industry, and the arrival of Americans in 1898. Twenty-five pre-Columbian and historic sites have been identified within the municipality. Fifteen sites contained both pre-Columbian and historic materials; the remaining ten are exclusively historic (both sites and architectural resources).

Considering that Guánica is a coastal municipality with a rugged topography, it is not surprising that there is a significant number of sites inherited by the indigenous people where petroglyphs, lithics, ceramics, shells, and mollusks are identified. Additionally, the architectural richness of the late 19th and early 20th centuries can be seen in the buildings of Hacienda Santa Rita in the Susa Baja district and Hacienda Igualdad in the Caño district.

Likewise, the Guánica Lighthouse and Caprón Fort, both in the Carenero district, recall the military and defensive importance of this beautiful point in the southwest area of Puerto Rico.

The pre-colonial memories are still intact on the rocks of the coasts of the Municipality of Guánica. While the interesting modern history places Guánica as a protagonist of two decisive moments for the development of Puerto Rico, the rise of the Sugar Industry and the arrival of the American army, it allows the identification of historical sites of indescribable importance.

The present municipality of Guánica, like most of the rest of the island of Puerto Rico, was inhabited by groups including the *Taínos*, the natives that greeted Columbus and the first Europeans to set foot in the Caribbean. Coastal areas of Puerto Rico are generally rich in archaeological potential. Therefore, the APE is in an area that has the potential for precolonial archaeological resources.

Table 1 of Archaeological and Historical Sites within a quarter-mile buffer of the APE:

Name	SHPO ID #	IPRC ID #	Distance/ Direction	Description	NHRP (listed, ligible, non-eligible, earring, no data)
Escuela James Garfield	GA-0200010	GA-25	0.03 miles/ north	Historic, Institutional, 20th Century. Built in 1903 and repaired between 1910 and 1926 where its structure was expanded. Consisting of one floor, seven classrooms, L-shaped, bricks, masonry and neoclassical concrete, flat metal construction with parapet. Oldest School in Guánica.	Listed: 15000275
San Antonio Abbot Parish	GA-0200008	GA-23	0.03 miles/ west	Historic. Religious, 19th and 20th Century. Located on Dr. Veve Street opposite the Public Square. It was originally built in the late 19th century (1876). It was built as part of the demands of the Guaniqueno people on their separation from the Municipality of Yauco.	Earring

				Several renovations have been carried out.	
Museum of Art and History	GA-0200009	GA-24	0.03 miles/ south	Historic, Institutional, and 20th Century. Located on the corner of 25 de Julio Street and Carlos A. del Rosario Street, the current Museum of Art and History was once the Guánica City Hall in previous decades, with a building that dates to 1921. After restoration, it opened its doors as a museum on March 12, 2006. It also serves as the headquarters of the Office of Art, Culture, and Tourism.	Earring

Summary of Table 1

This table represents the three historic sites within a quarter mile radius of the APE. None of the three of them are expected to be adversely affected by the proposed project as described in the Architecture section of this form. The most important information about these sites is summarized in the table.

Table 2 of Previously Conducted Cultural Resources Surveys within a quarter mile buffer of the APE

Author	Title/ Phase	Location/ Direction	SHPO/ IPRC #	Year	Results
Eduardo Questell Rodríguez	Centro Comercial PR-333/ Phase 1A-1B	0.15 miles northeast	ICP/ CAT-GN-03-04-06	2003	Negative
Jesús F. Figueroa Lugo	Escuela Superior Urbana/ Phase 1A- 1B	0.21 miles northeast	ICP/ CAT-GN-90-01-06 SHPO/ 02-02-90-14	1990	Negative
Antonio	Parque de Bombas	0.24 miles	ICP/ CAT-GN-98-03-05	1998	Negative

Daubón Vidal	Carretera PR-333/ Phase1A-1B	northeast			
Harry E. Alemán	Indoor court, passive park, and Little League Park/ Phase 1A- 1B	0.04 miles northwest	SHPO/ 03-31-86-03	1986	Negative
Adalberto Maurás Casillas	New Municipal Government Center/ Phase 1A- 1B	0.03 miles east	ICP/ CAT-GN-04-01-05	2004	Negative
Marisol Rodríguez Miranda	Widening PR-116/ Phase 1A-1B	0.03 miles south	ICP/ CAT-GN-97-03-03	1997	Positive
Luis Antonio Curet	Expansion and Improvement of Used Water Treatment Plant/ Phase 1A- 1B	0.19 miles west	SHPO/ 02-28-88-02	1988	Positive
Jesús E. Vega	Salinas- Providencia Sanitary Line	0.22 miles southwest	ICP/ CAT-GN-04-05-03	2004	Positive

Summary of Table 2

During our research in the State Historic Preservation Office (SHPO) and Institute of Puerto Rican Culture (IPRC), we found a total of eight archaeological research surveys within the quarter mile buffer of the APE.

The following Cultural Resource Surveys yielded negative results. In 2003, Eduardo Questell Rodríguez authored "Centro Comercial PR-333/ Phase 1A-1B" located 0.15 miles northeast of the APE at its closest point. Its IPRC number is ICP/ CAT-GN-03-04-06. In 1990, another study, authored by Jesús F. Figueroa Lugo, titled "Escuela Superior Urbana/ Phase 1A- 1B." It is located 0.21 miles northeast of the APE at its closest location. Its ICPR and SHPO numbers are ICP/ CAT-GN-90-01-06 and SHPO/ 02-02-90-14. In 1998, a study authored by Antonio Daubón Vidal, was conducted 0.24miles northeast at its closest point to the project area. It was titled "Parque de Bombas Carretera PR-333/ Phase1A-1B" and its IPRC number was ICP/ CAT-GN-98-03-05. In 1986, a study authored by Harry E. Alemán was located 0.04 miles northwest of the APE at its closest point. It was titled "Indoor court, passive park, and Little League Park/ Phase 1A- 1B" and its SHPO number is SHPO/ 03-31-86-03. In 2004, Adalberto Maurás Casillas authored another survey that also yielded negative results. It was located 0.03 miles east at its closest point to the APE and was titled "New Municipal Government Center/ Phase 1A-1B." Its IPRC number is ICP/ CAT-GN-04-01-05.

Only three of these eight archaeological research studies yielded positive results. The first of the positive results surveys on figure 3 is ICP/ CAT-GN-97-03-03. This was a study performed in

1997 by Marisol Rodríguez Miranda titled "Widening PR-116/ Phase 1A-1B" and 0.03 miles south of the project area at its closest point to the APE. Nineteen out of its twenty testing pits had positive results. Twelve shell fragments, a fish spine fragment, and other materials were obtained. Additional studies, monitoring, and protection of areas were recommended. Another one of the positive results turned out at SHPO-02-28-88-02. Luis Antonio Curet authored this study titled "Expansion and Improvement of Used Water Treatment Plant/ Phase 1A- 1B" in 1988. It was located 0.19 miles west of the APE at its closest point. The final investigation of this evaluation concluded that surface tracks and shovel tests resulted negative, except one. Shovel Test #6 resulted in 9 ceramic fragments and a shell. Tests around this showed that the finding is isolated. The third survey with positive results was ICP/ CAT-GN-04-05-03. This survey was authored in 2004 by Jesús E. Vega and titled "Salinas-Providencia Sanitary Line." It was located 0.22 miles southwest of the APE at its closest point. The archaeological materials that can be observed on the surface are redeposit, both by the transport of filling from the quarry north of PR-116 (where an archaeological site in the hills of Abra was impacted), and by the erosion of another archaeological site, immediately east of the Rio Loco and north of the PR-116 bridge. It is recommended not to perform archaeological mitigation, since the archaeological material is extremely limited, impacted, and does not present an opportunity to reconstruct the cultural chronology of the site, or to answer questions that may contribute to the prehistory of the region.

A visual inspection took place on May 6, 2023, by Virginia Rivera's team, to evaluate the current state of the Public Square. Important structures or buildings in its surroundings were documented in directions North, East, South and West. No archaeological artifacts were reported on the surface during that inspection.

The entirety of the APE is in the Traditional Urban Area of the Municipality of Guánica. It is in Urban Land (Ua). The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

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 located within the Traditional Urban Center of Guánica.

Based on the results of historic property identification research efforts, including consulting 1930, 1950,1993, and in 2016 aerial photos, NRHP listings at the Puerto Rico State Historic

Preservation Office (PRSHPO/OECH) website and zoning maps from the Puerto Rico Planning Board (PRPB), some listed, or historically designated property are present within the direct and indirect APE. The conducted research has determined there is one NRHP-listed property within the 1/4-mile buffer zone of the project area. There are fourteen (14) properties that are eligible for listing in the NRHP, eight (8) are located around the Plaza inside the visual APE and six (6) are located outside the visual APE but within the quarter-mile buffer zone.

Guanica' s emblematic buildings such as the **James Garfield Graded School** listed in the NRHP (15000275) in 2015 to the northwest and the Maria Luisa McDougall school potentially eligible to the NRHP located to the north, Parroquia San Antonio Abbad, potentially eligible to the NRHP located to the west and the Museo de Guánica (former Town Hall) eligible to the NRHP to the south. The site is also surrounded by other early 20th century buildings, among others. *(Refer to Viewshed Exhibit #1-#20)*

Description of the Project Property

The **Plaza Pública Juan Jiménez Mesa** is one of these eligible properties within the Guánica historic urban center and is, although architecturally altered, eligible for NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history. The Plaza Publica Juan Jimenez Mesa is located between 25 de Julio Street to the east, 65 Infanteria Street to the north, Dr. Veve Street to the west and Rosario Street to the south. The square was originally an unpaved open square during the 1900's. By 1910 the Plaza was prepared and was paved during the 1920's when concrete institutional buildings started construction around it. The Plaza has had various alterations and additions during the 1950's, in 1993, and in 2016 that affected the integrity of the square's original layout.

Originally known as Quinones square its name changed in 1915 to Plaza de la Independencia (Independence Square) after Guánica is recognized as a separate municipality on March 13, 2014. The 1920 design is attributed to architect Tomas Olivari Santoni who is the same architect of Guánica Old City Hall from 1921. By 1921 the square was already known as Plaza Manuel Jiménez Mesa, perhaps for its financing of its carbide lighting system. (Source Plaza Manuel Jiménez Mesa - Wilbert Pagán, 2014). By 1936 an ornate bandstand was built and was demolished in 1984 during works for remodeling. The Plaza was again remodeled in 1994 and later in 2013 affecting the integrity of the square's original layout. The Plaza Pública Juan Jiménez Mesa is a fundamental part of Guánica's urban center, and the space still has the role of a gathering space for the community.

NRHP-listed and Eligible Properties within the Visual APE:

The one NRHP-listed property within the 1/4-mile buffer zone from the project area is the **James Garfield Graded School** (15000275) located in the 65th de Infantería Street and 0.05 miles northwest of the project area. This listed building is a brick, masonry, and concrete one-level schoolhouse, built in 1903 in Neoclassical Revival style. Charles G. Post was the Architect/Builder of the school, which is the oldest schoolhouse in Guánica, and the first institutional building on the municipality constructed under US authority on the island. The school has an addition in reinforced concrete at the back of the original building from 1926. These additions changed the floor plan to an L-shaped one, however, due to its construction period, they are contributing elements that do not alter the eligibility of the resource to convey its historical significance. The school was listed in the NRHP on 5/26/2015.

The following eight NRHP-eligible buildings surrounds the square:

1. Reinforced concrete two-level Old Guánica City Hall building **Antigua Alcaldía de Guánica** was built in 1921, its design attributed to architect Tomas Olivari Santoni in the Mannerist revival style. After relocating the municipal offices to the new city hall, this building is currently used as the Pedro Juan Vargas Mercado Art & History Museum. The property is eligible/contributing under NHPA Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history; and under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or particular method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

2. Reinforced concrete, wood and metal one-level **private residential structure** built in creole (criollo) style adjoining Old City Hall Annex, built ca. 1940 is mostly in original condition. Property eligible/contributing under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

3. Reinforced concrete, wood and metal one-level **private residential structure** built in creole (criollo) style, located in the southeastern corner of Dr. Veve & Del Rosario Street, built ca. 1940. Mostly in original condition, the property is eligible/contributing under NRHP Criterion C because it embodies distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

4. Reinforced concrete, wood and metal roof one-level private **House on Carlos del Rosario Street** built in creole (criollo) style, located at the southwestern corner of Dr. Veve & Carlos

del Rosario Street, built ca. 1940. The exterior was altered (not able to inspect interior). The property is eligible/contributing.

5. Reinforced concrete one-level **Colegio Beata Imelda Catholic School** built in 1955 and designed in Art Deco style, designer unknown. Property eligible/contributing under NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or possess high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.

6. **San Antonio Abad Catholic Parish Church**, built in reinforced concrete ca. 1930, in same location of previous wood & mortar church-built ca. 1910 in Spanish colonial style. Designer Francisco Porrata Doria Architect. Although the parish indicated its founding as in 1888, there is some belief it was initially founded outside of the current town core. Property eligible/contributing under NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history. The building is eligible for NRHP Criterion C because it embodies any distinctive characteristics of a type, period, or a particular method of construction, or may represent the work of a master, or that possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction.

7. Brick, masonry, and concrete one-level **Maria Luisa McDougall Elementary School** was built ca. 1930 in the Spanish Revival Style. The designer is unknown. The building was altered, but integrity remains. Property eligible/contributing under NRHP Criterion A because it has been associated with events that have made a significant contribution to the broad patterns of our history; and is eligible for NRHP Criterion C because as it embodies any distinctive characteristics of a type, period, or particular method of construction, or may represent the work of a master, or possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

8. Masonry and concrete early 20th century one-level commercial structure in the Spanish Colonial style, that was converted into medical offices. Known as the **Dr. Nestor Frontera Tacoronte Building**, the property is eligible/contributing under NRHP Criterion C because it embodies distinctive characteristics of a type, period, or method of construction, or may represent the work of a master, or possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

<u>Other NRHP-eligible properties within a ¼ mile radius, but not in Visual APE:</u>

9. Reinforced concrete **Guánica Fire Station** (17.972623930588437, -66.9087007430897) built ca. 1940 designed in Modernist style, and currently used as municipal police station.

Located 0.05 miles northwest of the Plaza (APE). Original sign in still in place with the plaque reading: "En Memoria de Don Arturo Chacón Cortés 1881-1951, Servicio de Bomberos de Puerto Rico".

10. Wood and concrete one-level, open bay **Adventist Church** (17.97433999095974, -66.9086134473937) built ca. 1935 in the Neogothic style. The designer is unknown. Located 0.13 miles northwest of the Plaza (APE).

11. **Luis Muñoz Rivera Public Housing Complex** composed of twenty (20) Reinforced concrete three-level buildings (17.97392269593276, -66.9065353440073). Located 0.05 miles northeast of the Plaza (APE). Built ca. 1960 in Modernist style, designer is unknown.

12. Reinforced concrete two-level **Franklin Delano Roosevelt School** (17.971190697348213, -66.9068549385354). Located 0.13 miles southeast of the Plaza (APE). Built ca. 1940 with interventions until 1956, in a Spanish Revival style. Designer is unknown.

13. The **Guánica Municipal Hospital** is a reinforced concrete one-level building (17.97049053897231, -66.90782193233403) currently used as a home for the elderly. Located 0.13 miles south of the Plaza (APE). Built ca. 1940, in a Spanish Revival style designed by Architect Rafael Carmoega.

14. The former **Guánica Civil Defense Building** a reinforced concrete two-level building, (17.972255014898558, -66.90872975374002) currently used as Guánica Municipal Management Office (OMME). Located 0.06 miles west of the Plaza (APE). Built ca. 1920, in the Spanish Revival style. Designer is unknown.

Statement of Determination

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).

- Direct Effect:

The **Plaza Pública Juan Jiménez Mesa** does meet criteria to be eligible to the National Register of Historic Places under Criterion A (history). The town plaza is associated with the development of the town and events that have made a significant contribution to the broad pattern of history. The town plaza is a contributing urban space in the eligible historic Guanica urban district. The town square retains the scale, ambiance and street relation that reflects the tradition of the life of the Guanica town. However, due to the additions and alterations through the years, the Plaza Pública Juan Jiménez Mesa lacks the integrity it had in the past. The Plaza is eligible under Criterion C as it is clearly defined, is significant, and is a distinguishable entity contained by an urban environment.

- Indirect Effect:

The visual and physical associations between the plaza and the immediate built surroundings are one of their character defining features. Per the PRSHPO, the development of plazas as an NRHP type (site) obeys a historic context that should be considered as decisive in defining their patrimonial character.

The entirety of the APE is in the Traditional Urban Area of the Municipality of Guánica. It is in Urban Land (Ua). The area was also potentially previously inhabited by precolonial people because many colonial settlements were historically placed on or near the lands of the original inhabitants. Based on the previously performed archaeological resource surveys, the current land and soil conditions, and the previous ground disturbances to the APE, the probability of finding new and undisturbed archaeological sites within the APE is considered moderate.

After further research, historic properties as defined in 36 CFR 800.16(1) are found within the APE. Undertaking actions will have no adverse effect upon any identified historic property nor viewshed that compose the Area of Potential Effect. However, since there is a moderate probability of finding new and undisturbed archaeological sites within the APE, the program recommends an archaeological monitoring of all ground disturbance activities.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	
Subrecipient: Municipality of Guánica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jiménez Mesa	

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

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

☐ No Historic Properties Affected

☒ No Adverse Effect

Condition (if applicable): Historic properties are located near the APE and its viewshed, but none will be adversely affected by the proposed project. Archaeological monitoring of any ground disturbing activities and excavations is recommended. A monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

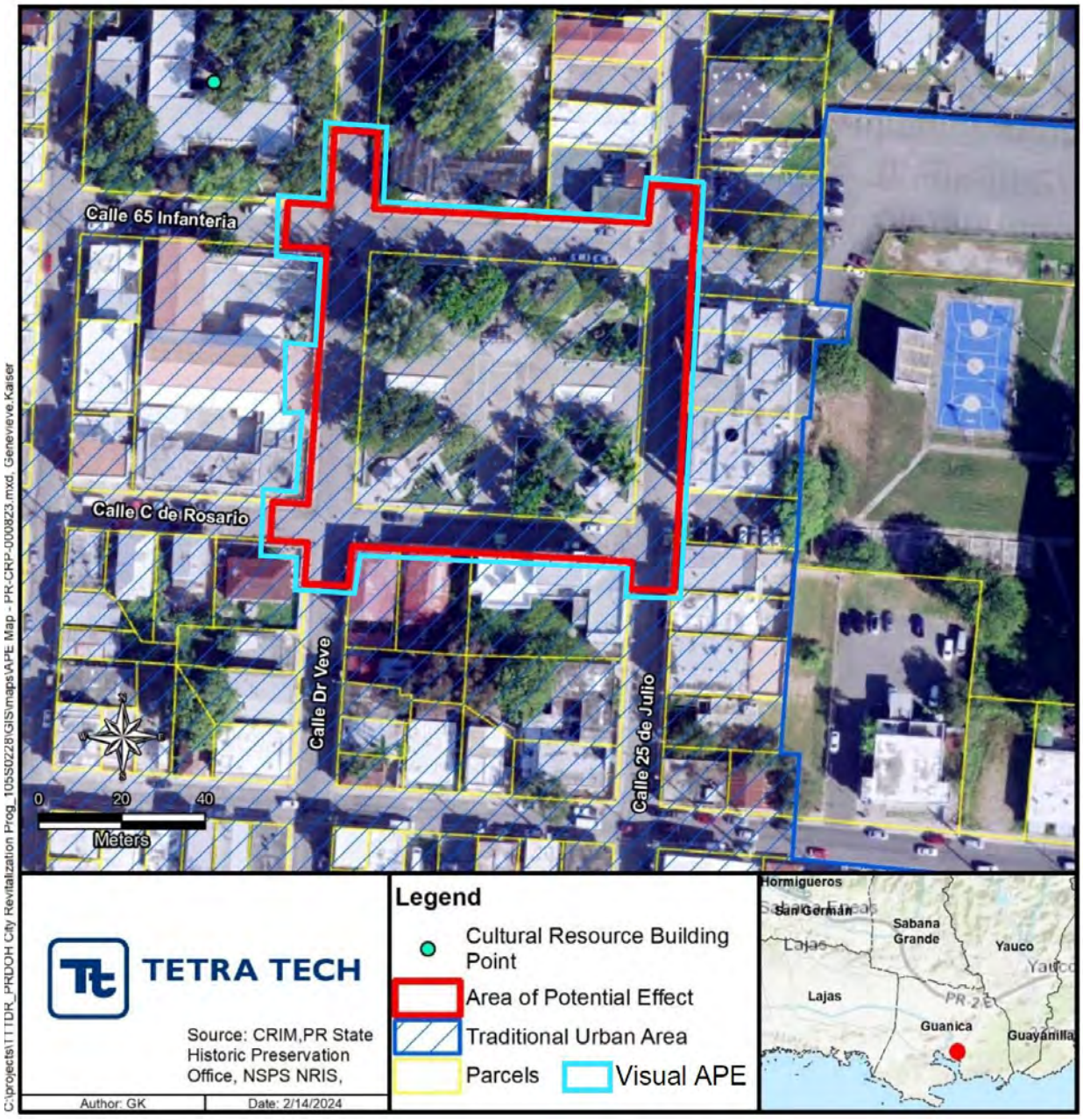
☐ Adverse Effect

Proposed Resolution (if appliable)

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:

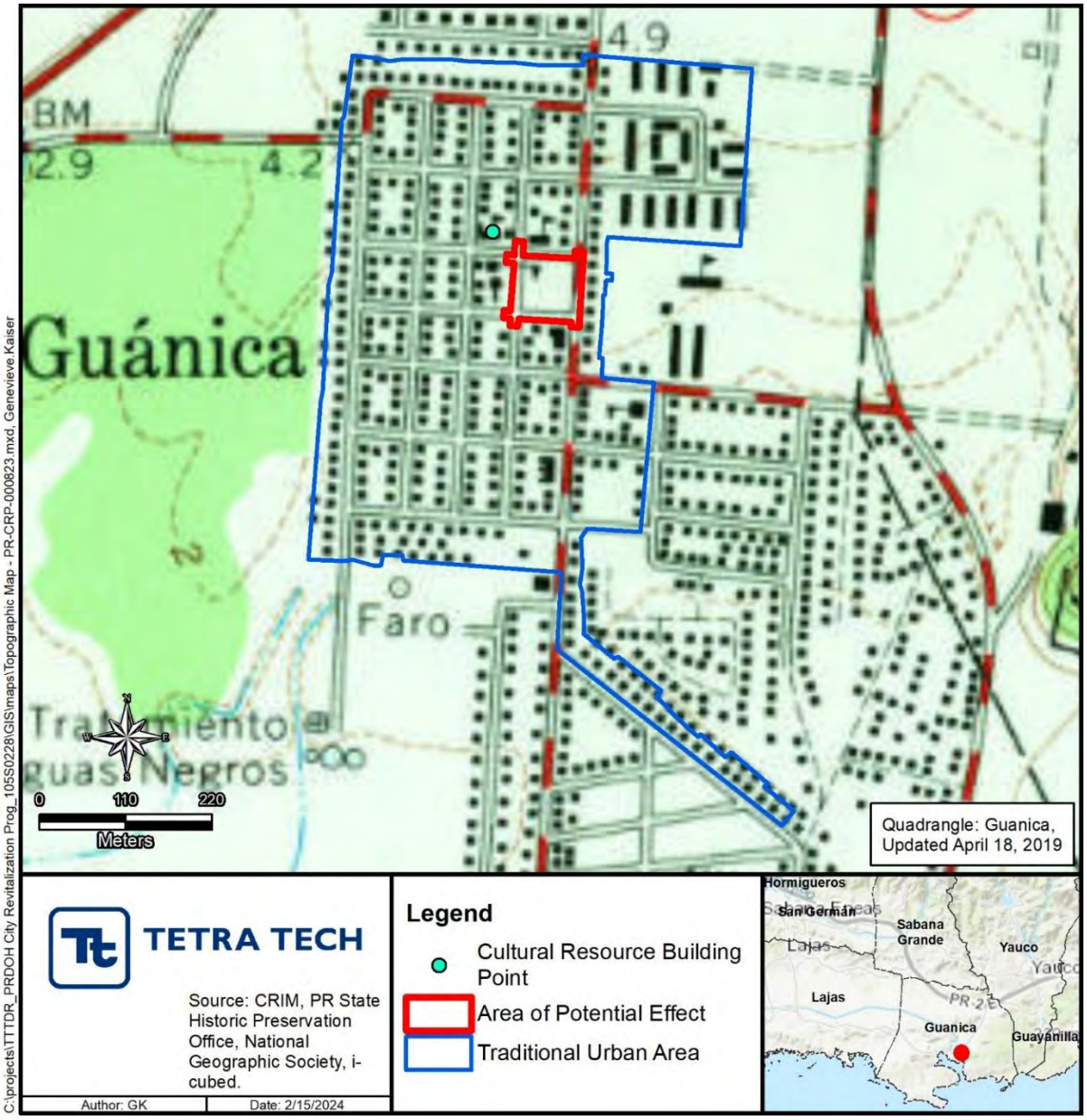
Project (Parcel) Location – Area of Potential Effect Map (Aerial)



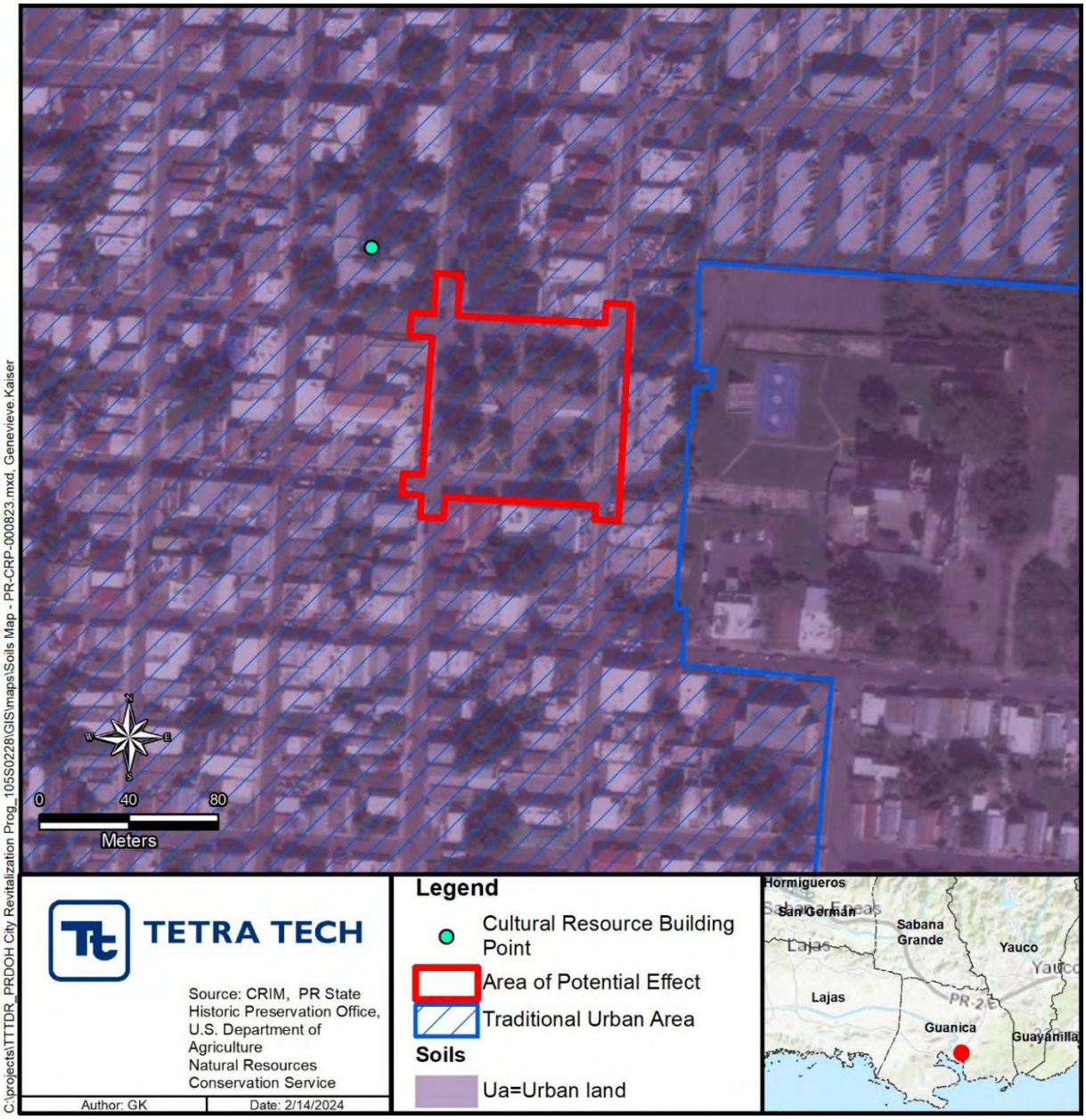
Project (Parcel) Location - Aerial Map



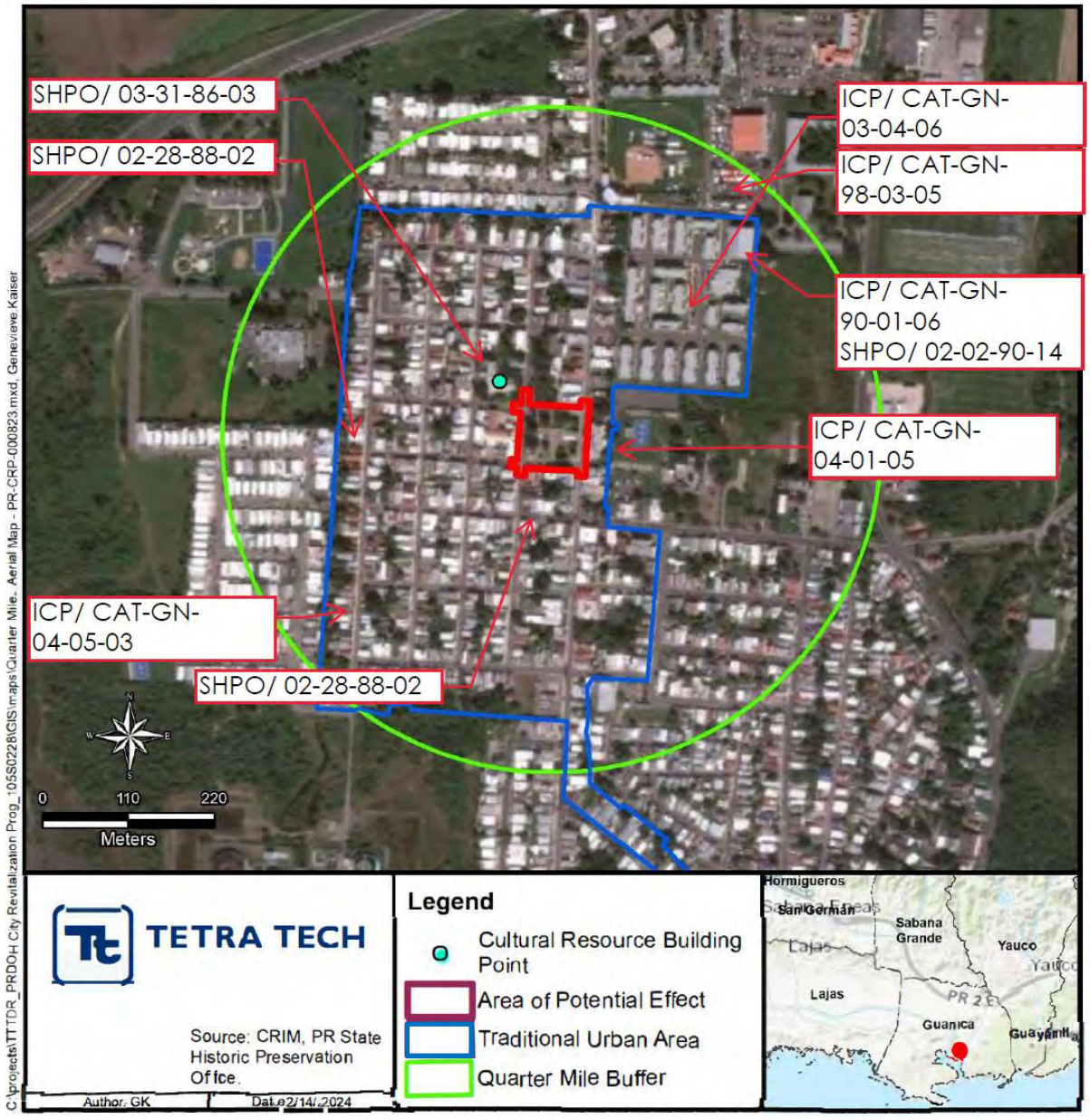
Project Parcel Location - USGS Topographic Map



Project (Parcel) Location – Soils Map



Project (Parcel) Location with Previous Investigations - Aerial Map



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



Project (Parcel) Location with NRHP-listed and Eligible Resources - Aerial Map



Project (Parcel) Location with NRHP-listed and Eligible Resources

USGS Topographic Map



Project Location - APE (Historic Context 01) (Aerial photo 1930 photogrammetric survey)



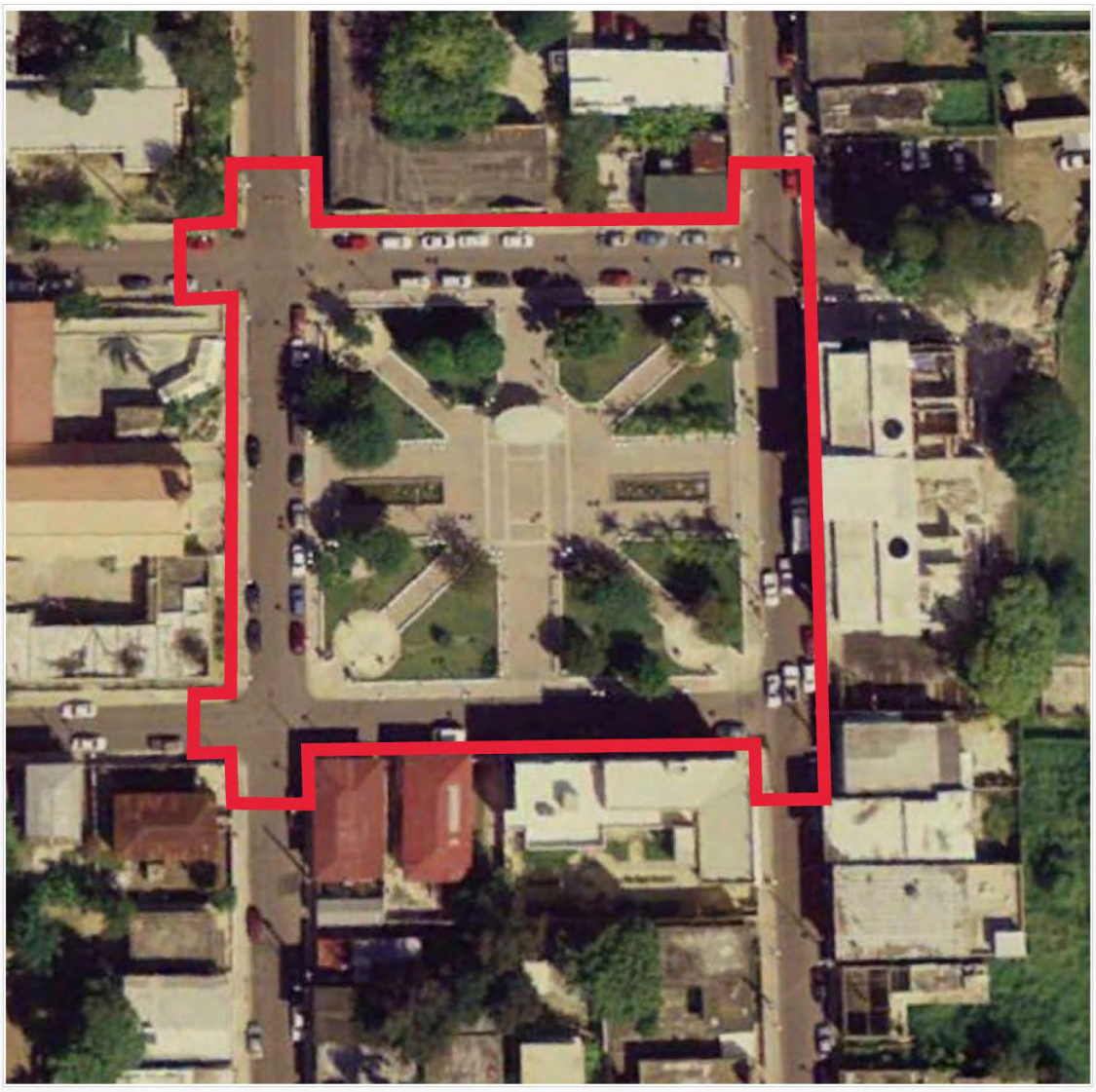
Project Location – APE (Historic Context 02) (Google Earth 1993)



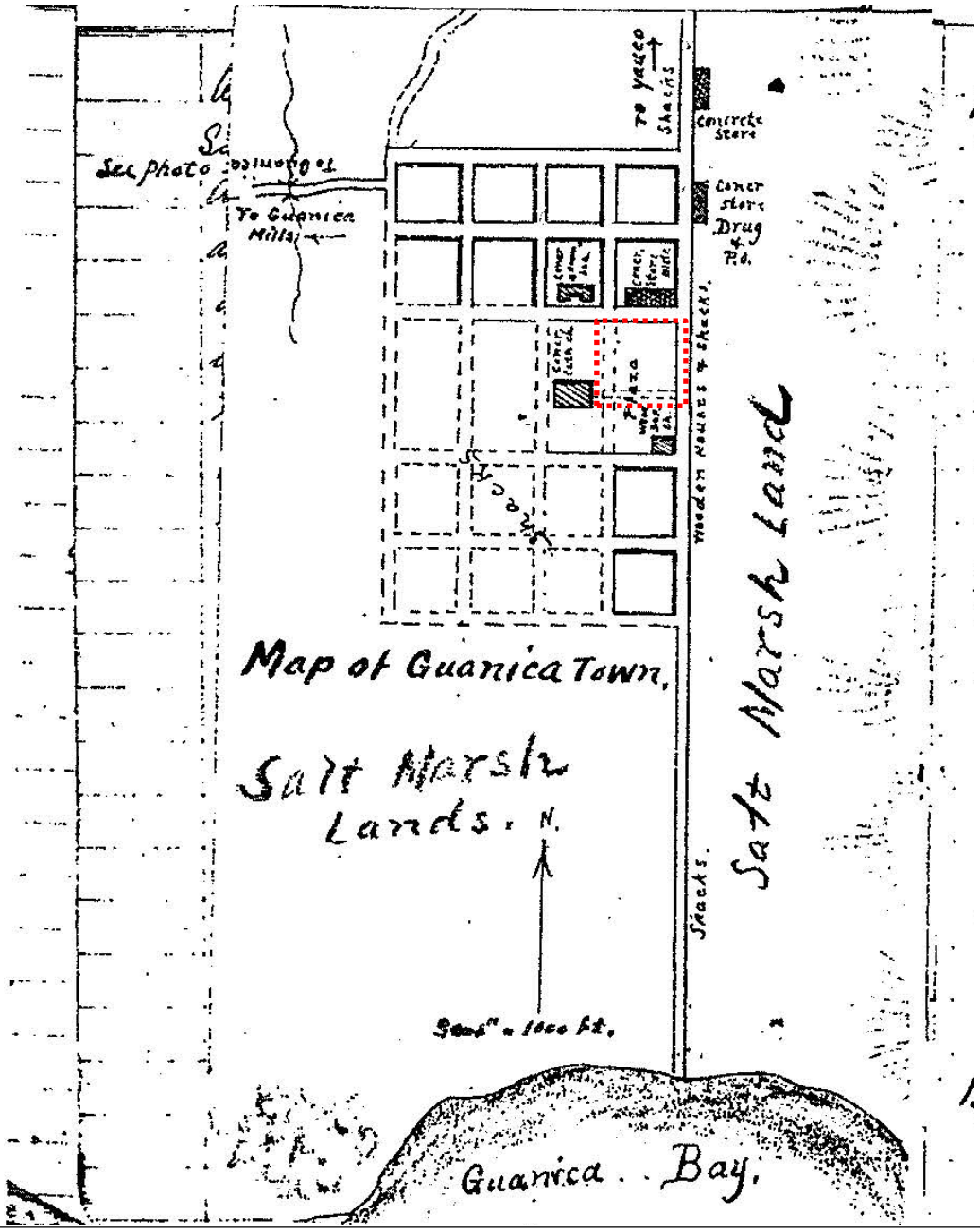
Project Location - APE (Historic Context 03) (Google Earth 2004)

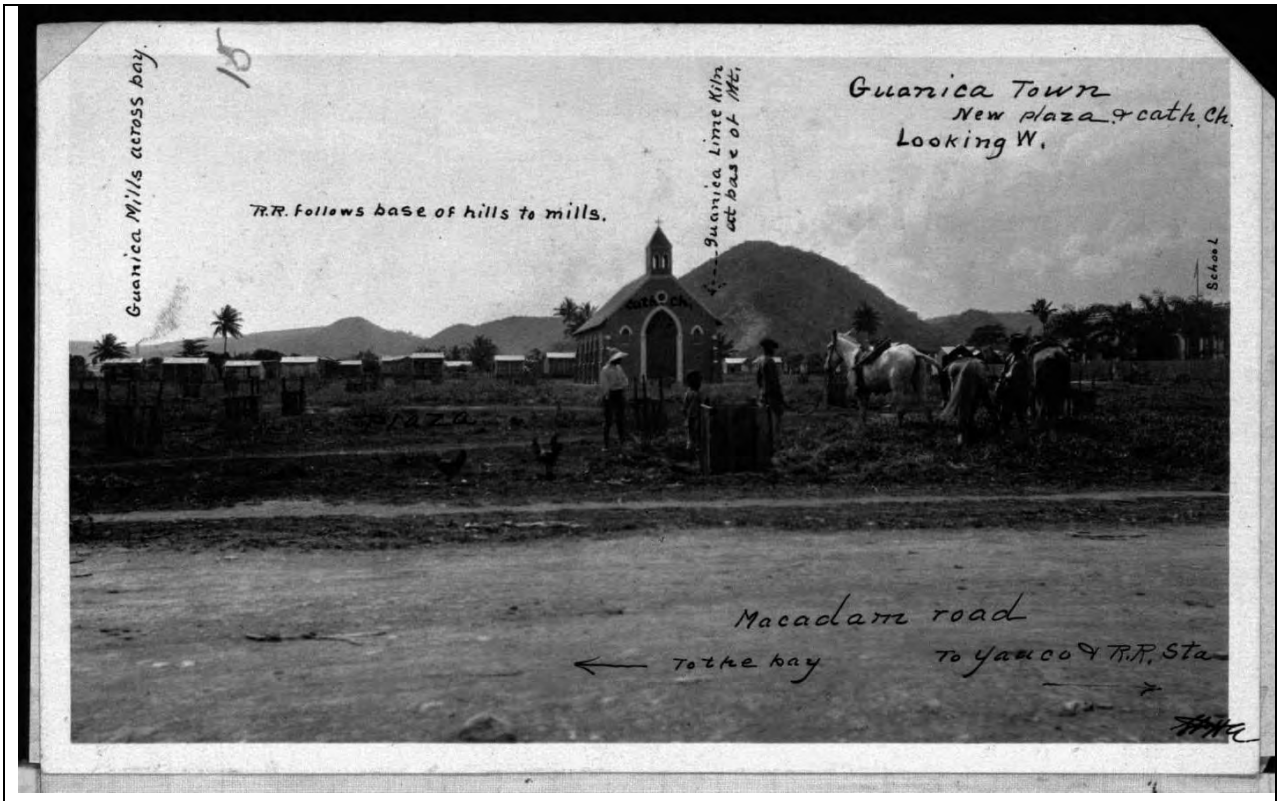


Project Location – APE (Historic Context 04) (Google Earth 2016)

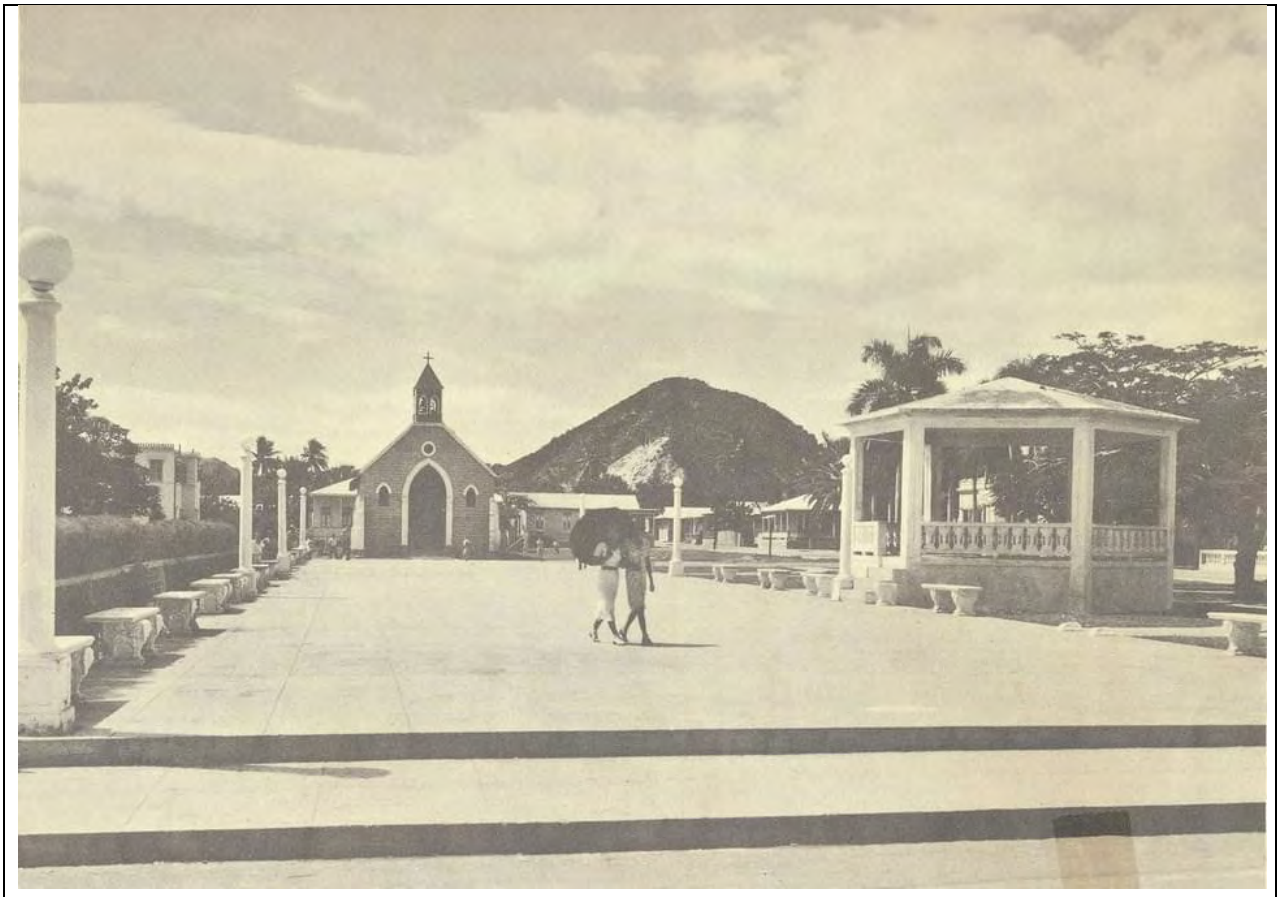


Project Location (Historic Context 05) - Guanica, PR existing condition sketch by John Armstrong (ca 1910)





Historic Context Image #06	**Description:** Black & white photo depicting Guanica town square, looking from main road (25 de Julio Street) toward west from the Diary of John Armstrong ca. 1910

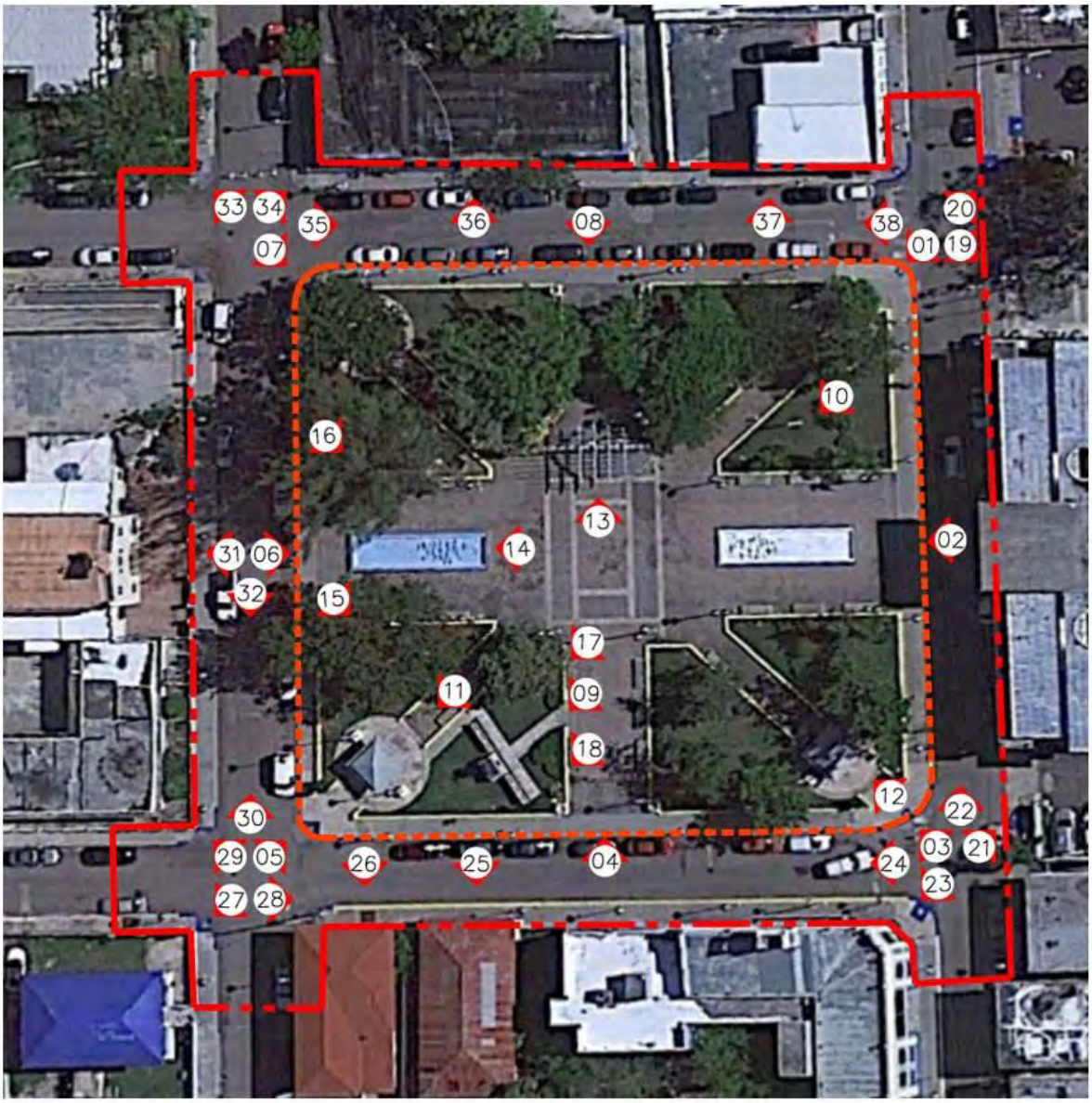


Historic Context Image#07	**Description:** Black and white photo of Guanica Town Square from 25 de Julio Street looking West, ca. 1940.



Historic Context Image# 08	**Description:** Black and white photo of Guánica Town Square from 25 de Julio Street looking West, ca. 1960. (Rebuilt San Antonio Abad church in background.)

Architectural Photo Survey Key Plan (Google Earth 2022)





Project Location **Photo #01**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northeast corner of 25 de Julio and Del Rosario streets, looking northwest. (Low walls to be removed for new landscaping.)



Project Location **Photo #02**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 25 de Julio Street, looking west. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping.)



Project Location Photo #03	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southeast corner of 25 de Julio and 65 de Infanteria streets, looking southwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #04	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Del Rosario Street, looking north. (Low walls & bandshell to be removed for new pavements & landscaping.)



Project Location Photo #05	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southwest corner of Del Rosario and Dr Santiago Veve streets, looking northwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #06	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Dr Santiago Veve street, looking east. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping. Modern city hall at background to be demolished after 2020 earthquake, not included in this undertaking.)

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Project Location Photo #07	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northwest corner of Dr Santiago Veve and 54 Infanteria streets, looking southeast. (Low walls to be removed for new landscaping.)

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination - Architecture	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Project Location Photo #08	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 65 Infanteria street, looking south. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #01	**Description:** Modern Veterans monument located at southwest sector of square, to be relocated, reincorporated into undertaking. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #02	**Description:** Contemporary Altrusa monument located at northeast planting area to be relocated, reincorporated into undertaking**.** (Low walls to be removed for new landscaping.)



Existing project Features Photo #03	**Description:** Existing southwest kiosk to remain, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #04	**Description:** Existing southeast kiosk to remain, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #05	**Description:** Existing concrete bandshell to be demolished for new pavements and landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #06	**Description:** Existing concrete water fountains to be demolished to be demolished for new pavements and landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #07	**Description:** Existing concrete water fountain pump shed to be demolished, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #08	**Description:** Existing electrical substation & mater bank to remain, to be concealed into new landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #09	**Description:** Existing precast concrete benches to be removed, stored, and relocated during undertaking, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #10	**Description:** Existing metal lampposts to be removed and provided to Owner for future retrofit, reuse. Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #01	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking south along 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #02	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking from northeast corner of Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #03	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking northeast toward modern City Hall. Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #04	**Description:** 25 de Julio Street, facing north. Modern city hall at right, facing west toward Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #05	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking southwest toward old City Hal. Juan Jimenez Mesa square at right (not shown) Guanica, PR.



Viewshed Photo #06	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking west. Old City Hall facing north toward Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #07	**Description:** Del Rosario street residential structure facing North Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #08	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing north toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #09	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing northeast toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #10	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing east. Juan Jimenez Mesa square at left Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Viewshed Photo #11	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets institutional structure facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #12	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing north, Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #13	**Description:** San Antonio de Padua catholic parish church at Dr. Santiago Veve street facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Viewshed Photo #14	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets facing south, Jimenez Mesa square at left Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination - Architecture	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Viewshed Photo #15	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The James A Garfield Graded School facing southwest, toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #16	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The Maria Luisa McDougal School facing south, toward Juan Jimenez Mesa square (not shown) Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination - Architecture	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



Viewshed Photo #17	**Description:** 65 Infanteria Street facing east toward 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	



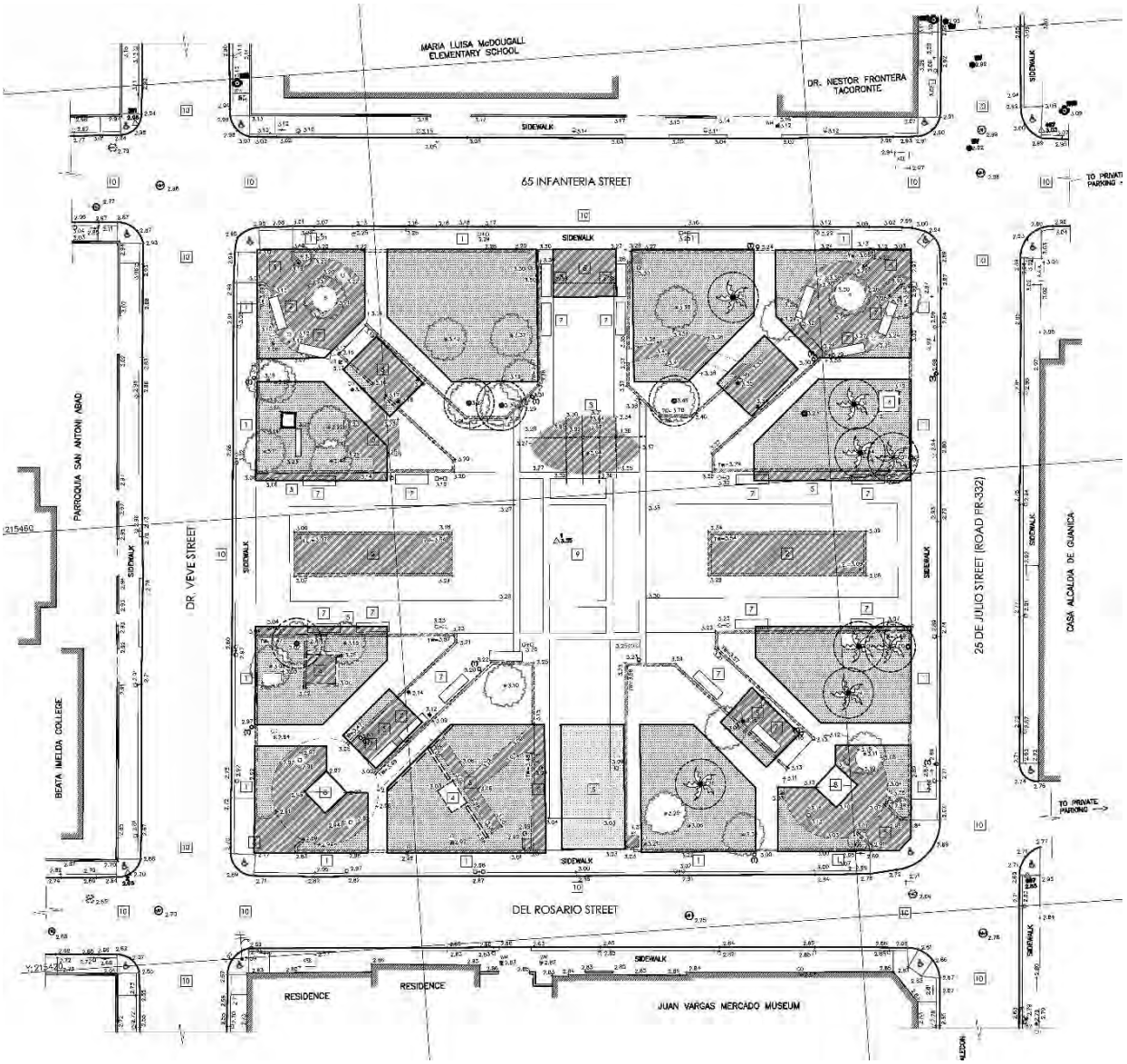
Viewshed Photo #18	**Description:** The Maria Luisa McDougal School at 65 Infanteria street facing south, toward Juan Jimenez Mesa square Guanica, PR.



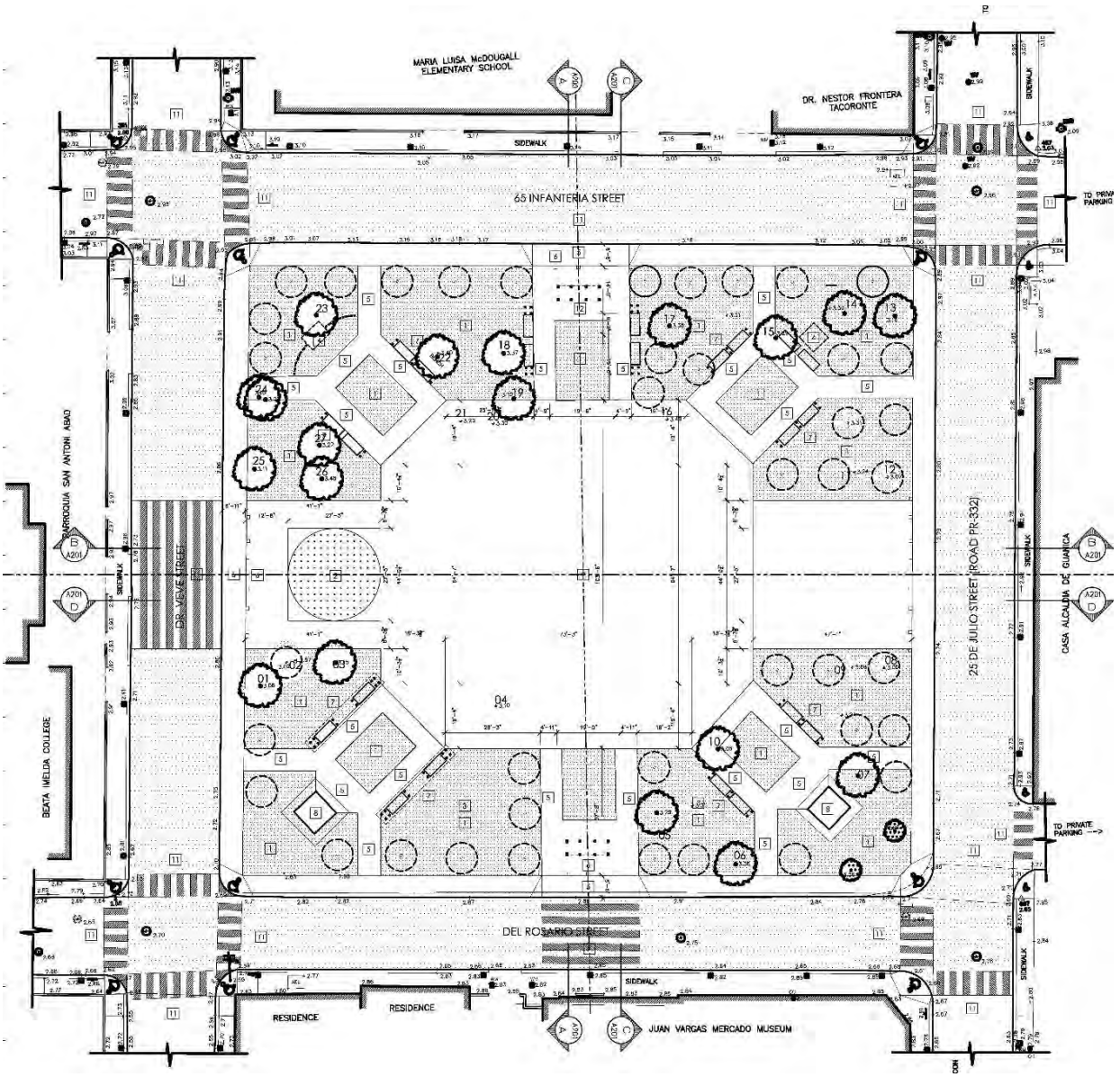
Viewshed Photo #19	**Description:** Corner of 65 Infanteria and 25 de Julio streets, medical office building at facing south toward Juan Jimenez Mesa square Guanica, PR.



Photo #20	**Description:** Corner of 65 Infanteria and 25 de Julio streets, facing west. Juan Jimenez Mesa square at left Guanica, PR.



Undertaking Exhibit # 01	**Description:** Existing condition/demolition layout. (Image provided by Applicant)



Undertaking Exhibit #: 02	**Description:** Proposed improvements layout (Image provided by Applicant)



Undertaking Exhibit #: 03	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 04	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 05	**Description:** CGI renderings (Image provided by Applicant)

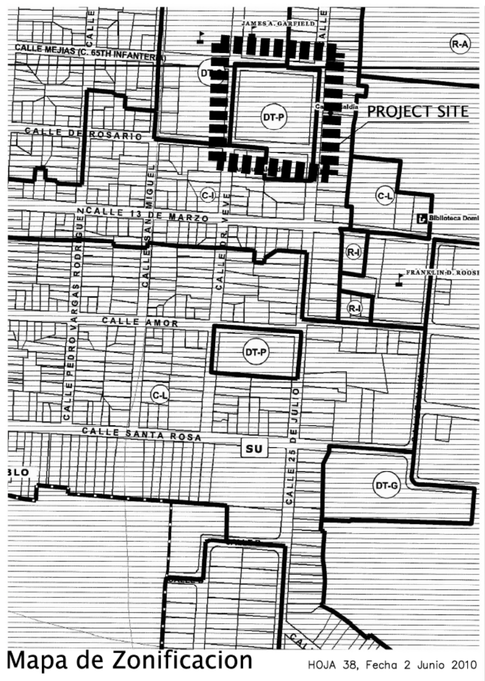


Undertaking Exhibit #: 06	**Description:** CGI renderings (Image provided by Applicant)



Mapa de Inundabilidad

72000C19601 NOV 18 2009



Mapa de Zonificacion

HOJA 38, Fecha 2 Junio 2010

Symbols Legend

- Existing Conc. Wall or Conc. Column
- Concrete Wall or Conc. Column
- Concrete Block Wall
- Metal as Marked
- Gypsum Board Wall
- Earth
- Wood Framing (Continuous)
- Plywood
- Insulation, Rigid
- Lath & Plaster
- Carpet
- Letter or Number Designation / Building Ext Elevation / Drawing Number
- WS — Letter or Number Designation / Building Wall Section / Drawing Number
- BS — Letter or Number Designation / Building Section / Drawing Number
- Elevation Number / Interior Elevation / Elevation Number (A200)
- Letter or Number Designation / Detail (Other Drawing) / Drawing Number
- 100 — Room Number Identification
- Window Identification
- Door identification
- Action Item
- Revision Number
- Finish Floor Elevation
- Change in Floor Level
- AD — Area Drain
- Fence (Height & Material)
- Limit of Construction
- Property Boundary
- Match Line
- 2' X 2' Fluorescent Light Fixture
- Incandescent Downlight Fixture
- Track Light Fixture
- 2' X 2' RAR
- A/C Grille
- 14'-0" — Ceiling Height

Indice de Dibujos

Hoja / Descripcion

GENERAL
T-101 . . . TITLE SHEET & INDEX OF DRAWINGS
SU-101 . . . LAND & TOPOGRAPHY SURVEY

DEMOLITION
D-101 . . . DEMOLITION LAYOUTS
D-102 . . . SPARE
D-201 . . . SPARE
D-202 . . . SPARE

ARCHITECTURAL SITE
A-101 . . . ARCHITECTURAL LAYOUTS
A-102 . . . ARCHITECTURAL BLOWUPS
A-103 . . . ARCHITECTURAL BLOWUPS
A-104 . . . ARCHITECTURAL BLOWUPS
A-105 . . . SPARE

CIVIL/SITE
C-1 . . . CES PLAN
C-2 . . . CES DETAILS
C-3 . . . GEOMETRICAL SITE PLAN
C-4 . . . GEOMETRICAL DATA AND TABLES
C-5 . . . SITE DETAILS
C-6 . . . EXIST. TOPOGRAPHY, GRADING, SEWER PLAN
C-7 . . . STORM SEWER SYSTEM DETAILS
C-8 . . . WATER DISTRIBUTION SYSTEM PLAN
C-9 . . . WATER DISTRIBUTION SYSTEM DETAILS
C-9.1 . . . WATER DISTRIBUTION SYSTEM DETAILS

ELECTRICAL
E-000 . . . LEGENDS & NOTES
E-100 . . . ELECTRICAL SITE PLAN
E-200 . . . PANEL SCHEDULE

MECHANICAL
P-101 . . . WATER PLUMBING SITE PLAN
P-102 . . . PLUMBING BLOWUPS
PL-201 . . . PLUMBING NOTES, SCHEDULES & DETAILS

LANDSCAPE
LA-101 . . . PLANTING LAYOUTS
LA-201 . . . SPARE
LA-301 . . . SPARE

Abreviaciones

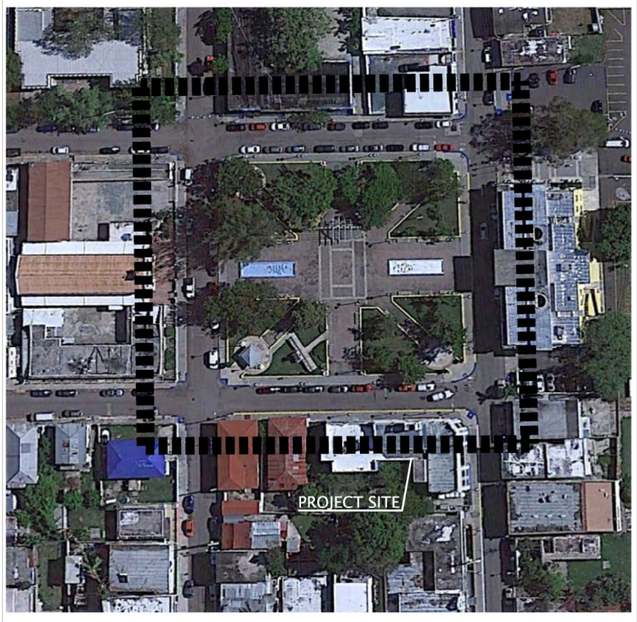
A/C	Air Conditioning	CLOS	Closet	GND	Ground	STL	Steel
ABV	Above	CMU	Conc. Masonry Unit	GYP	Gypsum	STL JST	Steel Joist
ACC	Access	CND	Conduit	GYP BD	Gypsum Board	STL PL	Steel Plate
AC TILE	Acoustical Tile	CNTR	Counter			STOR	Storage
AD	Area Drain	CO	Cleanout	H/C	Handicap(ped)	STRUCT	Structural
ADDL	Additional	COL	Column	HB	Hose Bibb	SUSP	Suspended
ADDM	Addendum	CONC	Concrete	HDWD	Hardwood	SUSP CLG	Suspended Ceiling
A/E	Architect / Engineer	COND	Condition	HDWE	Hardware	SYM	Symbol
AFF	Above Finished Floor	CONF	Conference	HGT	Height		
AFG	Above Finished Grade	CONSTR	Construction	HM	Hollow Metal	TEL	Telephone
AHU	Air Handling Unit	CONT	Continuous	HP	High Point	THRES	Threshold
ALT	Alternate	CONTR	Contract(or)			TMPD GL	Tempered Glass
ALUM	Aluminum	CP	Control Panel	INT	Interior	TOC	Top of Concrete
ANOD	Anodized					TOS	Top of Steel
AP	Access Panel	D	Drain	LP	Low Point	TOW	Top of Wall
APPROX	Approximate	DEMO	Demolition	LTG	Lighting	TYP	Typical
APVD	Approved	DET	Detail				
ARCH	Architect(ural)	DF	Drinking Fountain	MFR	Manufacturer	VAR	Varies
ASPH	Asphalt	DIM	Dimension	MISC	Miscelaneous		
ATS	Auto. Transfer Switch	DN	Down			W	Width
AVE	Avenue	DR	Door, Drive	OFF	Office	WH	Water Heater
AWG	American Wire Gauge			OPNG	Opening	WLD	Welded
		EJ	Expansion Joint			WT	Weight
BLW	Below	EL	Elevation	PCEM	Portland Cement		
BM	Beam	ENAM	Enamel	PLAM	Plastic Laminate		
BOT	Bottom	EQ	Equal	PNT	Paint		
BR	Bedroom	EQUIP	Equipment	PNTD	Painted		
BRZ	Bronze	EXH	Exhaust	PRKG	Parking		
BUR	Built up Roof	EXP	Expansion	PROP	Property		
BVL	Beveled	EXST	Existing				
BW	Both Ways	EXT	Exterior	QT	Quarry Tile		
CAB	Cabinet						
CARP	Carpet	FCU	Fan Coil Unit	REC	Recessed		
CB	Catch Basin	FD	Floor Drain	RECPT	Receptacle		
CEM	Cement	FEXT	Fire Extinguisher	REQD	Required		
CEM PL	Cement Plaster	FFE	Fin. Floor Elev.	RESIL	Resilient		
CER	Ceramic	FIN	Finish(ed)				
CER TILE	Ceramic tile	FIN FL	Finish Floor	SALV	Salvage		
CHAN	Channel	FIN GR	Finish Grade	SCHED	Schedule		
CIP	Cast in Place	FLR	Floor	SF	Square Foot		
CIR	Circle	FURN	Furniture	SHR	Shower		
CJ	Construction Joint			SLNT	Sealant		
CJT	Control Joint	GALV	Galvanized	SQ	Square		
CLG	Ceiling	GC	Gen. Contractor	SQ IN	Square Inch		
CLG HT	Ceiling Height	GL BLK	Glass Block	SST	Stainless Steel		
CLL	Contract Limit Line	GLZ	Glazing	STD	Standard		

Notas Generales:

1. The selection of the General Contractor (GC) and subcontractors is subject to the approval of the Owner.
2. The GC shall provide copies of all information requested by the Owner (i.e. bldg permits, insurance certificates, etc.) prior to beginning Work.
3. The GC shall comlpy with all aplicable codes including the 2012 IBC as well as local codes and ordinances, electrical and plumbing codes, ADA, UFAS, OSHA and any other requirement by Owner.
4. The GC shall submit shop dwgs of all fabricated objects for approval by the Architects / Engineers (A/E) prior to fabrication.
5. The GC shall verify all dimensions on the job siote with all bid documents, notes and dimensions shall be checked and verified with the A/E dwgs. Any discrepancy shall be brought to the immediate attention of the A/E before commencing Work so that necessary corrections are made.
6. Should unforseen conditions be encountered that affect design or function of project, investigate fully and submit an accurate, detailed written report to the A/E. While awaiting the A/E's response reschedule operations if necessary to avoid delay of overall project.
7. The GC agrees with the signing of the contract for construction that he will provide a one-yr warranty for materialas and labor against defects in workmanship, materials, and equipment.
8. The GC shall use only commercial grade materials (i.e. hardware, etc.) unless otherwise noted.
9. Color, texture, size or pattern of finish materials as schedules in drawings shall be selected by A/E.
10. Shop drawings shall be submited to A/E for approval, for all wood furniture such as cabinets, closet doors, counters, and others.
11. The GC shall be responsible of verifying dimensions and spaces where equipment, cabinets, doors, windows, etc. are to be installed before any material is ordered to manufacturers.
12. If GC finds apparent conflicting information over interdisciplinary dwgs/docs set after per bid clarifications period or cannot obtain clarifications from A/E in a timely matter, the GC shall bid with costliest item, and include a clarification note of such action for Owner and A/E consideration in bidding documents.

Imagen de Situacion del Proyecto

(NO A ESCALA)



Alcance de Proyecto

Urban improvements for town square remodeling & upgrade.

Codigos & Leyes Aplicables

reglamentos Aplicables:
International Building Code - 2018
"Reglamento Conjunto de Permisos para Obras de Construccion y Usos de Terrenos" PR Planning Board - 2010
Reglamanto Plan Ordenacion Territorial Municipal (where applies)
American with Disasabilities Act (where applies)

Tipo de Construccion Tipo X
Grupo de Ocupacion X
Niveles de Construccion 1
Extintores de Incendio Manuales 1

Directorio de Proyecto

ARQUITECTOS PROYECTISTAS/GERENTES
TRG ARCHITECTS PSC
BOX 9023795 SAN JUAN PUERTO RICO 00902-3795
TEL. (787) 723-4252

ELECTRICAL, COMMUNICATIONS & SIGNALING ENGINEERS
JUAN R REQUENA ASSOCIATES PSC
PO BOX 191587 SAN JUAN, PR 00919-1587
(787) 763 0655

MECHANICAL, PLUMBING & FIRE PROTECTION ENGINEERS
ADG ENGINEERING
1055 KENNEDY AVENUE SUITE 703 ILA BUILDING
SAN JUAN, PUERTO RICO
(787) 749 8747

CIVIL ENGINEERING CONSULTANT
KLEIN ENGINEERING
CIVIL ENG. CONSULTING SERVICES
500 AVENIDA MUNOZ RIVERA
OFICINA 221-A
HATO REY, PR 00918
(787) 644 4789

Desarrollo de Documentos de Cosntruccion para las Mejoras a:

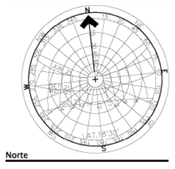
Plaza Manuel Jimenez Mesa

Barrio Pueblo Municipio de Guanica, Puerto Rico

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL DE TRG. CUALQUIER USO, REPRODUCCION O FOTOCOPIADO SIN EL PERMISO ESCRITO DE TRG ARCHITECTS PSC ESPECIFICAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.
2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS O SUPERVISO SU PREPARACION Y CERTIFICO QUE ESTOS PLANOS CUMPLEN CON EL INTENSO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL RECLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DESCRITA EN ESTOS PLANOS Y ESPECIFICACIONES SI NO CUMPLEN O ESTAN MAL DISENADOS CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE SEPTIEMBRE DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY NOTARIAL", SEGUN ENMENDADA, SEGUN APLICA. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTOS O TAMPACIDOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPr.



Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Cuanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

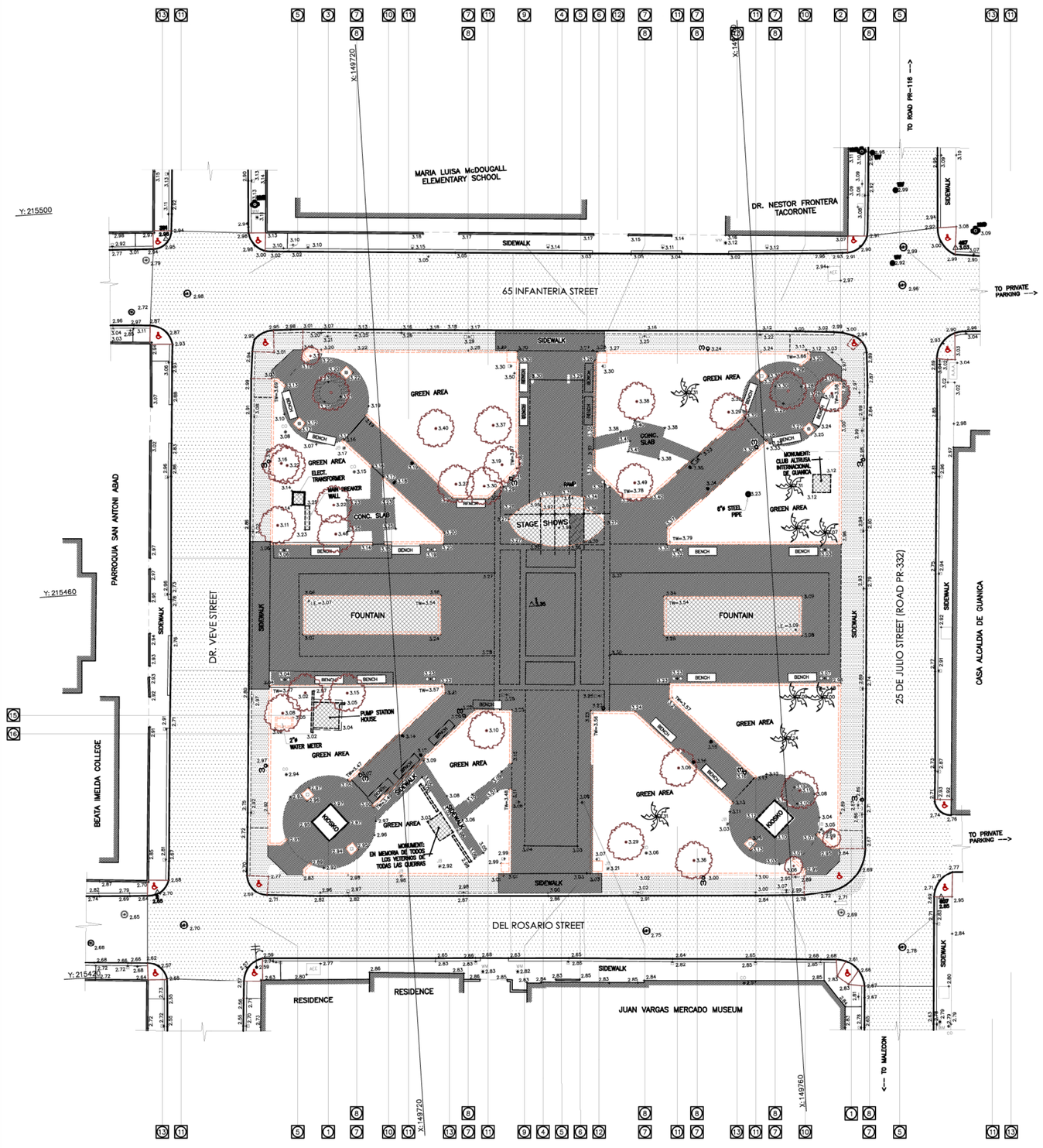
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	01.15.23	Desarrollo Diseno Preliminar	
03	07.15.23	Desarrollo Documentos Construccion	

Desarrollo de Diseno Esquematico

Hoja de Tirulo
Indice Dibujos

drawn by ER
checked by ER
file 22260 T101
plot scale 1=1
trg num 22260

drawing sheet number:
T101



Planta demolicion propuesta

Scale 1/4" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

- A PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.
- B TEMPORARY CONSTRUCTION BARRICADE, AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.
- C REINFORCED CONCRETE TRANSITION BORDER, AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.
- D NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.
- E NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.
- F EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.
- G REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.
- H REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE. PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.
- I STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.
- J NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.
- K NEW GRANITE BOLLARDS, REFER TO NOTES & DETAILS.
- L NEW CONTAINER AREA, REFER TO NOTES & DETAILS.
- M NEW INTERPRETATIVE PEDESTAL, (BY OTHERS)
- N REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED, REFER TO NOTES & DETAILS.

NEW PAVEMENT LEGEND

NEW ROADWAY ASPHALT PAVEMENT RESURFACING.

NEW ROADWAY CEMENTITIOUS FINISH.

NEW PEDESTRIAN CROSSING STRIPS.

NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.

NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL DE TRG. CUALQUIER USO, REPRODUCCION O MODIFICACION PARA PROPOSITOS DIFERENTES A LOS ORIGINALMENTE EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13956, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS O QUE ESTOS PLANOS FUERON PREPARADOS BAJO MI SUPERVISION Y QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ESTOY CONSCIENTE QUE CUALQUIER VIOLACION A LAS DISPOSICIONES DE ESTOS PLANOS Y ESPECIFICACIONES SE VIA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY PARA LA, SEGUN ENMENDADA, SEGUN APLICE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

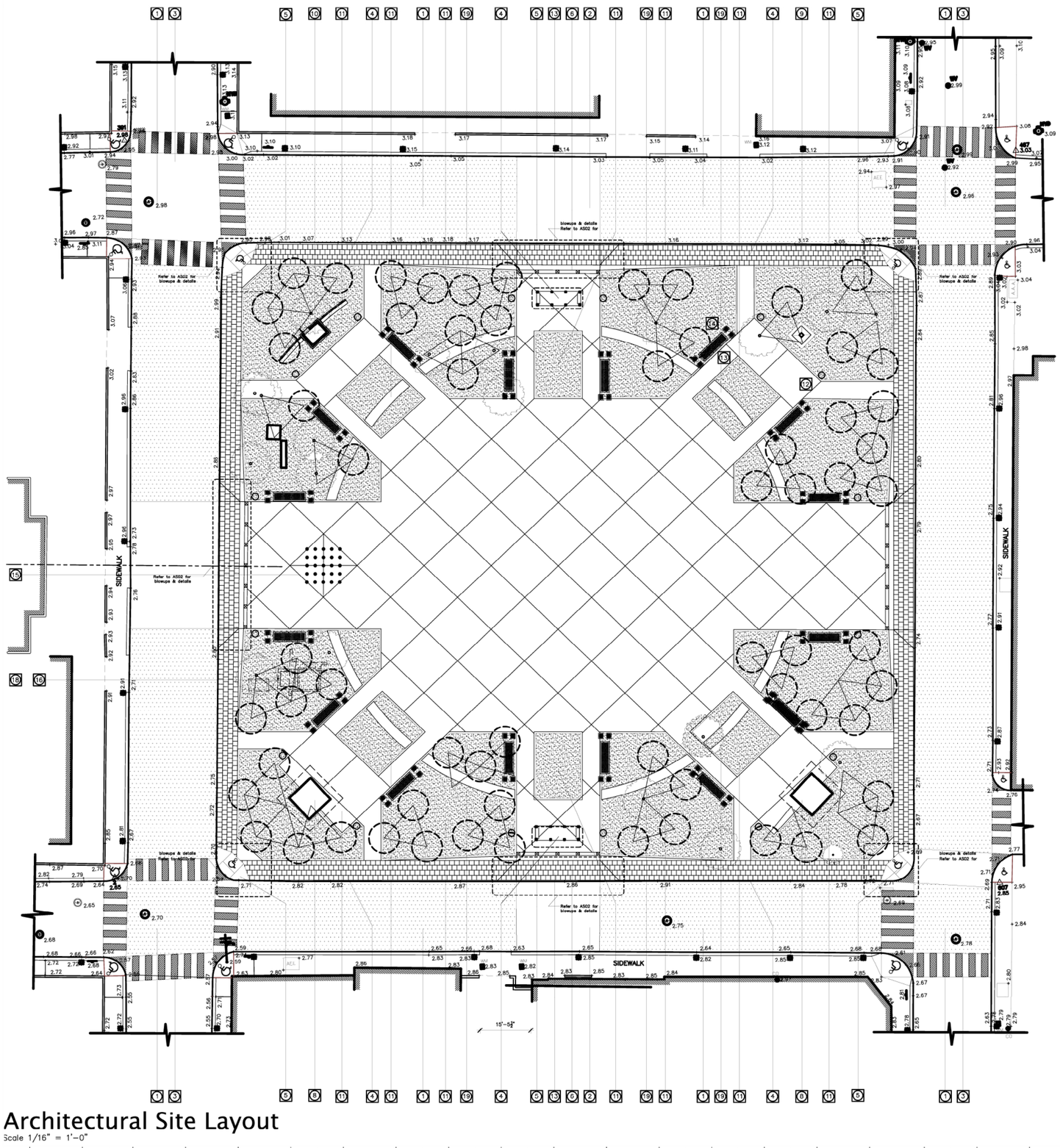
#	fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
02	01.19.23	Desarrollo Diseno Preliminar	ER
△	07.14.23	Desarrollo Docs Construccion	ER

Desarrollo de Diseno Esquematico

Plantas de Sitio demolicion

drawn by ER
checked by ER
file 22260 DS01
plot scale 1=1
trg num 22260

drawing sheet number:
DS01



Architectural Site Layout

Scale 1/16" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. NEW ASPHALT ROADWAY PAVEMENT AREAS.
2. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
3. NEW PEDESTRIAN CROSSING STRIPS.
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
8. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
9. "ALTRUSA" MONUMENT TO BE RELOCATED.
10. GUANICA VETERANS MONUMENT TO BE RELOCATED, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
11. NEW LANDSCAPING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN, AND SHALL COORDINATE TRESS TO BE REMOVED & RELOCATED OR DISCARDED. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (REFER TO LANDSCAPING PLAN)
12. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS. (REFER TO LANDSCAPING PLAN)
13. NEW METAL PERGOLATED GARDEN GAZEBO. (SEE DETAILS)
14. NEW WASTE RECEPTACLES MODEL "PAPER-INA" BY ESCOFET OR APPROVED EQ. (16 UNITS)
15. NEW CONCRETE BENCHES, MODEL "MAYO" BY ESCOFET OR APPROVED EQ. (16 UNITS) COORDINATE WITH EXISTING UNITS.
16. NEW METAL PERGOLAS MODEL VIA-LACTEA BY ESCOFET OR APPROVED EQ. (16 UNITS, REFER TO DETAILS.)
17. NEW WALK THRU FOUNTAIN FEATURE FIAC SERIES 2000 BY FOUNTAIN PEOPLE INC. (25 NOZZLES) OR APPROVED EQ.
18. NEW WALK THRU FOUNTAIN SELF DBBV-SERIES DIRECT BURIAL VAULT SYSTEM BY FOUNTAIN PEOPLE INC. OR APPROVED EQ.
19. NEW WATER CISTERN.
20. NEW LIGHT FIXTURES. (REFER TO ELECTRICAL DRAWINGS)
21. NEW PEDESTRIAN TRAIL.(REFER TO LANDSCAPING PLAN)
22. SPARE.

NEW PAVEMENT LEGEND

- NEW ROADWAY ASPHALT PAVEMENT RESURFACING.
- NEW ROADWAY CEMENTITIOUS FINISH.
- NEW PEDESTRIAN CROSSING STRIPS.
- NEW SIDEWALK GRANITE STONE TILE FINISH, A S PER DETAILS.
- NEW CEMENTITIOUS PAVEMENT FINISH, AS PER SPECS. ARTICULATION JOINTS AS PER DETAILS.

trg architects
Planning Design Interiors
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE PARTE O LA TOTALIDAD DEL MISMO QUEDA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. REIDS MARTINEZ, LICENCIA NUMERO 13556, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES DE LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA LEY NUM. 173 DE 12 DE AGOSTO DE 1988, SEGUN HA SIDO ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA. LEY NUM. 76 DE 5 DE JULIO DE 1976, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FRAUDULENTA EN RELACION CON LO ANTES EXPUESTO PUEDE SER CASTIGADO CON PENA DE CARCEL, MULTA O AMBAS A LA DISCRECION DE LA CORTE. POR MI NO AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPE.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

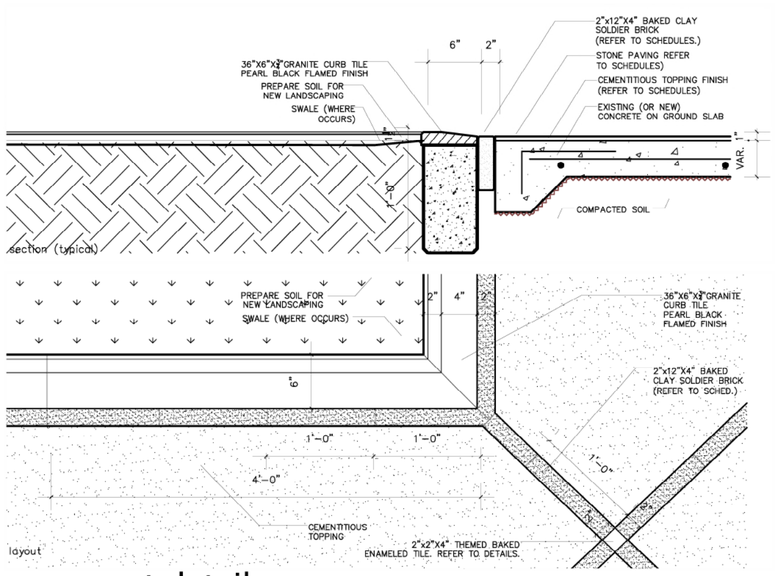
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquemalico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Plantas Arquitectonicas Propuestas

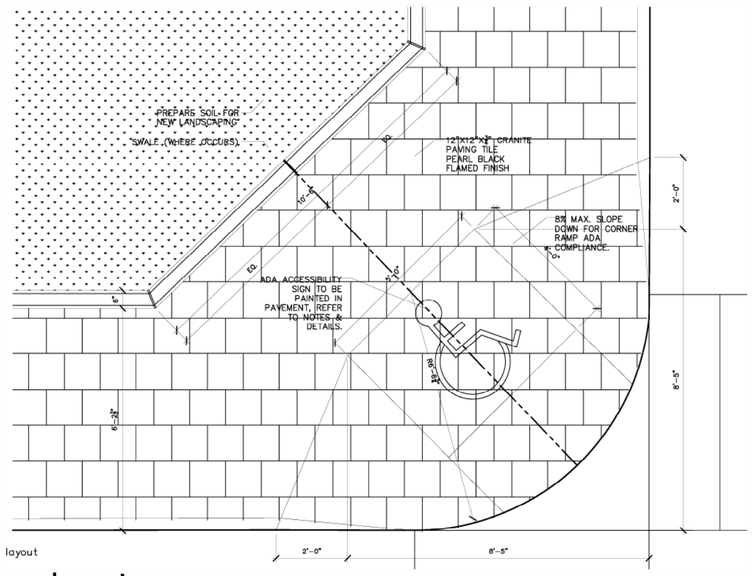
drawn by ER
checked by ER
file 22260 AS01
plot scale 1=1
trg num 22260

drawing sheet number:
AS01



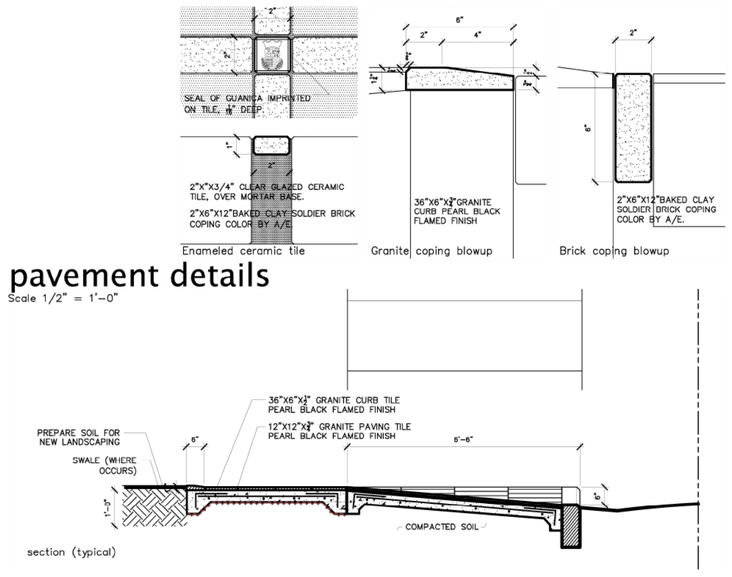
pavement detail

Scale 1 1/2" = 1'-0"



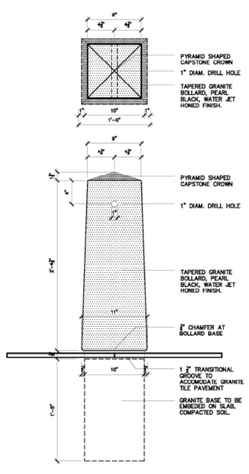
pedestrian corner ramp

Scale 1/2" = 1'-0"



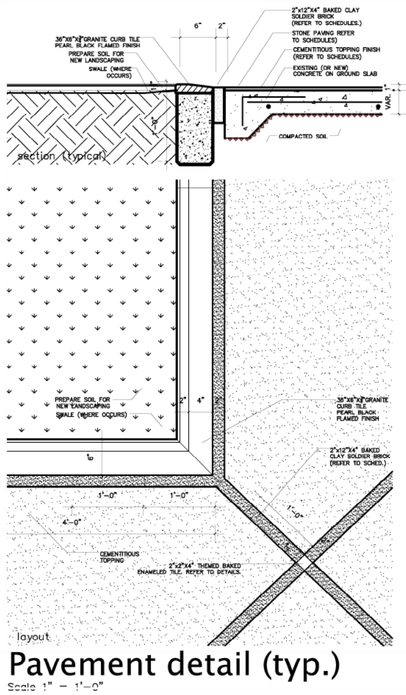
pavement details

Scale 1/2" = 1'-0"



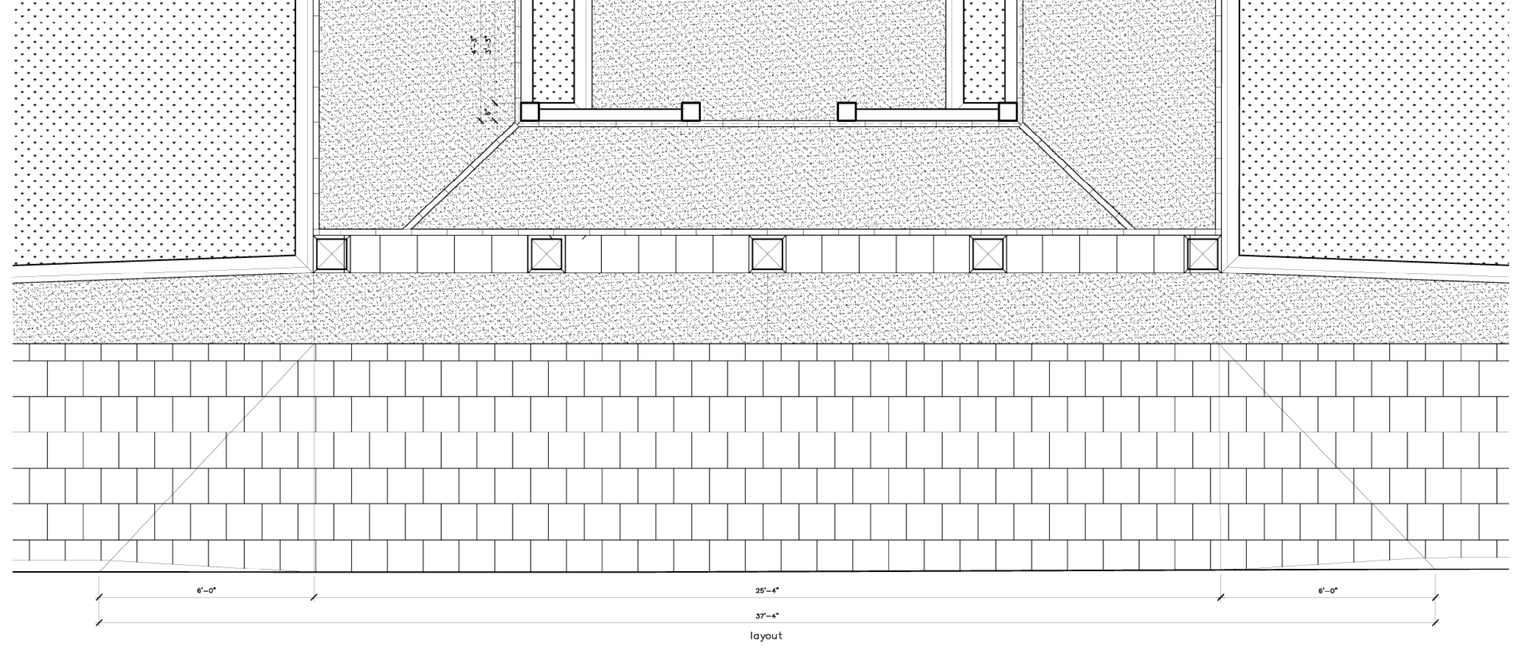
Stone bollard

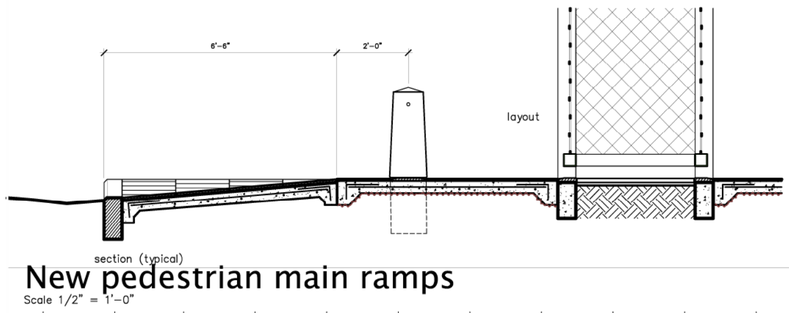
Scale 1" = 1'-0"



Pavement detail (typ.)

Scale 1" = 1'-0"





New pedestrian main ramps

Scale 1/2" = 1'-0"

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL ARCHITECTS PVC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESAMENTE PROVISTO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS O SUPERVISO SU PREPARACION Y QUE, HABIENDO EXAMINADO LOS MISMOS, ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. LA CONSTRUCCION DE LAS OBRAS DESCRITAS EN LOS MISMOS DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:

REMODELACION PLAZA MANUEL JIMENEZ MESA

Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

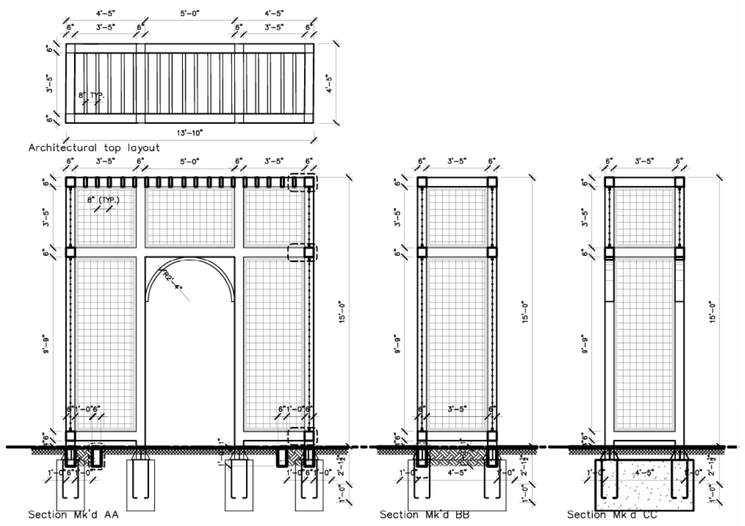
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

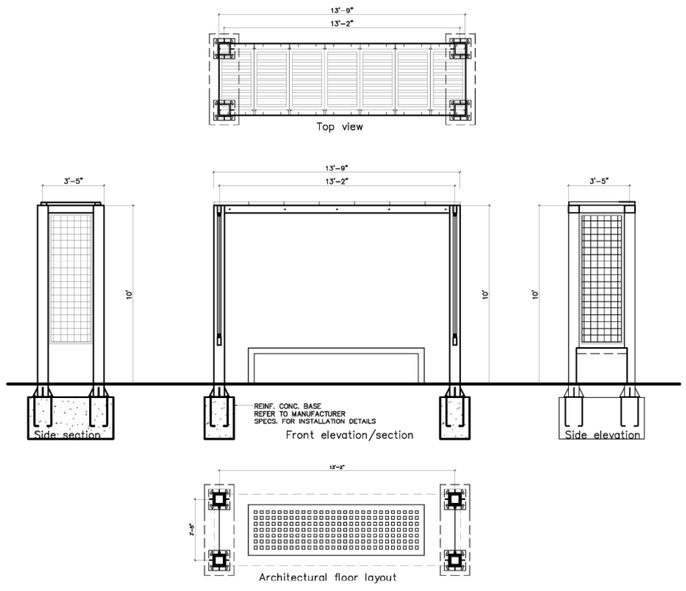
Desarrollo Documentos Construccion

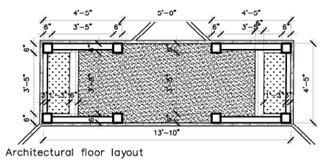
Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS02
plot scale 1=1
trg num 22260

drawing sheet number:
AS02





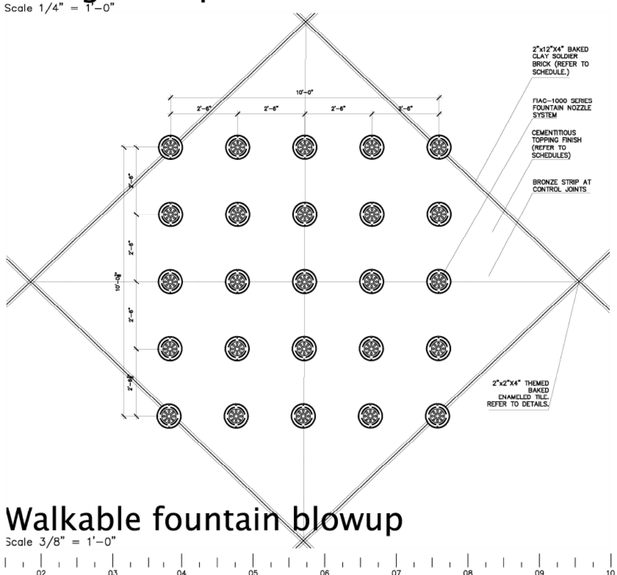


New garden pavilion

Scale 1/4" = 1'-0"

New pergola at relocated bench

Scale 1/4" = 1'-0"



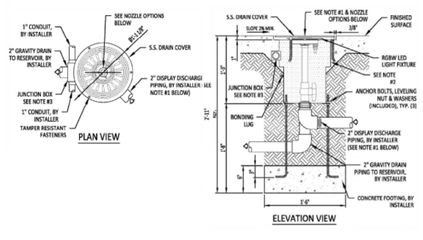
Walkable fountain blowup

Scale 3/8" = 1'-0"

FIAC-1000 Fountain-In-A-Can Fountain Nozzle System

Description information:
FIAC-1000 Series UL Listed Fountain-in-a-Can is a "pour in place" assembly containing a flush mount spray effect and 360 degree illuminating LED light fixture. The assembly can be utilized for plaza style water features or may be used for interactive splash pads.

Product specification:
FIAC-1000 Series UL Listed Fountain-in-a-Can, a "pour in place" flush mount spray effect with 360 degree light
fixture. The assembly includes a stainless steel housing with 1/4" thick stainless steel drain cover and contains
1. interchangeable fountain nozzle, 360-degree 24V, 36 Watt, LED ring light with colored RGBW diodes, manual adjustment valve, junction box, bonding lug, 2" inlet connection, 2" drain connection, and (2) 1" conduit connection for light. Assembly is shipped with (3) anchor bolts, leveling nut & washers.



Fountain nozzle system

Scale 3/8" = 1'-0"

ARCHITECTURAL SITE KEY NOTES:

1. EXISTING KIOSKS TO REMAIN. COORDINATE WITH OWNER & PROTECT FACILITIES DURING WORK
2. REFER TO DETAILS FOR RELOCATED "ALTRUSA" MONUMENT.
3. RELOCATED GUANICA VETERANS MONUMENT, COORDINATE WITH OWNER, MANUFACTURER JULISSA CASTINGS OR APPROVED EQ. FOR PROPER REPAIR & RELOCATION TO NEW BASE. (SEE DETAILS)
4. NEW SIDEWALK PAVEMENT SURFACES. (SEE DETAILS)
5. NEW ADA COMPLIANT RAMPS. (SEE DETAILS)
6. NEW GRANITE VEHICULAR CONTROL BOLLARDS. (SEE DETAILS)
7. NEW PLANTING AREAS TO BE RECONFIGURED. G.C. SHALL PROTECT EXISTING TREES TO REMAIN. PREPARE SURFACES FOR NEW LANDSCAPING IMPROVEMENTS. (SEE DETAILS)
8. NEW LANDSCAPING AREAS (SEE DETAILS)
9. NEW METAL GAZEBO. (SEE DETAILS)
10. NEW SQUARE CEMENTITIOUS PAVEMENT. (REFER TO DETAILS.
11. NEW PEDESTRIAN CROSSING STRIPS.
12. NEW CEMENTITIOUS ROADWAY PAVEMENT AREAS.
13. NEW ASPHALT ROADWAY PAVEMENT AREAS.
14. NEW PLAY YARD AREAS & FIXTURES, REFER TO NOTES & DETAILS.
15. NEW METAL PERGOLAS, REFER TO DETAILS.
16. NEW BENCHES AS PER SCHEDULES.
17. NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
18. NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

SITE IMPROVEMENT KEY NOTES

A. PROJECT LIMIT. G.C. SHALL FIELD VERIFY WITH OWNER REPRESENTATIVE PRIOR TO CONSTRUCTION START.

B. TEMPORARY CONSTRUCTION BARRICADE, AS PER MOT/OWNER STANDARDS AND CRITERIA. COORDINATE WITH OWNER.

C. REINFORCED CONCRETE TRANSITION BORDER, AS PER DETAILS. REALIGN ORIGINAL COBBLESTONES BEFORE CONSTRUCTION.

D. NEW GUTTER CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS. VERIFY SLOPES, ELEVATIONS & NOTIFY A/E OF ANY DISCREPANCY OBSERVED PRIOR COMMENCEMENT OF WORK.

E. NEW ROADWAY CONCRETE PAVERS TO BE INSTALLED, AS PER DETAILS.

F. EXISTING CONCRETE SLAB BASE TO BE REPAIRED AS PER SPECS, NOTES & DETAILS. G.C. SHALL NOTIFY A/E OF ANY CONCERN OR DISCREPANCY OBSERVED DURING PAVER REMOVAL AND CONCRETE SLAB SURFACE CLEANING ACTIVITIES.

G. REPLACE GRANITE STONE TILE AT SIDEWALK SURFACES, AS SHOWN OR WHERE NEEDED. G.C. SHALL PROVIDE MATERIAL, SLOPE & ELEVATION INSTALLATION TO MATCH EXISTING.

H. REPAIR ANY CRACK, BREAKAGE OR WEAR AT MANHOLE BASE. PAVER INSTALLATION TO MATCH MANHOLE ELEVATION.

I. STORM SEWER GRILLES TO BE REALIGNED, AS PER DETAILS. NEW PAVER INSTALLATION TO MATCH GRILLE SWALE ELEVATIONS.

J. NEW GRANITE STONE TILE SIDEWALK SURFACES, AS SHOWN.

K. NEW GRANITE BOLLARDS, REFER TO NOTES & DETAILS.

L. NEW CONTAINER AREA, REFER TO NOTES & DETAILS.

M. NEW INTERPRETATIVE PEDESTAL, (BY OTHERS)

N. REMOVABLE TRAFFIC CONTROL BOLLARD BASE TO BE INSTALLED, REFER TO NOTES & DETAILS.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD INTELECTUAL ARCHITECTS INC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO DE LOS MISMOS ESTA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES Y QUE EL PROFESIONAL QUE SUSCRIBE ESTOS PLANOS ES DE ENTERO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DE CONSTRUCCION. LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY NOTARIAL", SEGUN ENMENDADA, SEGUN APLICAE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACINTES O PARTE FACIOL O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPr.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

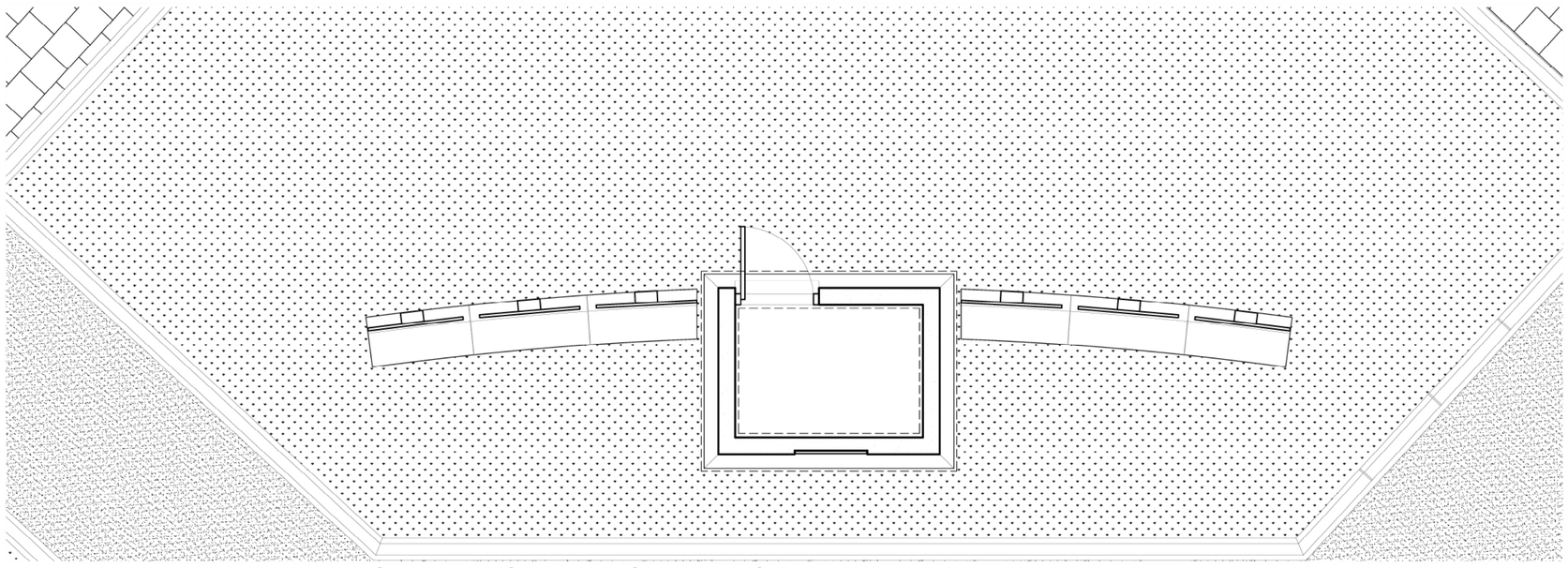
#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	07.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

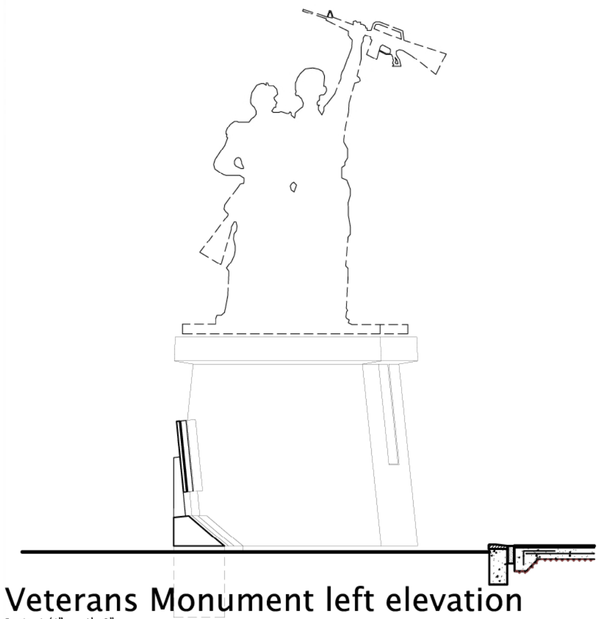
Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS03
plot scale 1=1
trg num 22260

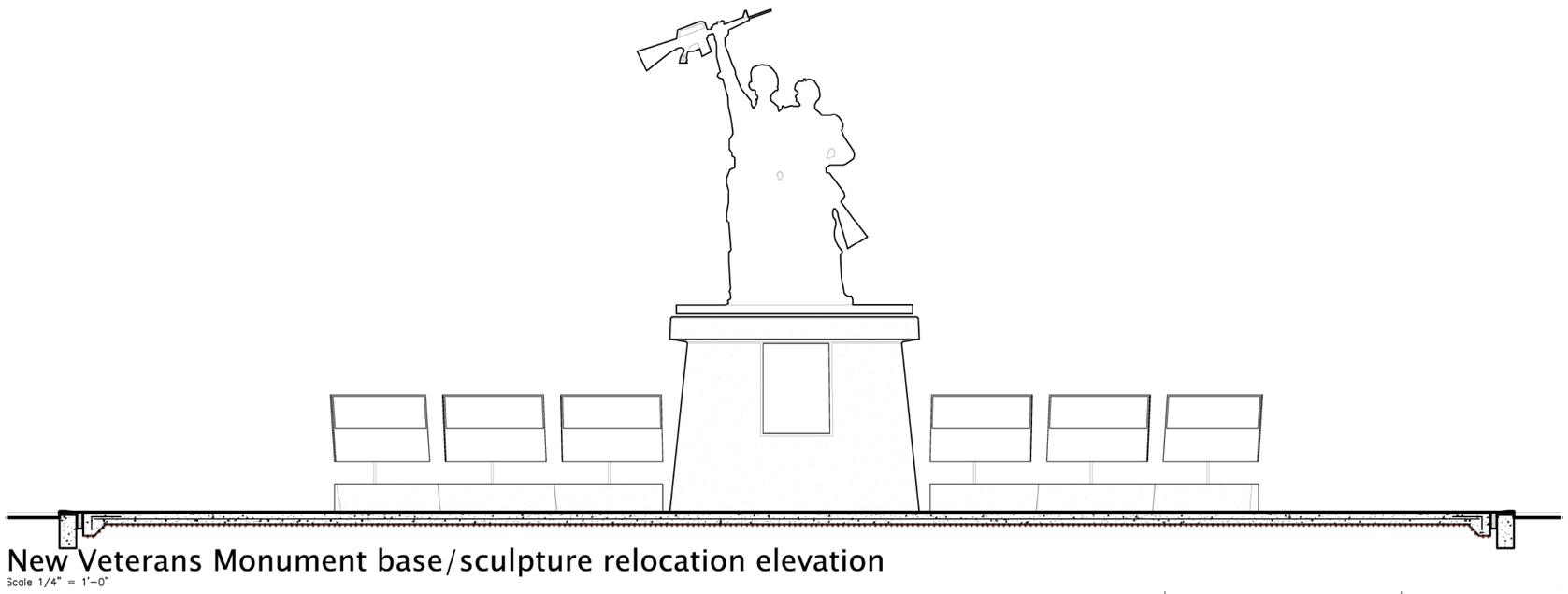
drawing sheet number:
AS03



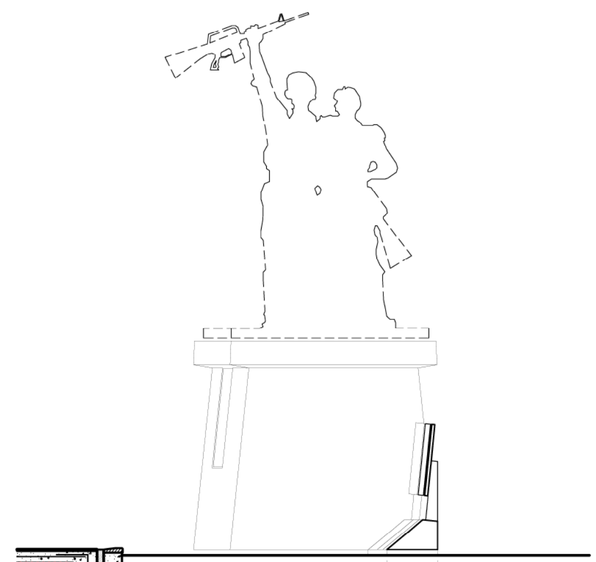
New Veterans Monument base/sculpture relocation layout
Scale 1/4" = 1'-0"



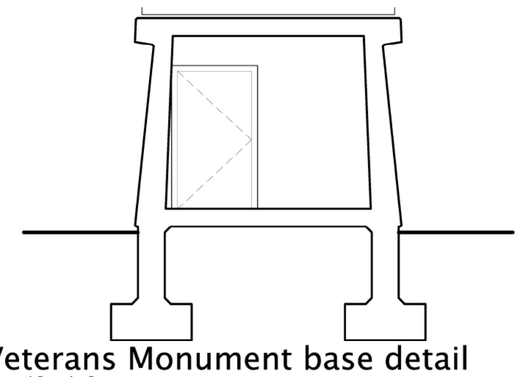
Veterans Monument left elevation
Scale 1/4" = 1'-0"



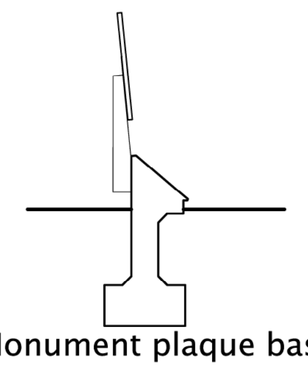
New Veterans Monument base/sculpture relocation elevation
Scale 1/4" = 1'-0"



Veterans Monument right elevation
Scale 1/4" = 1'-0"



Veterans Monument base detail
Scale 3/4" = 1'-0"



Veterans Monument plaque base detail
Scale 3/4" = 1'-0"

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PVC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO DE LOS MISMOS ESTA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13058, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y QUE, SEGUN MI LEAL SABER Y ENTENDER Y BAJO LA GRAVEDAD DEL JURAMENTO, ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CONCERNIENTES A LA CONSTRUCCION. ASIMISMO, QUE LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA, CONOCIDA COMO "LEY DEL REGISTRO, SEGUN ENMENDADA, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS ACENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPr.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	08.01.22	Desarrollo Diseno Esquematico	
02	04.15.23	Desarrollo Diseno Preliminar	
03	7.14.23	Desarrollo Documentos Construccion	

Desarrollo Documentos Construccion

Detalles Arquitectonicos Propuestos

drawn by ER
checked by ER
file 22260 AS04
plot scale 1=1
trg num 22260

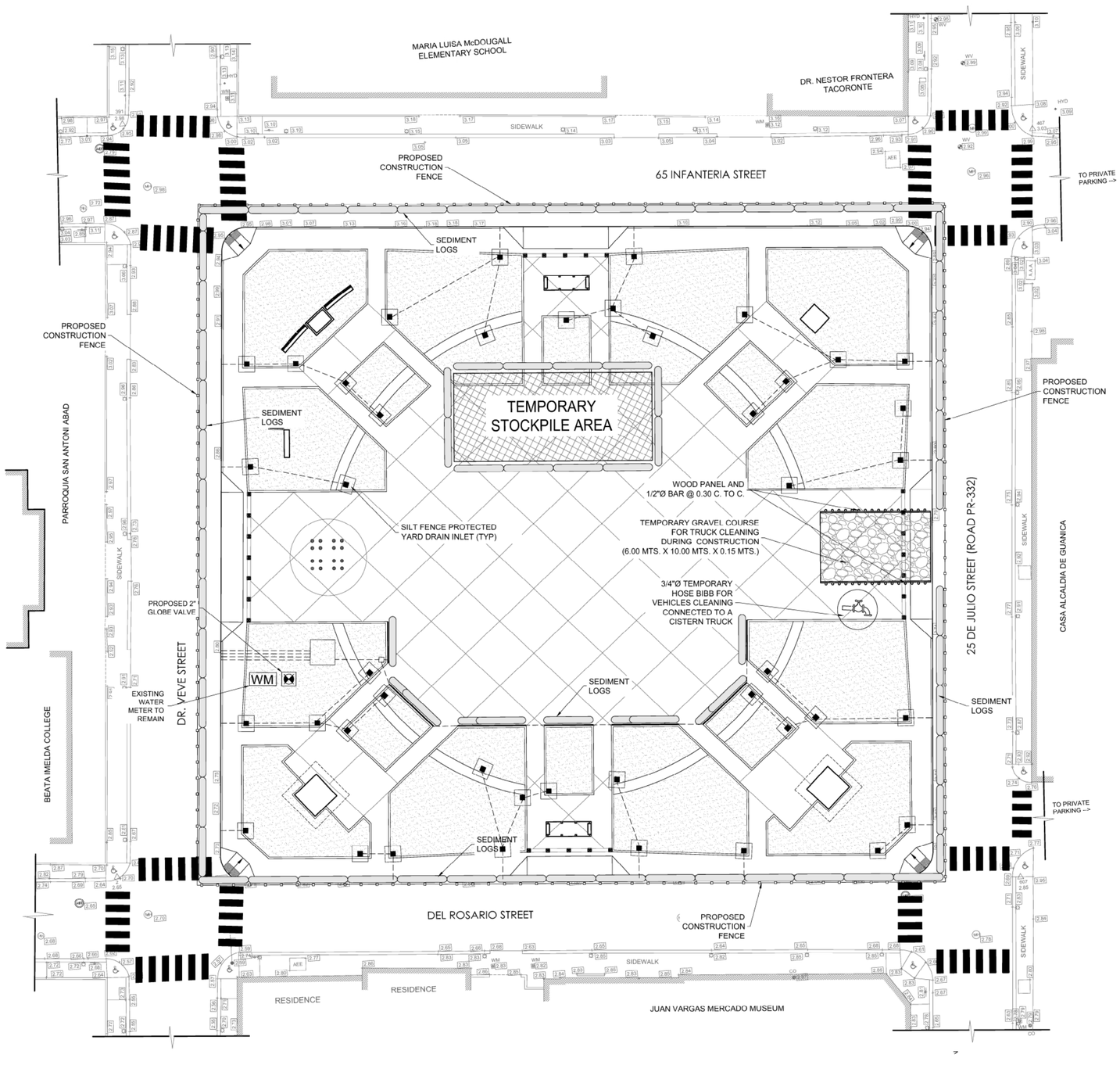
drawing sheet number:
AS04

CES PLAN NOTES:

1. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SWALES, AND CHANNELS THAT ARE NEAR THE PROJECT AREA PRIOR TO COMMENCING ANY EXCAVATION. PROTECTION FOR CATCH BASINS, SWALES, AND CHANNELS MAY BE REMOVED WHEN THE LOCAL INSTALLATION IS COMPLETED. SEE INSTALLATION DETAILS IN THESE DRAWINGS.
2. CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL AT THE NEAREST APPROVED FACILITY NO LATER THAN TWO (2) CALENDAR DAYS AFTER REMOVAL.
3. CONTRACTOR SHALL RESTORE ALL PAVED AREAS AND RE-SEED GRASS AREAS NO LATER THAN 24 HOURS AFTER WORK IS COMPLETED, OR AS INSTRUCTED BY THE ENGINEER.
4. CONTRACTOR SHALL INSPECT SEDIMENT BARRIERS AFTER EACH RAIN EVENT AND REPAIR THEM IMMEDIATELY AFTERWARDS. SEDIMENT SHALL BE REMOVED FROM THE BARRIERS WHEN THEY REACH HALF ITS HEIGHT.
5. CONTRACTOR SHALL REFER TO THE ER SERIES OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY'S (PRHTA) STANDARD DRAWINGS FOR ADDITIONAL DETAILS AND APPLICATIONS REGARDING EROSION AND SEDIMENT CONTROL.
6. NO FILL SHALL BE STORED WITHOUT COMPACTION FOR MORE THAN SEVEN (7) CALENDAR DAYS.
7. TRUCKS AND OTHER MOBILE CONSTRUCTION EQUIPMENT SHALL HAVE THEIR WHEELS CLEANED AT ESTABLISHED CLEANING AREAS BEFORE EXITING THE PROJECT.
8. ALL EROSION AND SEDIMENT CONTROL MEASURES PRESENTED ON THESE PLANS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVEMENT ACTIVITIES.
9. IF NEEDED, A DEWATERING BAG SHALL BE INSTALLED AT LOCATIONS INDICATED BY THE ENGINEER. THE DEWATERING BAG USED SHALL BE SEDCATCH OR SIMILAR. FOR ADDITIONAL INFORMATION, CONTACT SEDCATCH, WWW.SEDCATCH.COM.
10. SILT FENCES SHALL BE CONSTRUCTED USING GEOTEXTILE CLASS "A" IN COMPLIANCE WITH SPECIFICATION 712.
11. CONTRACTOR SHALL NOT PERFORM OIL CHANGES AT ANY TIME ON SITE. FURTHERMORE, IF ANY OIL SPILLS OCCUR DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL IMMEDIATELY SECURE THE AREA AND DISPOSE OF CONTAMINATED MATERIAL FOLLOWING ALL APPLICABLE STATE AND FEDERAL REGULATIONS.
12. EROSION AND SEDIMENT CONTROL PLAN MEASURES SHALL BE INSPECTED AND REPAIRED TO ORIGINAL CONDITIONS AFTER EACH RAINFALL EVENT THAT EXCEEDS 2" IN 24 HOURS.
13. SEDIMENT SHALL BE REMOVED, AND ALL EROSION CONTROL MEASURES RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO 1/2 OF THE DESIGN DEPTH.
14. EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA STABILIZED UPON COMPLETION OF WORK.

CES LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- PROPOSED CONSTRUCTION FENCE
- SEDIMENT LOG
- TEMPORARY GRAVEL COURSE FOR TRUCK CLEANING DURING CONSTRUCTION (7.30 MTS. X 10.00 MTS. X 0.15 MTS.)
- 3/4"Ø TEMPORARY HOSE BIBB FOR TRUCK CLEANING
- SILT FENCE AROUND YARD DRAIN INLET



CES PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 23124**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES, QUE HE SUPERVISADO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASIMISMO CERTIFICO QUE SOY EL DUEÑO DE LA OBRA DE CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y ANALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, CONOCIDA COMO LA "LEY DE LA CASA PROPIA", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN JUDICIAL Y DISCIPLINARIA POR LA CEPR.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

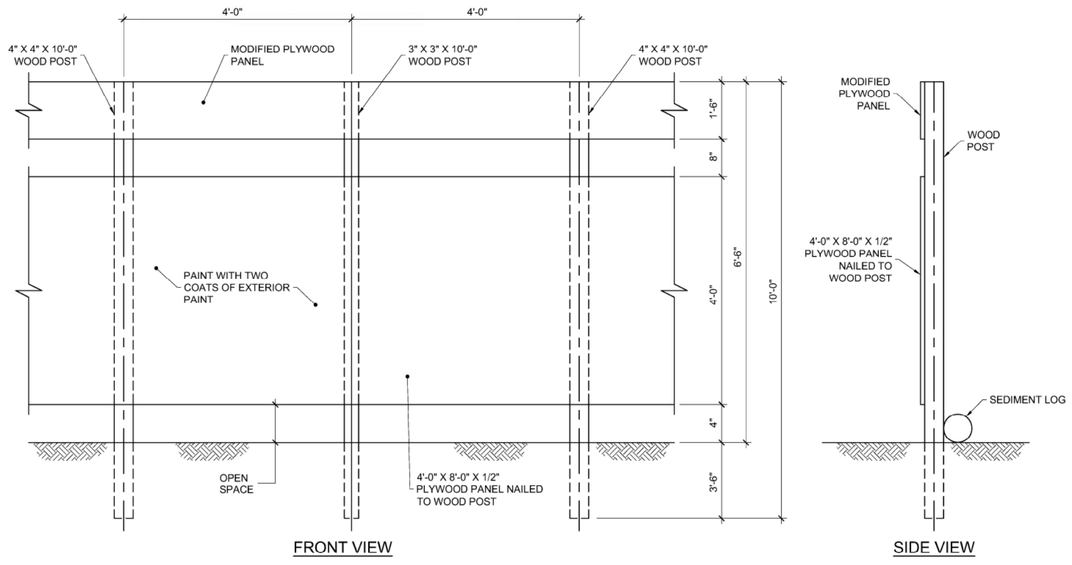
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

CES PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

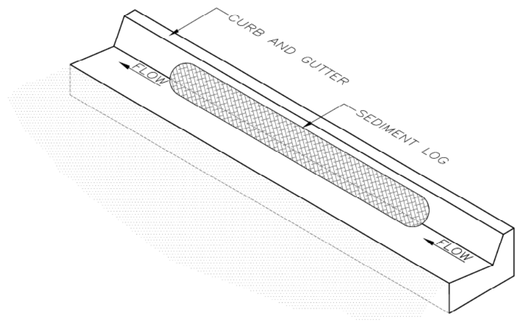
C-1



FRONT VIEW

SIDE VIEW

TEMPORARY CONSTRUCTION FENCE



SEDIMENT LOG DETAIL

POSTS: 2 X 4 WOODEN STAKE
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENING
FABRIC: IN ACCORDANCE WITH ASTM D 6461 LATEST EDITION

NOTES:

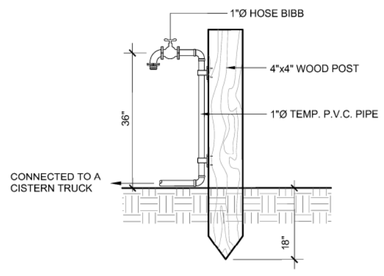
1. ATTACH THE WOVEN WIRE FENCE AND THE GEOTEXTILE TO EACH POST (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-THIRD THE HEIGHT OF THE FABRIC.
4. ALL SILT FENCE INLET PROTECTIONS SHALL INCLUDE WIRE SUPPORT.

MAINTENANCE NOTES:

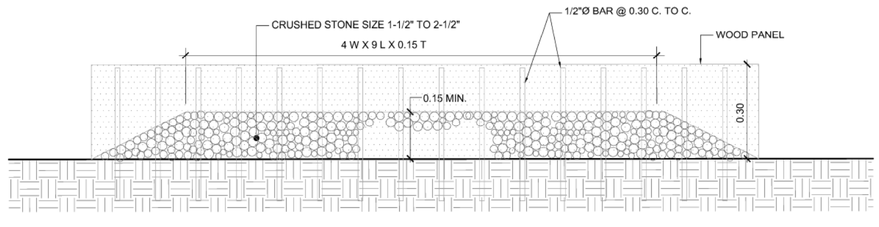
1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
3. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
4. CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED.
5. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

SILT FENCE INLET PROTECTION

N.T.S.



TEMP. HOSE BIBB DETAIL



TRUCK WASHING FACILITIES

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE, A MI LEAL SABER Y ENTENDER, ESTOS PLANOS CUMPLEN CON LO QUE ENTIENDO QUE DICEN ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ESTOY CONSCIENTE DE QUE CUALQUIER ENMIENDA O ADICION A CUALQUIERA DE ESTOS PLANOS Y ESPECIFICACIONES, SE HAN CUMPLIDO Y ENMENDADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 21004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA"" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE OBRAS PÚBLICAS, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACIÓN DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA CGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

CES DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-2

LEGEND:

PROPERTY LINE

SURVEY PROPERTY POINTS

SLOPE PATTERN

L1 or C1 ALIGNMENT ID

COORDINATES ID

KEY NOTES ID

CROSSWALK

ACCESIBLE RAMP

GENERAL NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS, AND OTHER RELATED PLANS, HAS BEEN PREPARED CONSIDERING THE INFORMATION INCLUDED IN THE FOLLOWING PLAN(S): "AS-BUILT PLAN PLAN OF PLAZA PUBLICA MANUEL JIMENEZ DE GUANICA" PREPARED BY SURVEYOR , LIC.NO 7528. AND DATED JULY 11,2022.

3. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT, SIDEWALKS AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, THE CONTRACTOR SHALL REPAIR ANY AFFECTED AREA OF ASPHALT PAVEMENT BY PERFORMING A 2" COLDMILLING AND REPAVE WITH 2" OF HOT PLANT MIX BITUMINOUS ASPHALT TYPE S(75).

4. HORIZONTAL CONTROLS ARE REFERRED TO THE PUERTO RICO LAMBERT COORDINATE SYSTEM [NAD 83 (2011/PA11/MA 2011) EPOCH 2010.00].

5. ELEVATIONS ARE REFERRED TO PUERTO RICO VERTICAL DATUM 2002 (PRVD02).

6. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY, THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

7. FOR SITE DETAILS, REFER TO DWG. C-5 TO C-5.2.

8. PROPERTY LINE AND RIGHT-OF-WAY MONUMENTS SHALL NOT BE DISTURBED BY CONSTRUCTION. IF DISTURBED, THEY SHALL BE RESET TO THEIR ORIGINAL LOCATIONS AT THE CONTRACTOR'S EXPENSE BY A REGISTERED LAND SURVEYOR.

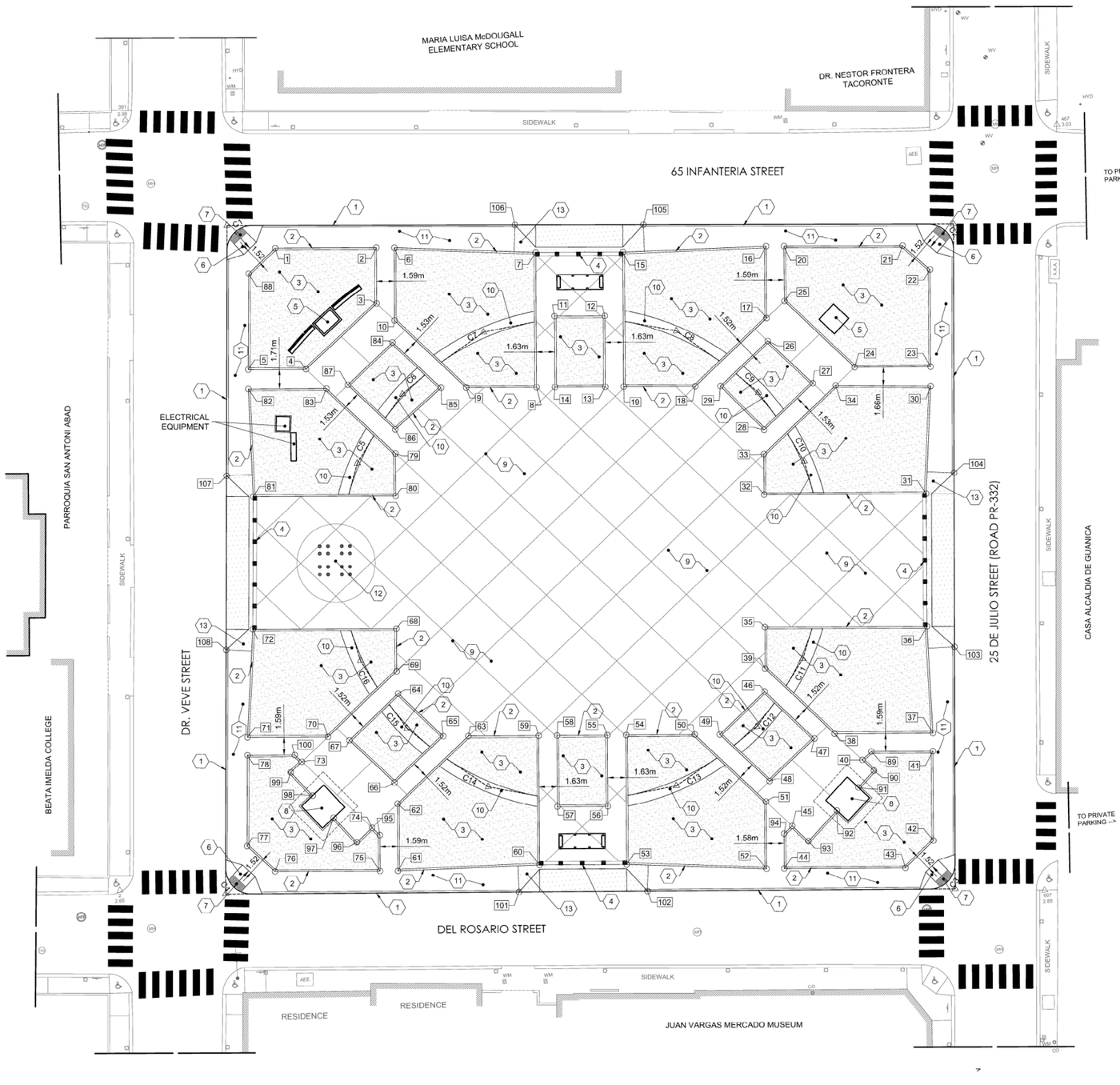
9. ALL SIDEWALKS, CURB AND GUTTER, STREET PAVING, CURB CUTS, DRIVEWAY APPROACHES, ACCESSIBLE RAMPS, ETC. CONSTRUCTED IN THE RIGHT-OF-WAY SHALL CONFORM TO ALL MUNICIPAL AND/OR STATE SPECIFICATIONS AND REQUIREMENTS.

10. ALL DISTURBANCE INCURRED TO ANY ADJOINING PROPERTY DUE TO CONSTRUCTION OR DEMOLITION SHALL BE RESTORED TO THE PREVIOUS CONDITION OR BETTER, AND TO THE SATISFACTION OF THE CITY OR STATE AUTHORITY.

11. FOR ORNAMENTAL FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

KEY NOTES:

1. PROPOSED CURB TYPE "D"
2. PROPOSED GRANITE TILE, REFER TO ARCHITECTURAL PLANS.
3. PROPOSED PLANTING
4. PROPOSED GRANITE VEHICULAR CONTROL BOLLARDS, REFER TO ARCHITECTURAL PLANS.
5. MONUMENT, REFER TO ARCHITECTURAL PLANS.
6. PROPOSED ACCESIBLE RAMP
7. DETECTABLE WARNING FIELD
8. KIOSK, REFER TO ARCHITECTURAL PLANS.
9. CONCRETE SLAB, REFER TO STRUCTURAL PLANS FOR THICKNESS, CONCRETE STRENGTH AND CONSTRUCTION JOINTS TYPES AND DISTRIBUTION.
10. PROPOSED PEDESTRIAN CROSSING STRIP, REFER TO ARCHITECTURAL PLANS.
11. EXISTING CONCRETE SIDEWALK WITH NEW SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.
12. PROPOSED FOUNTAIN AREA
13. NEW CONCRETE SIDEWALK AND SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.



GEOMETRICAL SITE PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com

klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O DIVULGACION QUE SE HAGA DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y PREVIO DE NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 225-24**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE ESTOS PLANOS SON PARTE INTEGRAL DE ESTE PROYECTO. ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASUMO LA RESPONSABILIDAD PROFESIONAL POR LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES, SI HA CUMPLIDO Y ANALIZADO CON LO DISPUESTO EN LA LEY 14 DE 6 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, CONOCIDA COMO LA "LEY PARA LA SIESTA", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OCPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821 -2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

GEOMETRICAL SITE PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-3

VERTEX DATA TABLE							
ID	Δ	R	T	E	L	P.I. COORDINATES N	P.I. COORDINATES E
C1	89-45-55	2.25	2.24	0.93	3.53	215,486.5970	149,707.2647
C2	89-58-13	2.25	2.25	0.93	3.53	215,482.2296	149,771.5545
C3	89-44-13	2.25	2.24	0.92	3.52	215,423.4132	149,767.5897
C4	90-31-39	2.25	2.27	0.95	3.56	215,427.4692	149,703.0045
C5	15-17-57	21.39	2.87	0.19	5.71	215,464.7542	149,717.3254
C6	13-53-33	21.39	2.61	0.16	5.19	215,470.6040	149,721.7511
C7	24-14-46	21.39	4.60	0.49	9.05	215,475.5841	149,729.3096
C8	24-29-45	21.39	4.64	0.50	9.15	215,474.4929	149,746.3805
C9	13-54-49	21.39	2.61	0.16	5.19	215,468.5358	149,753.2641
C10	15-18-39	21.39	2.88	0.19	5.72	215,462.1542	149,756.8882
C11	14-56-41	21.39	2.81	0.18	5.58	215,444.6890	149,755.5330
C12	13-55-01	21.39	2.61	0.16	5.20	215,438.9846	149,751.0373
C13	23-09-16	21.39	4.38	0.44	8.64	215,434.2578	149,743.5624
C14	23-23-42	21.39	4.43	0.45	8.73	215,435.3319	149,726.9085
C15	13-54-57	21.39	2.61	0.16	5.20	215,441.0300	149,720.0835
C16	14-53-07	21.39	2.79	0.18	5.56	215,447.2666	149,716.3827

SITE COORDINATES	
PT NO.	COORDINATES
1	N 215,484.2837 E 149,711.3865
2	N 215,483.7016 E 149,720.3417
3	N 215,478.7609 E 149,720.0205
4	N 215,473.3860 E 149,713.3631
5	N 215,473.7118 E 149,708.2537
6	N 215,483.5873 E 149,721.9277
7	N 215,482.3043 E 149,734.4120
8	N 215,470.3750 E 149,733.6533
9	N 215,470.7724 E 149,727.4181
10	N 215,477.1589 E 149,721.5031
11	N 215,476.5449 E 149,735.6763
12	N 215,476.2603 E 149,740.1408
13	N 215,469.9855 E 149,739.7400
14	N 215,470.2716 E 149,735.2764
15	N 215,481.7906 E 149,742.1221
16	N 215,481.4137 E 149,754.8327
17	N 215,475.0687 E 149,754.4350
18	N 215,469.4791 E 149,747.7102
19	N 215,469.8836 E 149,741.3632
20	N 215,481.3090 E 149,756.4173

SITE COORDINATES	
PT NO.	COORDINATES
21	N 215,480.6154 E 149,766.9163
22	N 215,478.3582 E 149,769.1929
23	N 215,469.7503 E 149,768.6443
24	N 215,470.1763 E 149,761.9296
25	N 215,476.4491 E 149,756.1204
26	N 215,473.0453 E 149,754.4009
27	N 215,469.0161 E 149,758.1327
28	N 215,465.1976 E 149,753.5329
29	N 215,469.3377 E 149,749.9283
30	N 215,468.0394 E 149,768.5352
31	N 215,458.5509 E 149,767.4723
32	N 215,459.4651 E 149,753.1284
33	N 215,463.0727 E 149,753.3581
34	N 215,468.6875 E 149,760.1315
35	N 215,447.7354 E 149,752.3806
36	N 215,446.7951 E 149,766.7230
37	N 215,437.3296 E 149,766.5892
38	N 215,437.8848 E 149,757.8777
39	N 215,444.0723 E 149,752.1471
40	N 215,435.3958 E 149,760.1797

SITE COORDINATES	
PT NO.	COORDINATES
41	N 215,435.7444 E 149,766.4769
42	N 215,427.8160 E 149,765.9716
43	N 215,425.5813 E 149,763.3276
44	N 215,426.2648 E 149,752.6034
45	N 215,429.9787 E 149,753.5638
46	N 215,442.0293 E 149,751.9615
47	N 215,437.5910 E 149,756.0721
48	N 215,434.0834 E 149,751.8409
49	N 215,438.5340 E 149,747.7188
50	N 215,438.6847 E 149,745.5021
51	N 215,432.3182 E 149,751.3980
52	N 215,426.3537 E 149,751.0315
53	N 215,427.6111 E 149,738.6706
54	N 215,439.0619 E 149,739.4357
55	N 215,439.1670 E 149,737.7755
56	N 215,432.8771 E 149,737.3749
57	N 215,433.1616 E 149,732.9113
58	N 215,439.4495 E 149,733.3123
59	N 215,439.5521 E 149,731.6894
60	N 215,428.1025 E 149,730.9591

SITE COORDINATES	
PT NO.	COORDINATES
61	N 215,428.4448 E 149,718.3983
62	N 215,434.4080 E 149,718.7784
63	N 215,439.9474 E 149,725.4611
64	N 215,444.1208 E 149,719.5083
65	N 215,440.0888 E 149,723.2427
66	N 215,436.2763 E 149,718.6434
67	N 215,440.3085 E 149,714.9089
68	N 215,449.8739 E 149,719.7646
69	N 215,446.1147 E 149,719.5245
70	N 215,440.7423 E 149,713.0434
71	N 215,441.1980 E 149,705.9081
72	N 215,450.7074 E 149,707.0518
73	N 215,438.6895 E 149,710.5669
74	N 215,432.4167 E 149,716.3761
75	N 215,428.5459 E 149,716.8134
76	N 215,429.1543 E 149,707.5164
77	N 215,431.5782 E 149,705.2017
78	N 215,439.6139 E 149,705.7949
79	N 215,465.4049 E 149,720.7539
80	N 215,461.6209 E 149,720.5128

SITE COORDINATES	
PT NO.	COORDINATES
81	N 215,462.4448 E 149,707.9057
82	N 215,472.0018 E 149,708.1419
83	N 215,471.5605 E 149,715.0527
84	N 215,475.2464 E 149,721.1868
85	N 215,470.9135 E 149,725.2036
86	N 215,467.5067 E 149,720.8879
87	N 215,471.7492 E 149,716.9680
88	N 215,482.2094 E 149,708.8850
89	N 215,436.0926 E 149,761.0307
90	N 215,434.3672 E 149,761.1311
91	N 215,432.9881 E 149,759.6597
92	N 215,431.0739 E 149,757.6174
93	N 215,428.5312 E 149,754.9045
94	N 215,429.3536 E 149,752.8003
95	N 215,431.7229 E 149,717.0160
96	N 215,431.2320 E 149,714.9469
97	N 215,433.5525 E 149,713.0364
98	N 215,435.6422 E 149,711.3159
99	N 215,437.8224 E 149,709.5209
100	N 215,439.3459 E 149,709.9858

SITE COORDINATES	
PT NO.	COORDINATES
101	N 215,425.8377 E 149,728.9833
102	N 215,425.1240 E 149,740.3480
103	N 215,444.8053 E 149,769.0318
104	N 215,460.2099 E 149,770.0702
105	N 215,484.0941 E 149,744.1083
106	N 215,484.8539 E 149,732.7460
107	N 215,464.4415 E 149,705.6811
108	N 215,449.0531 E 149,704.5703

GEOMETRICAL DATA AND TABLES

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE LOS MISMOS ESTA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO EXCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES Y ESTIMADOS, Y QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, CONOCIDA COMO LA "LEY DE LA PROFESIÓN", SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA CGPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO 3ox 795 Guanica, Puerto Rico 00653
787 821-2777

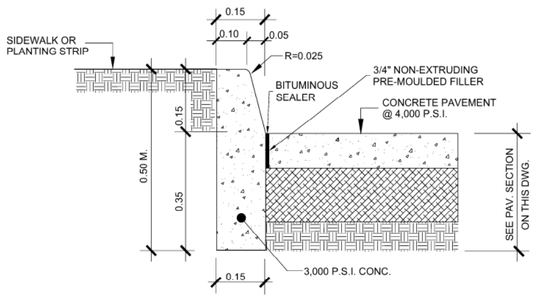
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

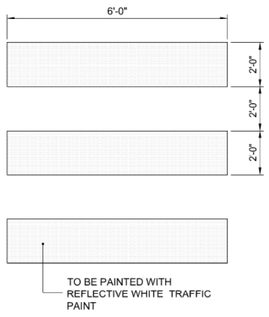
GEOMETRICAL DATA AND TABLES

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

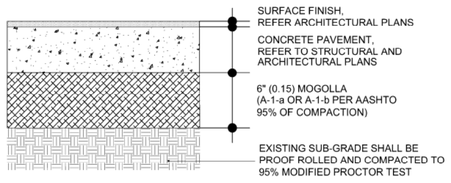
C-4



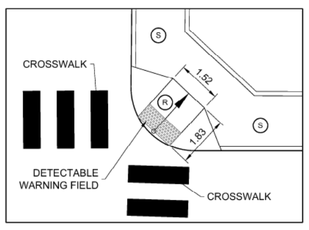
TYPE "D" CONCRETE CURB
NOT TO SCALE



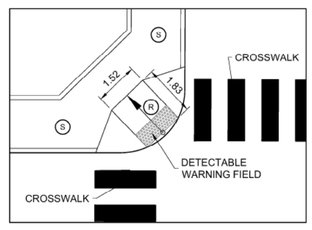
CROSSWALK DETAIL
NOT TO SCALE



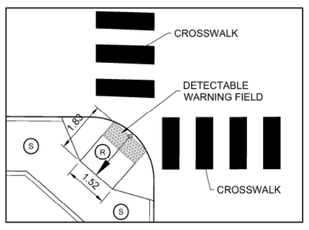
TYPICAL CONCRETE SLAB SECTION
NOT TO SCALE



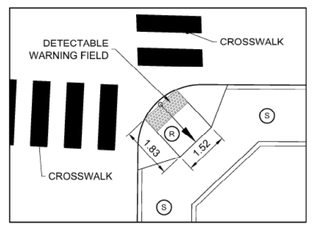
RAMP AR-1
NOT TO SCALE



RAMP AR-2
NOT TO SCALE



RAMP AR-3
NOT TO SCALE

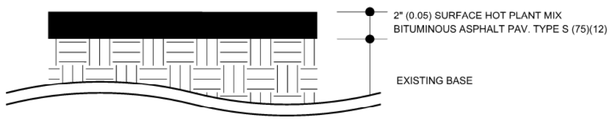


RAMP AR-4
NOT TO SCALE

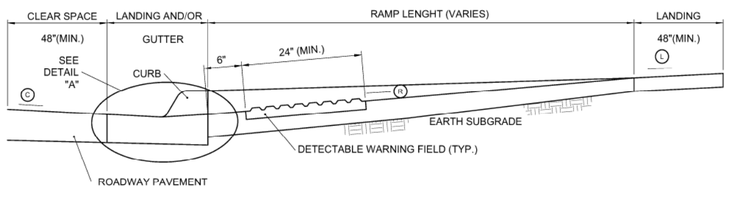
RAMPS GENERAL NOTES:
1. THE MAXIMUM CROSS SLOPES OF RAMPS MUST NOT EXCEED 2% IN ANY DIRECTION.
2. USE A COARSE BROOM FINISH RUNNING PERPENDICULAR TO THE SLOPE TO CREATE A SLIP RESISTANT SURFACE ON CONCRETE RAMP SURFACES, EXCLUSIVE OF THE DETECTABLE WARNING FIELDS.
3. CONSTRUCT CURB RAMP PERPENDICULAR TO THE CURB. AVOID SKEWING THE RAMP FACE.
4. CONSTRUCT RAMP TRANSITIONS BETWEEN WALKS, GUTTERS, OR STREET THAT ARE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES NOT TO EXCEED 2.5 INCHES.
5. AT POINTS WHERE A CHANGE IN SLOPE OCCURS, THE ALGEBRAIC GRADE DIFFERENCE SHALL NOT EXCEED 11%.
6. LOCATE DRAINAGE INLETS AND MANHOLES OUTSIDE OF RAMP WALKING SURFACES OR LANDINGS.
7. LOCATE DETECTABLE WARNING FIELD 6 INCHES BEHIND BACK OF CURB.
8. WALKING SURFACE WITH DETECTABLE WARNING FIELD (TRUNCATED DOMES) SHALL BE A SUBSIDIARY OBLIGATION TO THE CONTRACTOR AND PAID UNDER SPECIFICATION 608.
9. ANY TYPE OF ADA RAMPS, INCLUDING LANDING, FOR WHEEL CHAIRS AND HANDICAPPED PERSONS WILL BE MEASURED BY THE SQUARE METER OF COMPLETED AND ACCEPTED RAMP SURFACE.
10. THE DIMENSIONS AND MATERIALS OF SIDEWALK SHALL BE IN CONFORMITY WITH THE DETAILS, LINES AND GRADES SHOWN ON THE CONTRACT PLANS ORAS ESTABLISHED BY THE ENGINEER.
11. THE RAMPS AND SIDEWALKS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATION 608."SIDEWALKS".
12. THE DETECTABLE WARNING FIELD SHALL BE YELLOW IN COLOR TO PROVIDE HIGH VISIBILITY TO THE VISUALLY IMPAIRED.

SLOPE TABLE		
DESCRIPTION	MAX RUNNING SLOPE*	MAX CROSS SLOPE**
LANDING	2% (1V:50H)	2% (1V:50H)
RAMP	8.33% (1V:12H)	2% (1V:50H)
PARALLEL RAMP	7.1% (1V:14H)	2% (1V:50H)
CLEAR SPACE	5% (1V:20H)	2% (1V:50H)
SIDEWALK	--------	2% (1V:50H)
TRANSVERSABLE SURFACE	10% (1V:10H)	--------

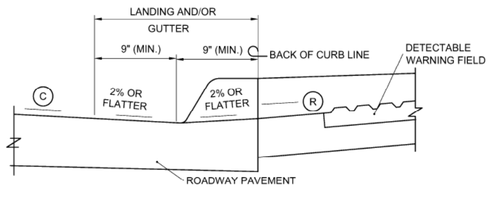
*RUNNING SLOPE IS IN DIRECTION OF PEDESTRIAN TRAVEL.
**CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.



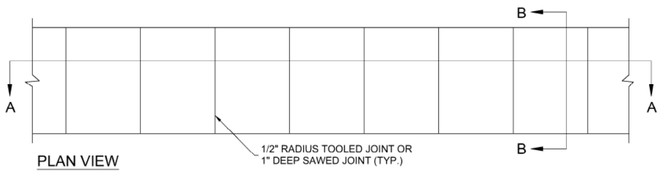
TYPICAL ASPHALT SECTION FOR MUNICIPAL STREET (AT COLD MILLED AREA)
NOT TO SCALE



RAMP SECTION
TYPICAL SECTION THROUGH RAMP RUN AND LANDINGS WITH UPPER LANDING AT NORMAL SIDEWALK ELEVATION
NOT TO SCALE

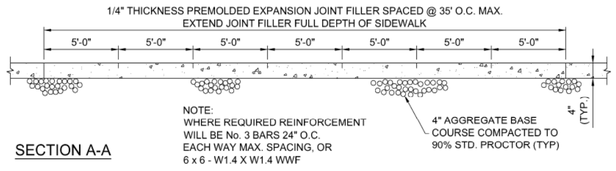


DETAIL "A"
NOT TO SCALE

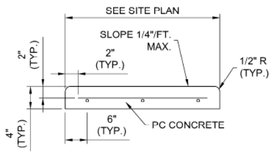


PLAN VIEW

NOTE:
PROVIDE 1/2" EXPANSION JOINT BETWEEN SIDEWALK AND ALL FIXED OBJECTS



SECTION A-A



SECTION B-B

CONCRETE SIDEWALK DETAIL
NOT TO SCALE

NOTE:
FOR SURFACE FINISH, REFER TO ARCHITECTURAL PLANS.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:
1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**, CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESAMENTE PROVEIDO UN MUESTRO CONSENTIMIENTO ESCRITO.
2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO O SUPERVISADO LA PREPARACION DE LOS MISMOS, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. QUE LA CONSTRUCCION DE LAS OBRAS DISEÑADAS EN LOS PRESENTES PLANOS Y CERTIFICACIONES, SE HA CUMPLIDO Y REALIZADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 313 DE 15 DE DICIEMBRE DE 1998, SEGÚN ENMENDADA, CONOCIDA COMO LA LEY ESPECIAL SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROVEIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

SITE DETAILS

drawn by TAG
checked by CGT
file
plot scale 1=1
trg num

drawing sheet number:
C-5

GRADING NOTES:

1. DIMENSIONS AND/OR ELEVATIONS ARE SHOWN IN METRIC SYSTEM, UNLESS OTHERWISE NOTED.

2. THIS PLAN AND OTHER RELATED ONES, HAS BEEN PREPARED CONSIDERING THE INFORMATION SUPPLIED BY TRG ARCHITECTS, PSC.

3. PRIOR TO START CONSTRUCTION, THE OWNER SHALL ENGAGE THE SERVICES OF A CONSULTING GEOTECHNICAL ENGINEER WHO SHALL DIRECT AND SUPERVISE THE EARTHWORK OPERATIONS. CONTRACTOR SHALL ALSO COMPLY WITH THE RECOMMENDATIONS THAT SAID CONSULTANT MAY ESTABLISH DURING THE PROJECT CONSTRUCTION.

4. UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL ENGINEER,

(A) MATERIAL FOR FILL OR EMBANKMENT SHALL BE AS PER AASHTO CLASSIFICATION A-2-4 OR BETTER, COMPACTED TO DENSITIES OF 95% ON ALL AREAS, AS DETERMINED BY THE ASTM D-1557(MODIFIED PROCTOR TEST), DEPOSITED IN LAYERS WITH SUCH THICKNESS AS REQUIRED BY THE NATURE OF SOIL, BUT NEVER TO EXCEED TEN (10) INCHES , AND SHALL EXHIBIT A MOISTURE CONTENT RANGING FROM +2 TO +4% ABOVE THE OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION.

(B) SLOPES SHALL NOT BE STEEPER THAN 1.5 TO 1.0 FOR CUTS AND 2.0 TO 1.0 FOR FILLS.

(C) ALL SLOPES EXCEEDING 2.0 TO 1.0 AND DIRT SWALES SHALL BE SODDED IMMEDIATELY WITH BERMUDA GRASS, PLANTED IN BLOCKS, TO PREVENT EROSION.

5. THE TOPSOIL NEEDED TO PROVIDE THE FINAL GRADES FOR LAWNS AND PLANTING AREAS SHALL BE PROPERLY STOCKPILED WITHIN THE PROJECT LIMITS.

6. ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. SUBGRADES AND GRADES ARE AS FOLLOWS:

(A) FOR BUILDING FLOOR SLAB, GRADE TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.

(B) FOR STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS, GRADE TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.

(C) FOR LAWNS & PLANTING AREAS, GRADE TO FOUR INCHES (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH ACCEPTABLE TOPSOIL.

7. CONTRACTOR SHALL REPAIR AND MAINTAIN ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT. ALSO, CONTRACTOR SHALL REPAVE ANY AFFECTED AREA OF PAVEMENT WITH 2" HOT PLANT MIX BITUMINOUS ASPHALT TYPE S (75).

8. SYMBOLS ARE FOR ILLUSTRATION PURPOSES ONLY. THEY ARE NOT NECESSARILY OF THE SAME TYPE AND/OR SIZE OF THE OBJECT WHICH THEY REPRESENT.

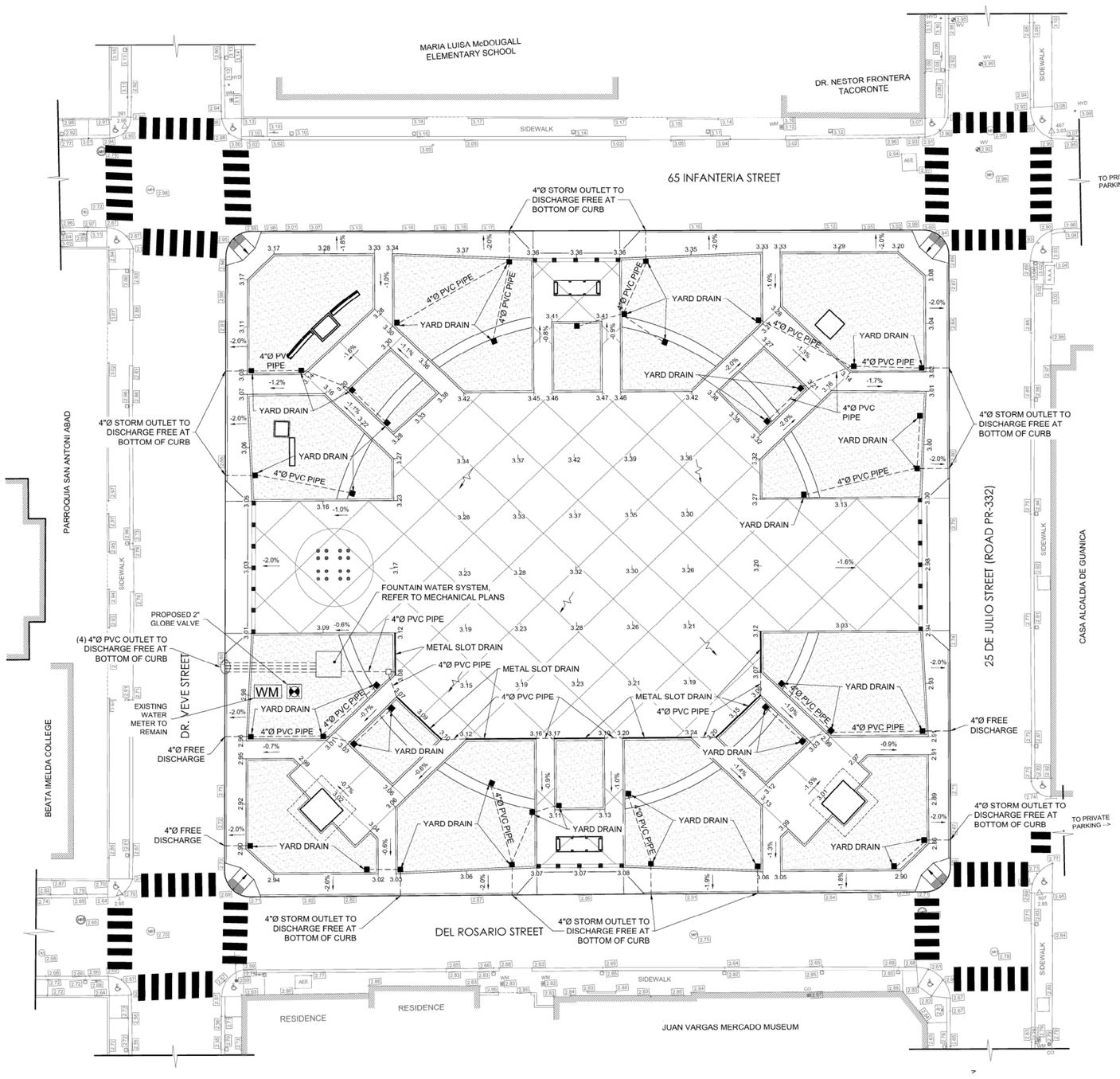
9. CONTRACTOR SHALL VERIFY, AGAINST THE ELECTRICAL DRAWINGS, ANY POWER, TELEPHONE AND LUMINARY POLES SHOWN ON THIS DRAWINGS AS EXISTING TO REMAIN OR TO BE RELOCATED. IN CASE OF DISCREPANCIES, THE ELECTRICAL DRAWINGS SHALL TAKE PRECEDENCE.

10. FOR FENCES AND RAILINGS LOCATIONS, DETAILS, TYPE OR MATERIAL, REFER TO ARCHITECTURAL DRAWINGS.

11. STORM SEWER LINES SHALL BE AS FOLLOWS:
- a) FOR R.C.P., USE CLASS III.
- b) FOR P.V.C. PIPE LESS THAN 18"Ø, USE P.V.C. SEWER PIPE A.S.T.M. D-3034.
- c) FOR P.V.C SEWER PIPE RANGING FROM 18" AND 30"Ø, USE P.V.C. A.S.T.M. F-1803.

LEGEND:

- PROPERTY LINE
- SURVEY PROPERTY POINTS
- SLOPE PATTERN
- PROPOSED ELEVATIONS
- EXISTING ELEVATIONS
- CONTOUR INTERVAL AT 1.00m
- CONTOUR INTERVAL AT 0.25m
- YARD DRAIN (SPEE-D BASIN SYSTEM WITH 9" GREEN PLASTIC SQUARE GRATES BY NDS OR SIMILAR).
- 4"Ø PVC PIPE
- METAL SLOT DRAIN, REFER TO ARCHITECTURAL PLANS



EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO EXPRESAMENTE PROHIBIDO UN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO LOS MISMOS Y QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS. ASIMISMO CERTIFICO QUE SOY EL DUEÑO DE LA OBRA DE CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y ANUNCIADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE PATENTES", SEGÚN ENMENDADA, SIGUIA APUDER. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MI AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA COPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO 3ox 795 Guanica, Puerto Rico 00653
787 821-2777

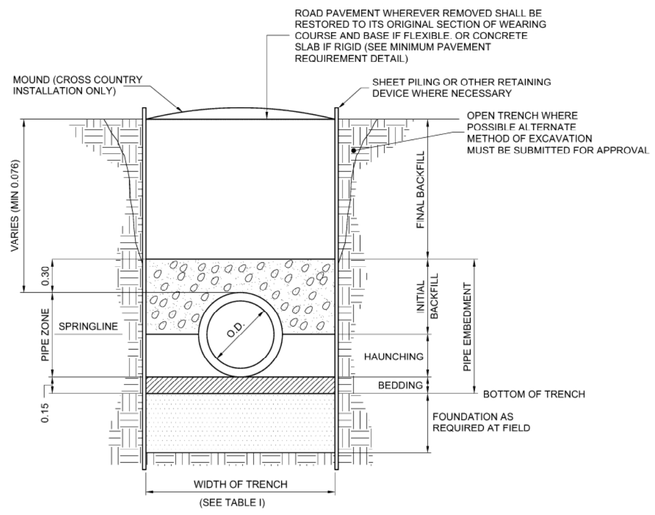
#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

EXISTING TOPOGRAPHY, PROPOSED GRADING AND STORM SEWER PLAN

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-6



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I

WIDTH OF TRENCH

DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
4" - 15"	O.D. + 12"
16" - 27"	O.D. + 18"

NOTE:

* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0.90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4. WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y POR ESCRITO DE NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA DE CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES, SE HA CUMPLIDO Y REQUERIDO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, CONOCIDA COMO "LEY DE PROFESIONES LEGALES, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MY, AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA CGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

STORM SEWER SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

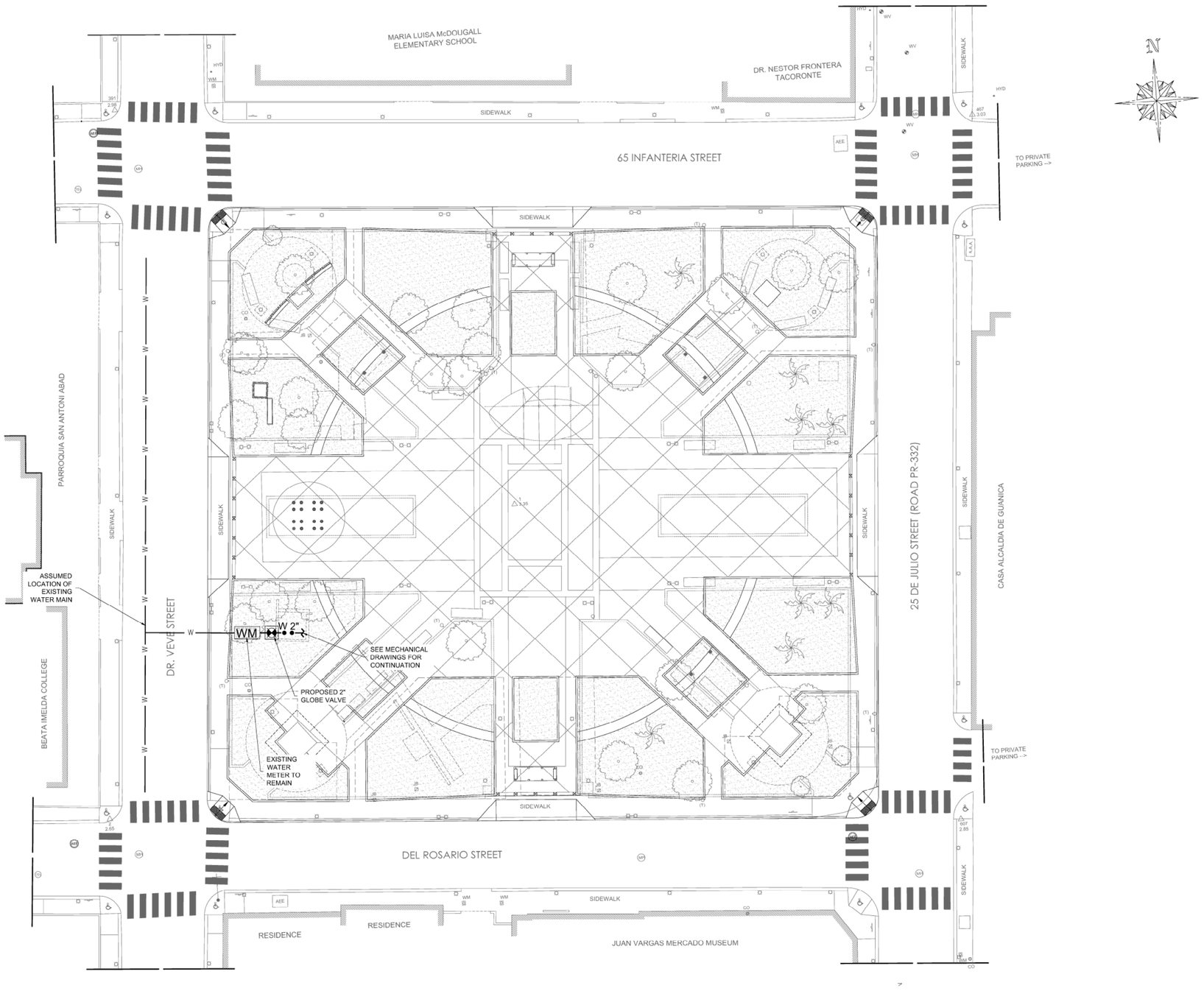
C-7

WATER NOTES:

1. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
2. ALL 2"Ø DIAMETER CONNECTIONS SHALL BE INSTALLED WITH 180 DEGREES SLEEVES AND SERVICE CLAMPS.
3. ALL INSTALLATIONS SHALL BE PERFORMED ACCORDING TO PUERTO RICO AQUEDUCT AND SEWER AUTHORITY'S (P.R.A.S.A.) REGULATIONS.
4. A 6" DETECTABLE BLUE TAPE, LIKE THE ONE MANUFACTURED BY "REFF INDUSTRIES, INC" OR SIMILAR, SHALL BE INSTALLED ON THE PIPE. THE TAPE SHALL BE LOCATED ON TOP AND PARALLEL TO THE PIPE AT A DEPTH OF 0.30 MTS (12") UNDER THE SURFACE.
5. CONCRETE THRUST BLOCKS SHALL BE PROVIDED WHENEVER A CHANGE IN THE PIPE'S DIRECTION OCCURS.
6. IT IS NECESSARY TO EXCAVATE THE AREA WHERE PROJECT CONNECTION IS LOCATED TO VERIFY DEPTH AND PIPE MATERIAL PRIOR TO PLACING ASPHALT, THE CORRESPONDING INSPECTION SHALL BE REQUESTED TO PRASA BY THE CONTRACTOR.
7. THE CONTRACTOR OR PROJECT OWNER SHALL SUBMIT EVIDENCE OF PAYMENT FOR CONNECTION TO THE SYSTEM PRIOR TO RECEIVING FINAL ENDORSEMENT OF THE PROJECT.
8. ALL CONNECTION PIECES SUCH AS TEES, VALVES, PLUGS, ETC. SHALL BE MADE OF CAST IRON.
9. THE PIPE SHALL BE INSTALLED AT A DEPTH OF 0.75 MTS FROM THE SURFACE TO THE TOP OF THE PIPE AND AT A MIN. DISTANCE OF 1.50 MTS FROM THE CURB.
10. THE FIRE HYDRANTS SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENTS. FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
11. THE OWNER OR REPRESENTATIVE SHALL NOTIFY TO P.R.A.S.A.'S OFFICE, IN WRITING, WHEN WORKS BEGIN.
12. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE SPECIFICATIONS OF P.R.A.S.A. AND WITH THE ADDITIONAL CONDITIONS INDICATED IN THE WRITTEN APPROVAL. IN CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE WRITTEN APPROVAL BY P.R.A.S.A., THE WRITTEN APPROVAL SHALL PREVAIL.
13. P.R.A.S.A. RESERVES THE RIGHT TO REQUIRE ANY CHANGES NOT INCLUDED IN THE PROJECT DUE TO OMISSIONS OR INVOLUNTARY ERRORS IF, TO ITS BEST JUDGMENT, ARE NECESSARY FOR THE PROPER FUNCTIONING OF THE WATER DISTRIBUTION SYSTEM.
14. THE WATER METER BOXES SHALL BE INSTALLED OUT OF THE ROADWAY, PARKING OR MOTOR VEHICLES ACCESS RAMPS.
15. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT, FOR MORE INFORMATION, REFER TO THE CURRENT PUERTO RICO ENERGY AND POWER AUTHORITY DESIGN STANDARDS AND THE NATIONAL ELECTRIC CODE.
17. THE WATER METER BOX SHALL BE INSTALLED USING COPPER TYPE "K" OR BRONZE PIPE OF EQUAL COMPLIANCE FOR METERS 1"Ø AND SMALLER.
18. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE, WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
19. THE FITTINGS USED TO INSTALL THE WATER METER SHALL BE THREADED OR FLARED TYPE, WELDED FITTINGS ARE NOT ALLOWED FOR THE METER INSTALLATION.
20. THE DISTANCE BETWEEN THE WATER SERVICE CONNECTION AND THE SANITARY SEWER CONNECTION SHALL BE MORE THAN OR EQUAL TO 10 FEET. THE INSTALLATION OF BOTH SERVICES IN THE SAME TRENCH IS NOT PERMITTED.
21. AN AIR RELEASE VALVE SHALL BE INSTALLED AT ALL HIGH POINTS OF WATER PIPELINE THE LOCATION SHALL BE DETERMINED AT THE FIELD.
22. IN ORDER TO OBTAIN PRASA'S ACCEPTANCE OF THE PROJECT, IT SHALL BE PAVED WHEN PRASA'S FINAL VALIDATION IS PERFORMED.
23. THE WATER SERVICE PIPE SHALL BE INSTALLED ON THE OPPOSITE SIDE OF THE ELECTRIC, TELEPHONE AND CABLE TV SERVICE PIPES.
24. CONTRACTOR SHALL PROVIDE AND INSTALL ANTI-THEFT DEVICES FOR THE FIRE HYDRANTS IN THE PROJECTS.
25. THE PROJECT OWNER SHALL PERFORM A HYDRAULIC PRESSURE TEST TO THE WATER DISTRIBUTION SYSTEM PIPE AT A MINIMUM PRESSURE OF 150 PSI OR 1.5 TIMES THE REGISTERED PRESSURE IN THE WATER DISTRIBUTION SYSTEM ADJACENT TO THE PROJECT. THE TEST SHALL LAST FOR A MINIMUM OF 15 MINUTES AND NO PRESSURE LOSS SHALL BE REGISTERED THROUGHOUT THE TEST. P.R.A.S.A.'S PUBLIC & PRIVATE PROJECTS OFFICE PERSONNEL SHALL BE PRESENT DURING THE TEST IN ORDER TO VALIDATE THE SAME.
26. THE EQUIPMENT FOR THE PRESSURE TEST SHALL BE PROVIDED BY THE CONTRACTOR OR PROJECT PLUMBER. FOR PRESSURES OF 150 PSI, THE MANOMETER SCALE SHALL NOT EXCEED 200 PSI.
27. ANY NECESSARY CHANGE, RELATED TO THE POTABLE WATER DISTRIBUTION SYSTEM, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.

FIRE CONTROL METER NOTES:

1. ALL CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE FLANGED, MADE OF CAST IRON OR DUCTILE IRON AND FIRE RATED.
2. ALL EXPOSED CONNECTION PIECES INSIDE THE 4"Ø WATER METER BOX SHALL BE PAINTED WITH AN ANTI-CORROSION COATING.
3. IN CASE THE WATER TABLE IS HIGH, THE 4"Ø WATER METER SHALL BE INSTALLED ABOVE THE TERRAIN LEVEL IN A LOCATION DESIGNATED BY THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.).
4. THE METER BOX SHALL BE INSTALLED OUT OF PROPERTY LIMITS.
5. THE PUERTO RICO AQUEDUCT AND SEWER AUTHORITY (P.R.A.S.A.) WILL ONLY BE RESPONSIBLE FOR THE METER. THE PROJECT OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND CONSERVATION OF ALL INSTALLATION AFTER THE METER.
6. ALL CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED PLUMBER OR UNDER THE DIRECT SUPERVISION OF ONE.
7. ALL EXPOSED PIECES INSIDE THE WATER METER SHALL BE METALLIC.
8. THE USE OF DIELECTRIC COUPLINGS IS REQUIRED WHEN USING DISSIMILAR MATERIALS.
9. A DOUBLE CHECK VALVE SHALL BE INSTALLED AFTER THE NIPPLE FOLLOWING THE METER.
10. THE GATE VALVE SHALL HAVE AN OPERATOR OR HANDLE.
11. THE METER INSIDE THE BOX SHALL BE INSTALLED IN SUCH WAY THAT FACILITATES ITS READING WHEN THE COVER IS LIFTED.
12. THE WATER METER SHALL BE CALIBRATED IN CUBIC METERS.
13. THE BOX COVERS SHALL HAVE HOLES IN ORDER TO RAISE THEM PARALLEL TO THEIR FRAME RAILS OR GUIDES.
14. A GATE VALVE SHALL BE INSTALLED AFTER THE WATER METER AT A DISTANCE NO MORE THAN 2 FEET INSIDE THE PROPERTY LIMIT.
15. THE WATER METER BOX SHALL BE CONSTRUCTED OUT OF THE ROADWAY, PARKING, AND MOTOR VEHICLES OR PEDESTRIAN ACCESS RAMPS.
16. THE WATER METER BOX SHALL BE INSTALLED AT A SAFE AND ADEQUATE DISTANCE FROM ELECTRIC EQUIPMENT (LIGHTNING POLES, TRANSFORMERS, GROUND RODS, ETC.).
17. ANY NECESSARY CHANGE, RELATED TO THE METER, TO WHAT IS INDICATED IN THIS PLAN OR ITS WRITTEN APPROVAL, SHALL BE CONSULTED AND EVALUATED WITH P.R.A.S.A. FOR APPROVAL, PRIOR TO ITS CONSTRUCTION AND/OR DEVELOPMENT.
18. ALL BOLTS TO BE USED IN THE WATER METER INSTALLATION INSIDE THE BOX SHALL BE MADE OF STAINLESS STEEL.
19. COVER AND FRAMES OF EXISTING MASTER METERS (DOMESTIC AND FIRE) SHALL BE PAINTED WITH TWO (2) LAYERS OF RED OXIDE PRIMER AND TWO (2) LAYERS OF MARINE OIL BASED PAINT. CONTRACTOR SHALL COORDINATE WITH PRASA THE COLOR TO BE APPLIED.



ABBREVIATION:

P.V.C.=	POLYVINYL CHLORIDE
C.T.K.=	COPPER TYPE "K"
R.G.J.=	RUBBER GASKET JOINT
G.V.=	GATE VALVE
T.B.=	THRUST BLOCK
S.C.=	SERVICE CLAMP
T.E.=	TOP ELEVATION
I.E.=	INVERT ELEVATION
S.=	SLOPE
L.=	LENGTH

WATER LEGEND:

- W — EXISTING 4"Ø WATER MAIN PIPE
- W 2" — PROPOSED 2"Ø WATER PIPE COPPER TYPE "K" (C.T.K.)
- WM — EXISTING 2" WATER METER
- PROPOSED VALVE

WATER PIPE DATA

DIAMETER	MATERIAL	LENGTH (METERS)
2"	COPPER PIPE TYPE "K" ASTM B-88	5

P.R.A.S.A. STAMP

WATER DISTRIBUTION SYSTEM PLAN

SCALE=1:200

0 5 10

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.460.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O DISTRIBUCION SIN EL CONSENTIMIENTO ESCRITO DE LOS MISMOS ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 23524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE, A MI LEAL SABER Y ENTENDER, ESTOS PLANOS SON CORRECTOS, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO Y ENMARCADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA"" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO "LEY PENAL ESPECIAL SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA COPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

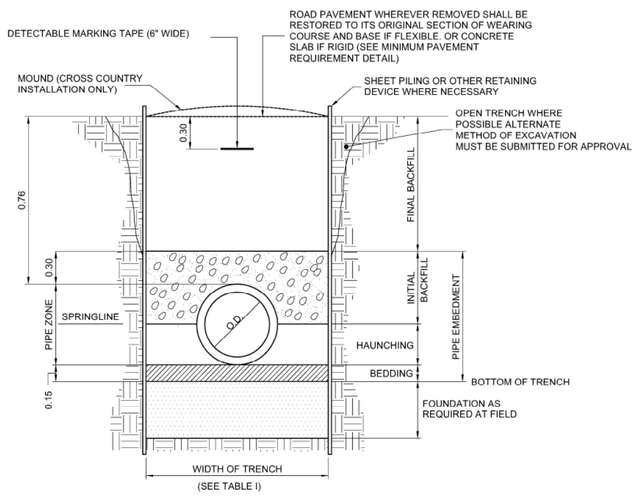
#	fecha	descripcion	por
1	--	--	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM PLAN

drawn by TAG drawing sheet number:
checked by CCT
file
plot scale 1=1
trg num

C-8



TRENCH DETAIL FOR PIPE WITHIN PROPERTY LIMITS

NOT TO SCALE

TABLE I WIDTH OF TRENCH	
DIAMETER (INCHES)	*WIDTH OF TRENCH AT TOP OF PIPE (INCHES)
4" - 15"	O.D. + 12"
16" - 27"	O.D. + 18"

NOTE:

* WHENEVER MOVABLE SHEET PILING OR OTHER TRENCH PROTECTION IS USED BELOW THE TOP OF THE PIPE, THE CLEAR DISTANCE BETWEEN THE OUTSIDE FACE OF THE PIPE AND THE MOVABLE TRENCH SUPPORT SHALL BE NOT LESS THAN 2 1/2", OUTSIDE PIPE DIAMETER.

NOTES:

FOUNDATION AND BEDDING:

1. MATERIALS AS CLASSIFIED BY USCS AS PER ASTM D-2487 SOILS CLASS "B" (OR A.A.S.H.T.O. A-1-a OR A-1-b) WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED IT SHALL PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT TO 90% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR DENSIFY TO 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. TESTS SHALL BE PERFORMED AT 50 MTS INTERVALS.

HAUNCHING:

1. SAME MATERIALS AS FOR FOUNDATION AND BEDDING.
2. FILL MATERIAL SHALL BE PLACED IN 0.15 MT. LAYERS.
3. COMPACT 70% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049.

INITIAL BACKFILL-CROSS COUNTRY:

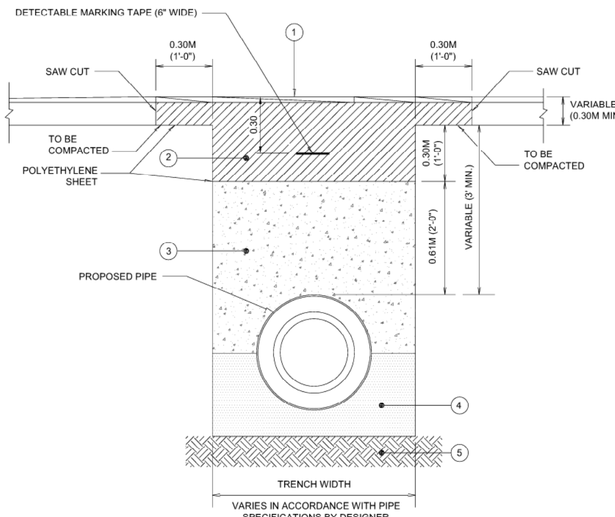
1. PREVIOUS EXCAVATED MATERIALS FREE FROM BOULDERS AND STONES LARGER THAN 2".
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACTION EFFORT NOT REQUIRED OTHER THAN OBTAINED BY SPREADING AND LEVELLING BACKFILL MATERIAL. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THIS SECTOR OF TRENCH.

FINAL BACKFILL-CROSS COUNTRY:

1. PREVIOUS EXCAVATED MATERIAL.
2. FILL MATERIAL SHALL BE LOOSELY PLACED IN 0.90 MT. LAYERS.
3. COMPACTION AS OBTAINED BY ROLLING WITH THE PLACEMENT EQUIPMENT.
4. MOUND THE SURFACE AND FILL AND MAINTAIN ALL SUNKEN TRENCHES UNTIL FINAL ACCEPTANCE OF THE PROJECT.

INITIAL AND FINAL BACKFILL-UNDER ROADS, STREETS, WALKS, APRONS AND OTHERS SURFACES:

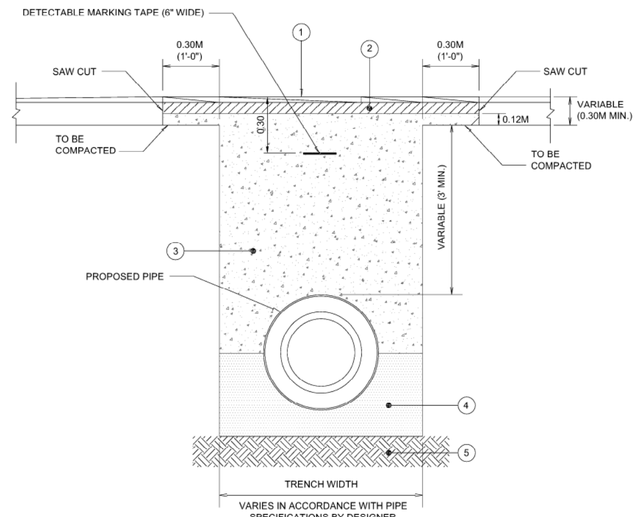
1. ANY MATERIALS AS CLASSIFIED BY A.A.S.H.T.O. A-1-a THRU A-2-4, WHERE CRUSHED GRAVEL OR CRUSHED STONE IS USED, IT SHALL BE AS PER ASTM C-33 GRADATION NO. 67.
2. FILL MATERIAL SHALL BE PLACED IN 0.30 MT. LAYERS.
3. COMPACT TO 95% OF MAX. COMPACTION AS PER ASTM D-698 FOR COHESIVE SOILS OR 85% OF MAX. RELATIVE DENSITY AS PER ASTM D-2049 FOR GRANULAR SOILS. ROLLING EQUIPMENT NOT ALLOWED FOR WORKING BACKFILL MATERIAL IN THE INITIAL BACKFILL SECTOR.



LEGEND:

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. FLOWABLE FILL BASE AS PER SPECIFICATION 905 (PRHTA) WITH THE EXCEPTION THAT COMPRESSIVE STRENGTH AT 28 DAYS SHALL NOT BE GREATER THAN 100 PSI AND NO LESS THAN 50 PSI AS DETERMINED IN ACCORDANCE WITH ASTM D 4832
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "A" IN EXISTING ROAD



LEGEND

1. 0.075M HOT PLANT BITUMINOUS CONCRETE PAVEMENT S(75)(12) AS PER SPEC. 401 OF THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY (PRHTA) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.
2. 0.10 ASPHALT BASE COURSE HOT PLANT MIX BITUMINOUS CONCRETE PAVEMENT, B(75) AS PER SPEC 401 (PRHTA)
3. FILLING WILL BE 3/4" COMMERCIAL GRAVEL. THE GRAVEL MUST BE PLACED AND TAMPERED IN LAYERS NO EXCEEDING 0.45 (1'-6") IN LOOSE THICKNESS. NO BACKFILLING WILL BE ALLOWED.
4. WELL COMPACTED 1/2" DIAMETER DOWN OF CLEAN CRUSHED STONE OR BEDDING SPECIFIED BY DESIGNER.
5. EXISTING SOIL.

TRENCH DETAIL "B" IN EXISTING ROAD

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico 00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESADO Y PREVIO DE NUESTRO CONSORTIMIENTO ESCRITO.

2. YO, **CARLOS C. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LOS MISMOS BAJO MI SUPERVISION Y QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y ENMENDADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

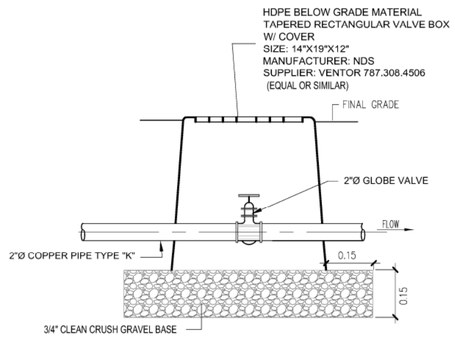
#	fecha	descripcion	por
⚠	-	-	

Documentos de Construccion

WATER DISTRIBUTION SYSTEM DETAILS

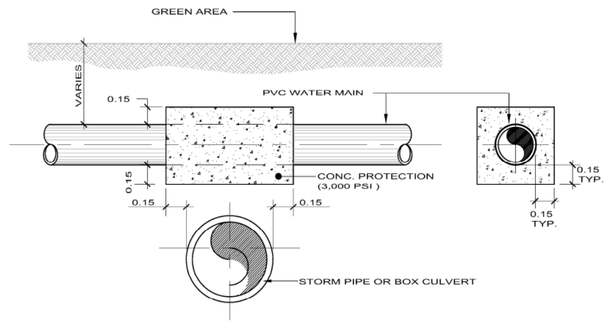
drawn by TAG
checked by CGT
file
plot scale 1=1
trg num

drawing sheet number: C-9



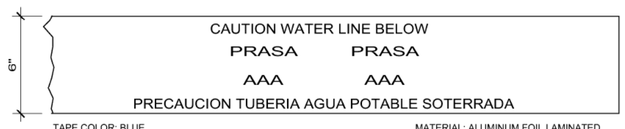
2" GLOBE VALVE WITH
RECTANGULAR VALVE BOX

NOT TO SCALE



CONCRETE PROTECTION FOR WATER
PIPE WHEN CROSSING W/ STORM LINE

NOT TO SCALE



TAPE COLOR: BLUE
IMPRINT COLOR: BLACK

MATERIAL: ALUMINUM FOIL LAMINATED
BETWEEN TWO LAYERS OF
INERT PLASTIC FILM

DETECTOR MARKING TAPE DETAIL
FOR WATER DISTRIBUTION PIPE

NOT TO SCALE

TERRA TAPE BY REEF
INDUSTRIES OR APPROVED
SIMILAR

P.R.A.S.A. STAMP

ISSUED FOR COMMENT AND COORDINATION
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795 San Juan, Puerto Rico
00902-3795, 1.787.469.5688 trg@trgarchitects.com
klein engineering psc

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE **TRG ARCHITECTS PSC**. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y ESCRITO DE NUESTRO CONSULTORIA ES EXCLUSIVAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO EXCRITO.

2. YO, **CARLOS G. TORRES RUIZ, LICENCIA NUMERO 22524**, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO PERSONALMENTE O BAJO MI SUPERVISION, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS, QUE ESTOY AUTORIZADO A PREPARAR Y FIRMAR LOS PLANOS Y ESPECIFICACIONES DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO Y ENMENDADO CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY NOTARIAL" SEGÚN ENMENDADA, SEGÚN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PROCEDIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MS. AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA CGPI.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	-	-	

Documentos de Construccion

WATER DISTRIBUTION
SYSTEM DETAILS

drawn by TAG drawing sheet number:
checked by CGT
file
plot scale 1=1
trg num

C-9.1

ABBREVIATIONS: (ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

A

A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ACCU	AIR COOLED CONDENSING UNIT
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CURRENT
AMPS	AMPERES
ANSI	AMERICA NATIONAL STANDARDS INSTITUTE
ARCH	ARCHITECT, ARCHITECTURAL
AUX	AUXILIARY

B

BFF	BELOW FINISHED FLOOR
BKR	BREAKER
BLDG	BUILDING

C

C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION SYSTEM
CKT	CIRCUIT
℄	CENTER LINE
CU	COPPER
CT	CURRENT TRANSFORMER

D

D	DEPTH
dB	DECIBEL
DC	DIRECT CURRENT
DEG	DEGREES
DIA	DIAMETER
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING

E

EA	EACH
EF	EXHAUST FAN
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
EXH	EXHAUST
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING

F

FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FT	FOOT, FEET
FVNR	FULL-VOLTAGE, NON-REVERSING

G

G,GND	GROUND
GA	GAUGE
GAL	GALLON
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY

H

H	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HZ	HERTZ
HV	HIGH VOLTAGES

I

ID	INSIDE DIAMETER
IG	ISOLATED GROUND

J

J-B	JUNCTION BOX

K

KCMIL	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
KWH	KILOWATT-HOUR

L

LRA	LOCKED ROTOR AMPS
LTG	LIGHTING

M

MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFGR	MANUFACTURER
MH	MANHOLE, METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED

N

N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE

O

OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

P

PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE

Q

QTY	QUANTITY

R

REQD	REQUIRED
REV	REVISION, REVISE
RGS	RIGID GALVANIZED STEEL
RLA	RUNNING LOAD AMPS
RM	ROOM

S

SD	SMOKE DAMPER
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SURF	SURFACE
SUSP	SUSPEND

T

TC	TIME CLOCK
TYP	TYPICAL

U

U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UL	UNDERWRITERS LABORATORIES, INC.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

V

V	VOLT
VA	VOLT-AMPERE

W

W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
WT	WATERTIGHT, WEIGHT

X

XFMR	TRANSFORMER

ELECTRICAL SYMBOLS: (ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

LIGHTING:

- SURFACE OR RECESSED LIGHTING FIXTURE, LETTER DENOTES TYPE. (NL DENOTES NIGHT LIGHT)
- WALL WASHER LIGHTING FIXTURE, LETTER DENOTES TYPE.
- EXIT SIGN, ARROWS AS INDICATED. LETTER DENOTES TYPE DARKENED AREA DENOTES LIGHTED FACE.
- STRIP LED LIGHTING FIXTURE, LETTER DENOTES TYPE.
- LIGHT FIXTURE ON EMERGENCY OR UNSWITCHED CIRCUIT, LETTER DENOTES TYPE.
- LED OR HID LIGHT FIXTURE, LETTER DENOTES TYPE, DRAWN TO SCALE.
- WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE.(NL DENOTES NIGHT LIGHT)
- STAGGERED STRIP LED FIXTURE, LETTER DENOTES TYPE.
- EMERGENCY LIGHT, BATTERY OPERATED.

SWITCHES:

- $ SWITCH, SPST, 20A, 120/277V.
- $_{3W}$ SWITCH, 20A, 120/277V, "2" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY.
- $_{L}$ SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT.
- $_{K}$ SWITCH, SPST, 20A, 120/277V, "K" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "N" DENOTES NARROW MULLION SWITCH.
- DIMMER CONTROL SWITCH, 2000 WATT UNLESS OTHERWISE NOTED.
- $_{MS}$ WALL MOUNTED INFRARED MOTION SENSOR.
- DOUBLE POLE SWITCH 30A-250V-3W-QUIET TYPE W/PILOT LIGHT, 4'-0"(1219) A.F.F.

RECEPTACLES AND OUTLETS

- SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "C" DENOTES CLOCK OUTLET.
- DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "H" DENOTES MOUNTED HORIZONTALLY.
- DUPLEX WALL RECEPTACLE MOUNTED 6" (152) ABOVE COUNTER OR BACKSPLASH.
- DUPLEX RECEPTACLE 20A,125V,3W, ISOLATED GROUND, AT 1'-6" A.F.F.
- $_{WP}$ DUPLEX WALL RECEPTACLE, "WP" DENOTES WEATHERPROOF, "TR" DENOTES SAFETY TYPE. "GFI" DENOTES GROUND FAULT INTERRUPTER. "SS" DENOTES SURGE SUPRESSION "IG" DENOTES ISOLATED GROUND.
- QUADRUPLEX RECEPTACLE 20A,125V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- DUPLEX RECEPTACLE 20A-125V W/G.F.I., 1'-6" A.F.F.
- DITTO, BUT 3'-6" A.F.F.
- SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED.
- FLOOR RECEPTACLE FLUSH MOUNTED.
- CEILING RECEPTACLE FLUSH MOUNTED.
- SINGLE RECEPTACLE 30A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- SINGLE RECEPTACLE 50A,250V,3W, GROUNDING TYPE, AT 1'-6" A.F.F.
- TV TELEVISION CABLE OUTLET @ 6'-8" (2032) A.F.F.
- CLOCK OUTLET.
- MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R, 20A, 125V AT 12" (304) ON CENTER.
- J JUNCTION BOX.
- POWER/TELEPHONE/DATA POLE (FOR MODULAR FURNITURE).
- FLOOR TELEPHONE OUTLET FLUSH MOUNTED.
- FLOOR DATA OUTLET FLUSH MOUNTED.
- FLOOR RECEPTACLE/TELEPHONE OUTLET FLUSH MOUNTED.
- FLOOR DATA/TELEPHONE OUTLET FLUSH MOUNTED.
- $_{P}$ TELEPHONE OUTLET "P" DENOTES PAY/PUBLIC TELEPHONE.
- DATA OUTLET.
- TELEPHONE & DATA OUTLET.

CIRCUITING AND WIRING

- CIRCUIT CONCEALED IN WALL OR CEILING.
- CIRCUIT BELOW SLAB OR GRADE.
- U/G UNDERGROUND CIRCUIT/DUCTBANK.
- HASH MARKS INDICATE NUMBER OF CONDUCTORS (LEFT TO RIGHT: NEUTRAL/PHASE/SWITCH LEG/GROUND). NO HASH MARKS INDICATE 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED.
- HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
- CONDUIT STUB UP.
- CONDUIT STUB DOWN.

ELECTRICAL EQUIPMENT

- DISTRIBUTION PANEL.
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD.
- 120/208V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- 277/480V, 3PH, 4W PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
- T DRY-TYPE TRANSFORMER.
- ATS AUTOMATIC TRANSFER SWITCH.
- PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' x 8' x 3/4" (1219 x 2438 x 19) UNLESS OTHERWISE NOTED.
- TERMINAL CABINET, TYPE AS NOTED 24" x 48" x 3½" (609 x 1219 x 89) UNLESS OTHERWISE NOTED.

MOTOR AND CONTROLS

- SINGLE OR THREE PHASE MOTOR.(NUMBER INSIDE SYMBOL CAN INDICATE HORSEPOWER)
- DISCONNECT (SAFETY) SWITCH "200/3" DENOTES AMPERES/POLES.
- FUSED DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLES/FUSE WHEN FUSE SIZE IS OMITTED, CONTRACTOR SHALL COORDINATE FUSE SIZE AT FIELD FOLLOWING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- MOTOR STARTER, VOLTS, ENCLOSURE & NEMA SIZE AS NOTED, H-O-A SWITCH & PILOT LIGHT ON COVER, PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/15/3/1" DENOTES AMPERES/FUSE(OR BREAKER)/ POLES/NEMA STARTER SIZE, "NF" DENOTES NON-FUSED, H-O-A SWITCH & PILOT LIGHT ON COVER. PROVIDE CONTROL TRANSFORMER AS REQUIRED FOR 120V COIL VOLTAGE.
- M MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
- C LIGHTING CONTACTOR, VOLTS. & AMPS. AS SHOWN, NEMA TYPE ENCLOSURE AS INDICATED.
- PC PHOTOCELL.
- PUSH BUTTON STATION.
- TC TIME CLOCK.

ONE LINE AND RISER DIAGRAMS

- TRANSFORMER, DESIGNATION AND RATINGS AS NOTED.
- SWITCH, RATINGS AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- FUSE, RATING AS SHOWN.
- CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- DRAWOUT CIRCUIT BREAKER, TRIP RATING AS SHOWN, 3 POLE UNLESS OTHERWISE NOTED.
- ST SHUNT TRIP.
- GFR GROUND FAULT RELAY.
- M WATT-HOUR METER, "D" DENOTES DEMAND REGISTER "15" DENOTES MINUTES OF DEMAND INTERVAL.
- CT CURRENT TRANSFORMER(CT), RATED AS SHOWN.
- GROUND CONNECTION.
- LIGHTNING ARRESTOR.
- AUTOMATIC TRANSFER SWITCH.

AUDIO/VIDEO

- S CEILING MOUNTED PUBLIC ADDRESS SPEAKER.
- S WALL MOUNTED PUBLIC ADDRESS SPEAKER.
- VOLUME CONTROL, FLUSH IN WALL WITH SPEAKER.

MISCELLANEOUS

- 1 DRAWING NOTE REFERENCE.(NOTES BY SYMBOL)
- T THERMOSTAT.

SECURITY

- K KEY PAD.
- M MAGNETIC DOOR CONTACTS.(OD-OVERHEAD DOOR)
- MD CEILING MOUNTED MOTION DETECTOR.
- MD WALL MOUNTED MOTION DETECTOR.
- CCTV CAMERA.
- S ACCESS SECURE SWITCH.
- KH KITCHEN HOOD.
- B DOOR BELL.
- B DOOR BELL/BUZZER.

MOUNTING HEIGHTS (UNLESS OTHERWISE NOTED)

1-WALL SWITCHES - 48"(1219) A.F.F. TO CENTER OF SWITCH.

2-WALL RECEPTACLES - 18"(457) AF.F. TO CENTER OF RECEPTACLE.

3-WALL TELEPHONE/DATA OUTLETS - 18"(457) A.F.F. TO CENTER OF RECEPTACLE.

4-PUBLIC TELEPHONE - 54"(1371) A.F.F. TO CENTER OF OUTLET.

5-CLOCK OUTLET - 84"(2133) A.F.F. TO CENTER OF OUTLET.

6-FIRE ALARM PULL STATION - 48"(1219) A.F.F. TO CENTER OF STATION.

7-FIRE ALARM HORN OR BELL - 80"(2032) A.F.F. TO CENTER OF HORN OR BELL.

SPECIAL NOTES: (FOR PROJECTS WITH 1 MILE FROM SEASHORE)

1-ALL ELECTRICAL EQUIPMENT ENCLOSURES(NOT LUMA RELATED) LOCATED OUTDOORS SHALL BE STAINLESS STEEL OR APPROVED NON METALLIC.

2-UNIT STRUT CHANNELS SHALL BE ALUMINUM OR FIBERGLASS.

3-CONDUIT STRAPS SHALL BE ALUMINUM OR NON METALLIC.

4-ALL EQUIPMENT OR HANGER HARDWARE SHALL BE STAINLESS STEEL OR ALUMINUM.

5-DISSIMILAR METALS SHALL BE SEPARATED BY DIELECTRIC GASKET.

6-EXPOSED CONDUITS SHALL BE PVC SCHEDULE 40 OR RIGID STEEL GALVANIZED PAINTED.

7-POLE RISERS SHALL BE PVC SCHEDULE 80.

8-SUBSTATION TRANSCLOSURE, TRANSFORMER TANKS & LUMA EQUIPMENT CABINETS SHALL BE STAINLESS STEEL AS PER LUMA'S SPECIFICATIONS.

9-METER BANKS SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION.

10-OUTDOOR H.V. CABLE TERMINATIONS SHALL BE 25KV RATED.

11-SUBSTATION LOUVER WINDOWS SHALL BE STAINLESS STEEL.

FIRE ALARM LEGEND:

- SD IONIZATION TYPE CEILING MOUNTED SMOKE DETECTOR.
- SD IONIZATION TYPE WALL MOUNTED SMOKE DETECTOR. INSTALL SO THAT TOP OF DETECTOR IS NOT MORE THAN 12"(304) AND NOT LESS THAN 4"(101) FROM CEILING.
- SD$_{H}$ SAME AS ABOVE, BUT 120V.
- HD HEAT DETECTOR CEILING MOUNTED, FIXED TYPE.
- F PULL STATION, WALL MOUNTED, 4'-0"(1219) A.F.F. PROVIDE AT LEAST ONE PULL STATION PER FLOOR, ADD PULL STATIONS AS REQUIRED SO THAT MAXIMUM TRAVEL DISTANCE TO NEAREST STATION DOES NOT EXCEED 200 FT.(60.96m.)
- HG COMBINATION FIRE ALARM HORN AND STROBE LIGHT, WALL MOUNTED. MOUNT HEIGHT SHALL BE NOT LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438).
- G CEILING MOUNTED COMBINATION FIRE ALARM HORN AND STROBE LIGHT. CEILING MOUNTED UNITS SHALL BE INSTALLED AS PER NFPA 72 TABLE 6-4.4.1(b)
- ST WALL MOUNTED STROBE LIGHT, MOUNT AT NO LESS THAN 80"(2032) AND NO GREATER THAN 96"(2438) ABOVE FINISHED FLOOR.
- ST CEILING MOUNTED STROBE. INSTALL AS PER NFPA 72 TABLE 6-4.4.1(b)
- FAP FIRE ALARM STAND ALONE CONTROL PANEL SEMI-FLUSH MOUNTED ADDRESSABLE TYPE, MODULAR DESIGN WITH ENOUGH CAPACITY TO SUPPORT DEVICES INDICATED, UNIT SHALL BE MICROPROCESSOR BASED, PRE-CONFIGURED, MODULAR DESIGN WITH INTELLIGENT INITIATING CIRCUITS TO SUPPORT SHOWN DEVICES. PROVIDE CABINET ROOM FOR SYSTEMS BATTERIES, BATTERIES AND BATTERY CHARGER.

FIRE ALARM NOTES:

1-WIRING SHALL BE AS RECOMMENDED BY SYSTEM'S MANUFACTURER.

2-COORDINATE FINAL CONDUIT SIZES WITH SYSTEM MANUFACTURER.

3-FINAL LOCATIONS OF DEVICES SHALL BE COORDINATED WITH ARCHITECTURAL FINISHES AND NFPA-72 REQUIREMENTS, THE LATTER TO PREVAIL IN CASE OF DISCREPANCIES.

4-LOUDSPEAKERS AND THEIR ENCLOSURES SHALL BE LISTED FOR VOICE/ALARM SIGNALING SERVICES.

5-EACH ELEVATOR CAR SHALL BE EQUIPPED WITH A SINGLE LOUDSPEAKER. PROVIDE AN ELEVATOR PAGING ZONE TO SERVE THE ELEVATOR GROUP.

6-PROVIDE SEPARATE ZONES TO SERVE STAIRWAY SPEAKERS. PROVIDE SPEAKERS IN ALL ENCLOSED STAIRWAYS EXCEEDING TWO STORES IN HEIGHT.

7-PROVIDE SEPARATE ZONES TO SERVE ELEVATOR LOBBY SMOKE DETECTORS. CONNECT THESE SMOKE DETECTORS TO FAP AND ELEVATOR RECALL PANEL.

8-VISIBLE APPLIANCES SHALL BE LOCATED NO MORE THAN 15 FT.(4572) FROM THE END OF THE CORRIDOR WITH A SEPARATION NO GREATER THAN 100 FEET(30.48m.) BETWEEN APPLIANCES.

9-FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA 101, NFPA 72 AND DEPT. DE BOMBEROS DE P.R. REQUIREMENTS. IN CASE OF DISCREPANCY THE STRINGEST CODE WILL APPLY.

GENERAL NOTES:

1-EMT CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4"(19) IPS MINIMUM SIZE.

2-EMT FITTINGS SHALL BE CONCRETE TIGHT.

3-ALL CONDUCTORS SHALL BE COPPER, STRANDED, THHN INSULATED #12 AWG MINIMUM SIZE, UNLESS OTHERWISE NOTED.

4-WIRING DEVICES AND PLATES SHALL BE IVORY COLORED, SPECIFICATION GRADE.

5-ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND LUMA REGULATIONS, LATEST EDITION.

6-INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7-DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL FIELD CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8-ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9-CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

10-RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11-ELECTRICAL CONTRACTOR SHALL PROVIDE POWER & CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER SECTION OF THE SPECIFICATIONS. FINAL CONNECTION SHALL BE DONE UNDER THE SUPERVISION OF THE RESPECTIVE CONTRACTORS.

12-CONTRACTOR MUST SUPPORT ALL RECESSED FIXTURES INDEPENDENTLY FROM HUNG CEILING SUPPORT.

13-ANY UNDERGROUND CONDUIT FOR SECONDARY FEEDER SHALL BE BURIED AT A MINIMUM DEPTH OF 36"(914) BELOW FINISHED GRADE, UNLESS COVERED BY 4"(101) CONCRETE ENVELOPE IN WHICH CASE MINIMUM DEPTH SHALL BE 18"(457) BELOW FINISHED GRADE.

14-IN CASE OF SUBSTATION WITH PRIMARY METERING, A 3/4"(19) PVC SCHEDULE 40 EMPTY CONDUIT SHALL BE INSTALLED BETWEEN PRIMARY METER COMPARMENT AND MAIN TELEPHONE CABINET.

15-LAUNDRY RECEPTACLES SHALL BE INSTALLED 6"(152) ABOVE WATER FAUCETS SERVING WASHER.

ADVANCE PRINT
NOT FOR CONSTRUCTION

JRR
JUAN R. ROBLEDO & ASOCIADOS
INGENIEROS, C.S.P.
designed Ing. A. Calzada lic.: 15089
drawn by lic.:
This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO EXPRESO Y ESCRITO DE LOS MISMOS RECIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALER, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y QUE HE PREPARADO LAS ESPECIFICACIONES PARA ESTE PROYECTO, QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS RECLAMENTADORAS O CORPORACIONES PUBLICAS QUE TENGAN JURISDICCION SOBRE LA OBRA. QUE LA CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES SI HA COMENZADO CAMBIARA CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PEQUEÑO&MEDIANA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA SECCION EMPRENDEDORA, SEGÚN APLICABLE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

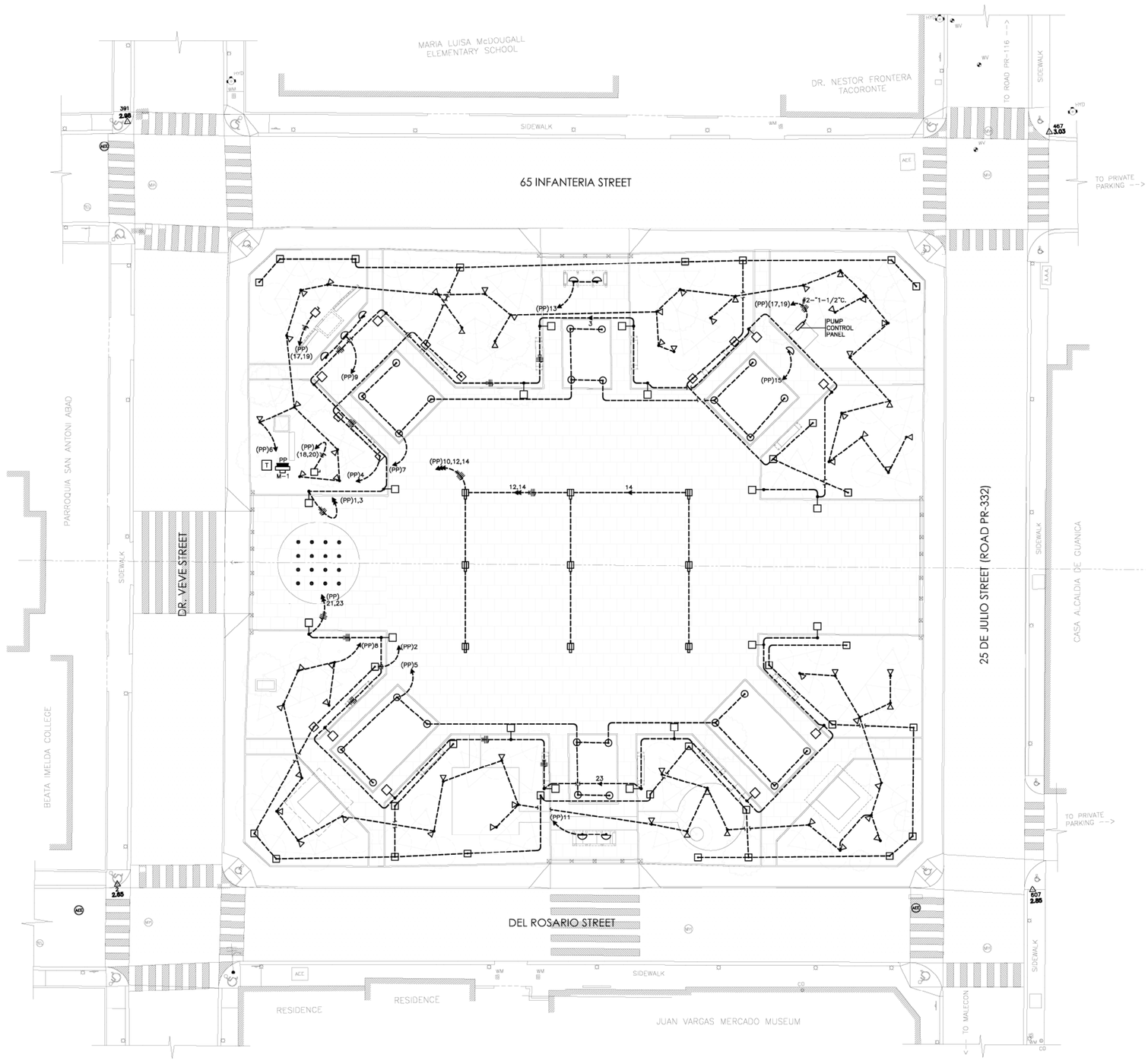
#	fecha	descripcion	por
01			

Desarrollo de Diseno Esquematico

LEGEND & NOTES

drawn by
checked by
file
plot scale 1-1
trg num 22260

drawing sheet number:
E-0



SITE LEGEND:

- "BALI" LED HIGH LIGHT FIXTURE W/LAMPPOST, BY ESCOFET OR APPROVED EQUAL.
- "CREAM" MEDIUM LED LIGHT FIXTURE W/COLUMN BY ESCOFET, OR APPROVED EQUAL.
- "CREAM" LOW LED LIGHT FIXTURE W/CUBE BASE BY ESCOFET, OR APPROVED EQUAL.
- LANDSCAPE AMBIENT GROUND LIGHTING.
- LANDSCAPE AMBIENT FLOOD LIGHTING.
- FLOOR LEVEL UTILITY ELECTRICAL RECEPTACLES
- SERVICE CONNECTION TO NEW FOUNTAIN PUMP HOUSE
- SERVICE CONNECTION TO NEW WALK THRU WATER FOUNTAIN FEATURE.

ELECTRICAL SITE PLAN

Scale 1/16" = 1'-0"

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC - Consultoria (ASD), REPRODUCCION O UTILIZACION SIN LA AUTORIZACION ESCRITA DE LOS MISMOS HA SIDO EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALAU, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y ESPECIFICACIONES, QUE HE PREPARADO O SUPERVISADO SU PREPARACION, ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS RECLAMENTADORAS O CORPORACIONES PUBLICAS QUE APLICAN A ESTE PROYECTO. ASIMISMO, CERTIFICO QUE LA CONSTRUCCION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PEERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE SEPTIEMBRE DE 2004, CONOCIDA COMO LA "LEY DE LA PE", 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 MI, MIS AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE EN CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OCPR.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01.			

Desarrollo de Diseno Esquematico

ELECTRICAL SITE PLAN

JRR JUAN R. REDONA & ASOCIADOS INGENIEROS, C.S.P.

designed Ing. A. Calzada lic.: 15089
drawn by lic.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1:1
trg num 22260

drawing sheet number:
E-1

ELECTRICAL CONSTRUCTION PLAN NOTES

GENERAL NOTES:

1-THESE PLANS COINCIDE WITH THE PLANS SUBMITTED AT "I.G.P.E."

2-OWNER IS RESPONSIBLE OF OBTAINING ALL FEDERAL, STATE, MUNICIPAL & PRIVATE REQUIRED PERMITS & RIGHT OF WAYS CONCERNING THIS TYPE OF PROJECT.

3-OWNER MUST CONTRACT THE SERVICES OF A PUERTO RICO LICENSED ENGINEER WHO WILL BE RESPONSIBLE OF INSPECTING THE WORK IN ACCORDANCE WITH NUMBER 7 CERTIFICATION LAW JULY 19, 1985, AS AMMENDED, AND WILL ENFORCE LUMA'S ELECTRICAL CONSTRUCTION PROJECT PLANS CERTIFICATION REGULATION. OWNER MUST NOTIFY LUMA, THE PRIVATE INSPECTOR DESIGNATION BEFORE PROJECT BEGINS.

4-ELECTRICAL CONTRACTOR SHALL PERFORM THIS WORK, AS DESIGNED ON THESE DRAWINGS. CONTRACTOR MUST OBSERVE THE BEST ELECTRICAL CONSTRUCTION INDUSTRY PRACTICES. INSTALLATION SHALL BE IN ACCORDANCE WITH LUMA'S & CONCERNING AGENCIES ADOPTED RULES & REGULATIONS, NEC, NESC CODES, IEEE, NFPA, NEMA & ANSI ADOPTED STANDARDS.

5-CONTRACTOR IS NOT AUTHORIZED TO MAKE CHANGES TO THIS DESIGN. CONTRACTOR IS RESPONSIBLE FOR CONSULTING THE DESIGNER OR PROJECT DESIGNATED INSPECTOR REGARDING ANY DOUBT IN PLANS, INTERPRETATION, WORK EXECUTION, TECHNICAL SPECIFICATION, EXISTING FIELD CONDITION, DESIGN CRITERIA OR DISCREPANCES THAT MAY APPEAR.

6-ELECTRICAL CONTRACTOR SHALL NOTIFY LUMA OF THE START OF CONSTRUCTION AT LEAST 15 DAYS BEFORE PROJECT START, CONTRACTOR SHALL DO SO BY FILING PREPA'S CONSTRUCTIONS START DOCUMENT.

7-ELECTRICAL CONTRACTOR AND PRIVATE INSPECTOR ARE RESPONSIBLE TO SCHEDULE, ASSIST, & COORDINATE WITH LUMA'S CORRESPONDING REGION DISTRIBUTION ENGINEERING DEPARTMENT A PRE-CONSTRUCTION MEETING.

8-ALL WORK ON ENERGIZED LINES, INCLUDING THE PROJECT FINAL CONNECTION, MUST BE DONE BY LUMA AND THE OWNER MUST ASSUME ALL THE EQUIPMENT, MATERIAL & LABOR COST. OWNER CVIA PROJECT'S CONTRACTOR MUST REQUEST TO LUMA A JOB QUOTE. THE QUOTE IS VALID FOR 3 MONTHS.

9-PERFORMING ANY KIND OF WORK ON ELECTRICAL RIGHT OF WAY WITHOUT LUMA'S WRITTEN AUTHORIZATION IS STRICTLY PROHIBITED.

10-LUMA WILL NOT APPROVE ANY CONNECTION OF PROJECTS THAT ARE INVADING RIGHT OF WAYS OR THAT DO NOT COMPLY WITH THE REQUIRED SECURITY SET BACKS.

SYSTEMS:

1-IT IS OWNER'S/CONTRACTOR RESPONSIBILITY TO PERFORM CABLE TESTS TO ALL PRIMARY AND SECONDARY FEEDERS AND STRESS CONES. TESTS RESULTS MUST BE IN ACCORDANCE WITH LUMA'S ESTABLISHED PARAMETERS FOR EACH TEST. TEST MUST BE PERFORMED IN COORDINATION WITH LUMA'S ENGINEERING DEPARTMENT'S INSPECTIONS OFFICE REPRESENTATIVE.

2-DURING CABLE INSTALLATION, CABLE MUST BE PROTECTED FROM HUMIDITY AND DAMAGES. CONTRACTOR IS RESPONSIBLE FOR INSTALLING CABLES USING RECOMMENDED PULLING TECHNIQUES IN ORDER NOT TO EXCEED SPECIFIED CABLE MAXIMUM PULLING TENSION.

3-MANHOLE COVERS TO BE INSTALLED AT GREEN PLANTING AREAS MUST BE PROTECTED USING A REINFORCED CONCRETE SLAB AS PER LUMA'S STANDARD URD-S2.

4-WHEN PROJECT LOCATION IS LESS THAN A MILE FROM SALTWATER BODIES, POLE RISER CONDUITS MUST BE EITHER PVC SCHEDULE 80 OR FIBERGLASS CONSTRUCTION AS APPROVED BY LUMA

5-UNDERGROUND CONDUIT DUCT BANK MUST BE INSPECTED BY LUMA BEFORE IT IS COVERED AND COMPACTED WITH EARTH.

6-ALL DUCT BANK EXPOSED TO VEHICULAR TRAFFIC MUST BE PROTECTED WITH A CONCRETE ENVELOPE. THOSE THAT ARE NEAR OTHER UTILITIES INSTALLATIONS MUST BE 18" MINIMUM SPACING FROM THEM.

7-THE QUANTITY OF SPARE FUSES THAT CONTRACTOR MUST SUPPLY IS THE SAME QUANTITY AS FUSES INSTALLED AT EACH SUBSTATION.

8-GROUNDING CONNECTORS TO BE USED FOR SUBSTATIONS MUST BE THERMO-WELD OR COMPRESSION TYPE.

9-CONTRACTOR MUST PROVIDE PULLING WIRE (FISHWIRE) AT EACH SPARE CONDUIT.

10-MAXIMUM GROUND RESISTANCE AT ALL DISTRIBUTION SYSTEMS MUST BE 10 OHMS. A GROUNDING ROD FOR NEUTRAL CONNECTION MUST BE INSTALLED FOR EVERY FOUR POLES OR EVERY 1,000 FEET AND IN ALL TRANSFORMERS.

11-TWO SPARE CONDUITS FOR FUTURE USE MUST BE INSTALLED AT EACH CONCRETE POLE BASE AS REQUIRED BY LUMA

12-CONCRETE POLE BASES MUST BE INSPECTED BY LUMA AT THE CONSTRUCTION PHASE.

MATERIALS:

1-ALL EQUIPMENT TO BE USED IN THE CONSTRUCTION HAS TO COMPLY WITH IEEE, ANSI, NEMA & ASTM STANDARDS.

2-CONTRACTOR IS RESPONSIBLE TO VERIFY WITH LUMA, PRIOR TO INSTALLATION, THAT ALL MATERIAL OR EQUIPMENT TO BE USED IS LUMA APPROVED. LUMA RESERVES THE RIGHT OF ACCEPTING ANY EQUIPMENT TO BE TRANSFERRED TO THEM.

3-ALL MATERIAL & EQUIPMENT (INCLUDING TRANSFORMERS & SUBSTATION ENCLOSURES) TO BE INSTALLED WITHIN ONE (1) MILE OR LESS OF SALTWATER BODIES MUST BE CONSTRUCTED IN STAINLESS STEEL.

4-FOR UNDERGROUND SYSTEMS, USE PRIMARY CABLES WITH 15KV STRESS CONE FOR DISTRIBUTION VOLTAGES AND 46KV STRESS CONE FOR 38KV VOLTAGE.

5-FOR OVERHEAD SYSTEMS, USE 15KV POLYMER INSULATORS FOR DISTRIBUTION VOLTAGES AND 46KV POLYMER INSULATORS FOR 38KV VOLTAGE.

6-CONTRACTOR IS RESPONSIBLE FOR PROPERLY MARKING ALL TRANSFORMERS TO BE TRANSFERRED TO LUMA WITH A PROPERTY NUMBER PROVIDED BY THE CORRESPONDING DISTRIBUTION ENGINEERING DEPARTMENT.

SPECIAL NOTES:

1-PROJECT OWNER SHALL PAY LUMA THE AMOUNT OF $264.00 FOR THE EXISTING ELECTRICAL SYSTEM IMPROVEMENTS.

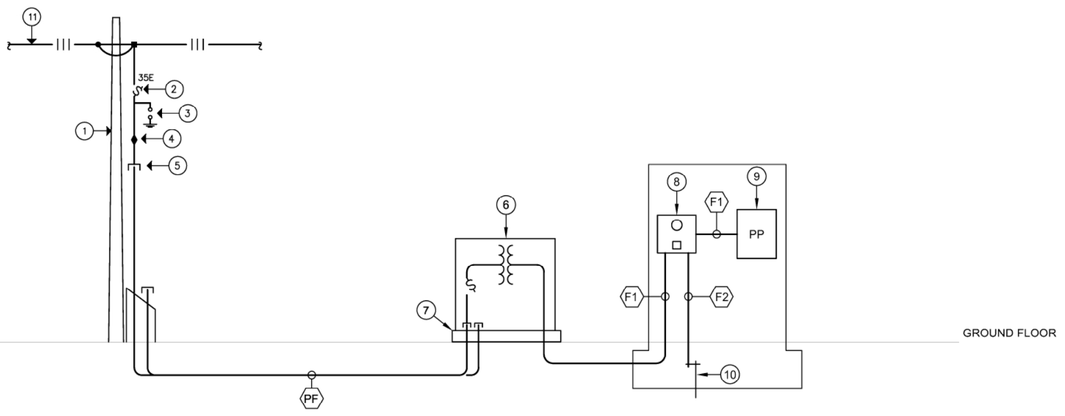
2-LUMA WILL NOT ENERGIZE THE PROJECT UNTIL THE OWNER HAS ESTABLISHED THE REQUIRED RIGHT OF WAYS IN ACCORDANCE WITH "REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA". THIS NOTE APPLIES TO ALL REQUIRED RIGHT OF WAY, INSIDE & OUTSIDE THE PROPERTY LIMITS.

3-THE INSTALLATION OF THE METERING SYSTEMS HAS TO BE COORDINATED WITH THE REGIONAL METERING OFFICE. DESIGNER OR ELECTRICAL CONTRACTOR HAS TO CONSULT WITH THIS OFFICE ABOUT MATERIALS & EQUIPMENTS TO BE USED AND EQUIPMENT LOCATION.

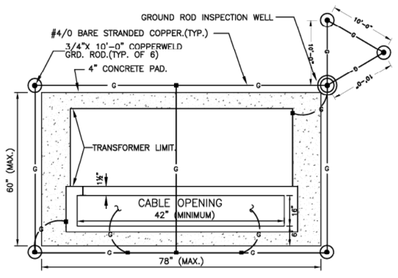
4-THE INSTALLATION OF ELECTRICAL SUBSTATIONS, TRANSFORMERS OR ANY OTHER ELECTRICAL EQUIPMENT OVER SEWER SYSTEM, WATER LINES OR ANY OTHER UTILITIES IS PROHIBITED.

5-PRIOR TO PURCHASING ANY METERING EQUIPMENT, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH LUMA METERING SECTION THE AVAILABILITY OF EQUIPMENTS TO BE SUPPLIED BY LUMA.

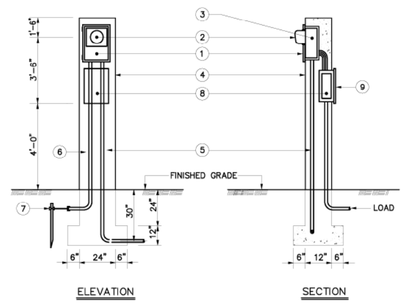
6-IF THIS PROJECT REQUIRES LUMA BULK POWER RATE CONTRACT, WHICH IS REQUIRED TO BE SIGNED PRIOR TO ENERGIZING THE PROJECT. THE LOCATION, EQUIPMENT AND METER TYPE TO BE USED SHALL BE COORDINATED WITH "OFICINA IRREGULARIDADES EN EL CONSUMO DE ENERGIA ELECTRICA-MEDICION". SUPERVISOR AT SAN JUAN REGIONAL OFFICE.



ONE LINE DIAGRAM
N.T.S.



PAD MOUNTED TRANSFORMER GRD. DETAIL
N.T.S.

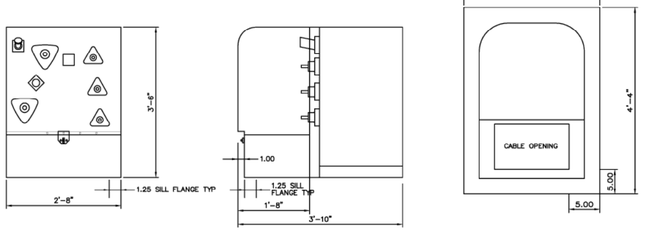


ELEVATION SECTION

CONCRETE PEDESTAL FOR A VANDAL PROOF ELECTRICAL METER INSTALLATION
N.T.S.

CONCRETE PEDESTAL – ITEMS DESCRIPTION:

1. STAINLESS STEEL DOOR 16"W x 24"HC 1/8" THICK WITH 2–HINGES AND PADLOCKING FACILITIES. DOOR SHALL BE PAINTED WITH AN ANTIRUST PAINT.
2. LEXAN GLASS OR APPROVED EQUAL.
3. ELECTRICAL METER BASE, 200A, 120/240, 1 PHASE, 3 WIRES; W/100A, 250V, 2P M.C.B.
4. STEEL REINFORCED CONCRETE PEDESTAL.
5. INCOMING FEEDER.
6. 1#6 THW WIRE (G.G.) IN 1" RIGID PVC SCHEDULE 40 CONDUIT.
7. 5/8" x 10'–0" COPPER GROUND ROD WITH A BRASS CLAMP AT 6" B.F.G.
8. LIGHTING PANEL AS PER PANEL SCHEDULE.
9. WEATHER AND VANDAL PROOF DOOR FOR PANEL ENCLOSURE PROVIDED WITH PADLOCKING FACILITIES.



PAD MOUNTED TRANSFORMER DETAIL
N.T.S.

EQUIPMENT SCHEDULE:

1. NEW POLE WITH NEW RISER TO DONE BY CONTRACTOR URD-1A, 4 & 5.
2. 100A, 27KV 150KVBIL OPEN FUSE CUTOUT WITH 10E FUSES.
3. 10KV OUTDOOR TYPE M.O.V. LIGHTNING ARRESTER.
4. 15KV OUTDOOR TYPE PREFABRICATED STRESS CONE.
5. SEALING FITTINGS. TYPE & SIZE AS REQUIRED.
6. PAD MOUNTED TRANSFORMER 50KVA, OISC, NON-PCB, STAINLESS STEEL CONSTRUCTION. COPPER WINDING, BIL AS PER PREPA'S STANDARDS 7.62KV-240/120V-1Ø WITH ELBOW TYPE CONNECTORS, 10KV LIGHTING ARRESTERS, 5E 15KV FUSES. LOW LOSSES CONSTRUCTION ACCORDING TO DOE & PREPA STDS. PREPA APPROVED TYPE.
7. 6" CONCRETE PAD.
8. LUMA'S COMBINATION METER SOCKET & MAIN BREAKER. 120/240V-1Ø-3W-S/N-200 AMPS. WITH ONE 200 AMPS-2P MAIN BREAKER.
9. NEW PANELBOARD 1Ø-3W-S/N-120/240V-225A M.L.O. NEMEA 4X SS, VANDALPROOF. SEE SCHEDULE.
10. 10'-0" x 5/8" COPPERWELD GROUND ROD.
11. NEW 3Ø-4W-13.2KV OVERHEAD LINE TO BE CONSTRUCTED PART OF THIS PROJECT.
12. RAINFORCED CONCRETE PEDESTAL.

FEEDER SCHEDULE:

- PF → 1#2 AWG-15KV-COPPER-TRXLPE-90C-SHIELDED & PVC JACKET & 1#2AWG RHH IN 3" PVC SCHED. 40 C. & 1-3" PVC SCHED. 40 PVC SPARE CONDUIT.
- F1 → 3#3/0 AWG & 1#6 (GD) - 2 1/2" PVC CHED. 40 C.
- F2 → 1#6 GROUND GREEN CONDUCTOR - 1"PVC SCHED 40 C.

PANEL SCHEDULE

PANEL DESCRIPTION: PP	LOCATION: METER CONCRETE PEDESTAL
VOLTS: 1ø–3W–S/N–120/240V	AMPS: 225A M.L.O.
MOUNTING: FLUSH	I.C.: 10,000 A.I.C.
PANEL TYPE: NQOD	REMARKS: NEMA 4X S.S.

LOAD DESCRIPTION	FRAME	TRIP	CKT. NO.	CKT. NO.	TRIP	FRAME	LOAD DESCRIPTION
PLAZA POLES	QO	20	1	2	20	QO	BOLLARDS
PLAZA POLES	QO	20	3	4	20	QO	BOLLARDS
BOLLARDS	QO	20	5	6	20	QO	ACCENT LIGHTS
BOLLARDS	QO	20	7	8	20	QO	ACCENT LIGHTS
FLOOD LIGHTS	QO	20	9	10	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	11	12	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	13	14	20	QO	FLOOR RECEPTACLES
FLOOD LIGHTS	QO	20	15	16	20	QO	SPARE
PUMP (7.5HP)	QO	100	17	18	20	QO	SPARE
			19	20	20	QO	SPARE
PLAZA POLES	QO	20	21	22	20	QO	SPARE
PLAZA POLES	QO	20	23	24	20	QO	SPARE
SPARE	QO	20	25	26	20	QO	SPARE
SPARE	QO	20	27	28	20	QO	SPARE
SPARE	QO	20	29	30	20	QO	SPARE
SPARE	QO	20	31	32	20	QO	SPARE
SPARE	QO	20	33	34	20	QO	SPARE
SPARE	QO	20	35	36	20	QO	SPARE
SPARE	QO	20	37	38	20	QO	SPARE
SPARE	QO	20	39	40	20	QO	SPARE
SPARE	QO	20	41	42	20	QO	SPARE

ADVANCE PRINT
NOT FOR CONSTRUCTION

trg architects
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1.- ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISEÑO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIERA USO, REPRODUCCION O DIVULGACION TOTAL O PARCIAL SIN EL CONSENTIMIENTO EXPRESO PREVIO ES SIN NUESTRO CONSENTIMIENTO ESCRITO.

2.- YO, ARNALDO CALZADA PALER, LICENCIA NUMERO 15089, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑA ESTOS PLANOS Y ESPECIFICACIONES Y QUE HE PREPARADO LOS MISMOS. POR LO TANTO ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLE DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES EN LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS RECLAMENTADORAS O CORPORACIONES PUBLICAS QUE APLIQUEN A ESTE PROYECTO. ASUMO LA RESPONSABILIDAD DE ESTOS PLANOS Y CERTIFICACIONES SI HA CAMBIADO CUALQUIERA CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSIÓN POR LA INDUSTRIA PUERTORRIQUEÑA" Y CON LA LEY NUM. 319 DE 15 DE SEPTIEMBRE DE 2004, SEGÚN ENMENDADA, CONOCIDA COMO LA "LEY DE SECCIÓN ENMENDADA, SECCIÓN APLICABLE. 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.

Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01			

Desarrollo de Diseno Esquematico

PANEL SCHEDULE

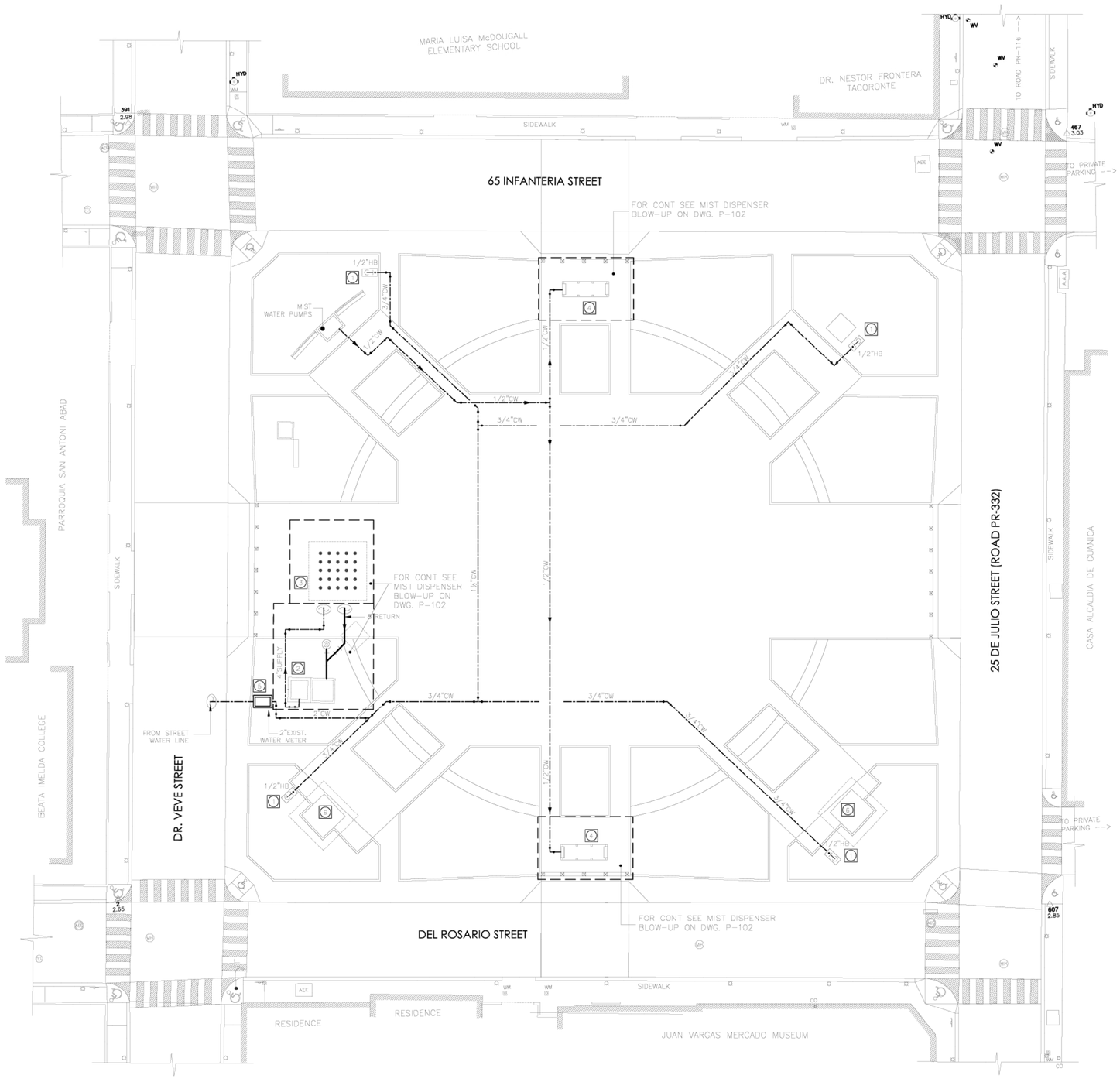
JRR
JUAN R. ROSARIO & ASOCIADOS
INGENIEROS CSP

designed Ing. A. Calzada lic.: 15089
drawn by lic.:

This drawing is not authorized to be released for contract until fully approved by Architect, Owner and all corresponding Government Agencies including LUMA and J.R.T.P.R.

drawn by
checked by
file
plot scale 1 : 1
trg num 22260

drawing sheet number:
E-2



SITE LEGEND:

- OUTDOOR HOSE BIBB W/LOCKSET
- WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
- WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
- SATELLITE MIST DISPENSE
- LANDSCAPE IRRIGATION SYSTEM.
- EXISTING KIOSKO
- NEW WALK THRU FOUNTAIN SELF PRE-BUILT SEMI UNDERGROUND PUMP SHED
- NEW WATER CISTERN ADJOINING SEMI UNDERGROUND PUMP SHED.

WATER PLUMBING SITE PLAN

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

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DEL TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO PREVIO Y EXPRESO DE TRG ARCHITECTS PSC ESTA EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA DISPUESTO EN LA LEY 14-2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 139 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA; SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OOPE.



Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11330 certifico que soy el profesional que diseñó estos planos y 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 Codigos de Construccion Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion. Certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con la dispuesto en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1938, según enmendada; Ley núm. 96 de 6 de julio de 1978, según enmendada; según aplique). Reconozco que cualquier declaracion falsa o falsificación de los hechos que se hayo producidos 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 OOPe.

FECHA: JULIO, 2023

ADG ENGINEERING, PSC
CONSULTING ENGINEERS
PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

ADG ENGINEERING, PSC
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
1	07.23.22	Desarrollo Diseno Esquematico	ER
2	01.15.23	Desarrollo Diseno Preliminar	ER

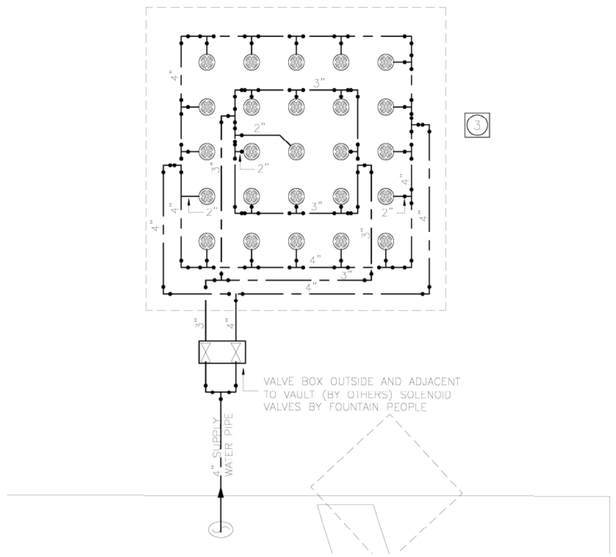
Desarrollo de Diseno Esquematico

WATER PLUMBING
SITE PLAN

drawn by
checked by A. DAJER
file 22260 AS01
plot scale 1=1
trg num 22260

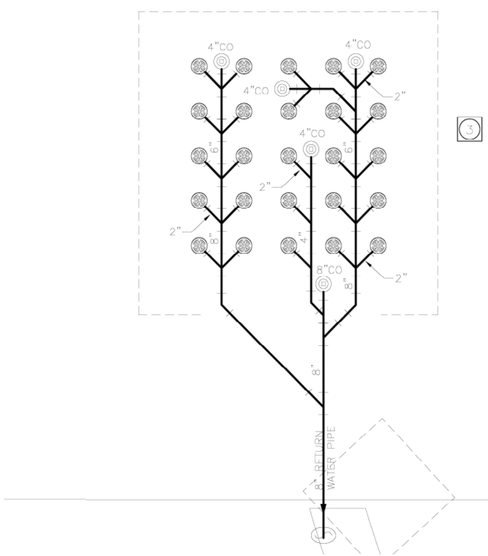
drawing sheet number:
P-101

SVADGENG Drawings\Projects 2023\23-063 P-101.dwg, Thursday, July 20, 2023 2:12:33 PM, Adobe PDF



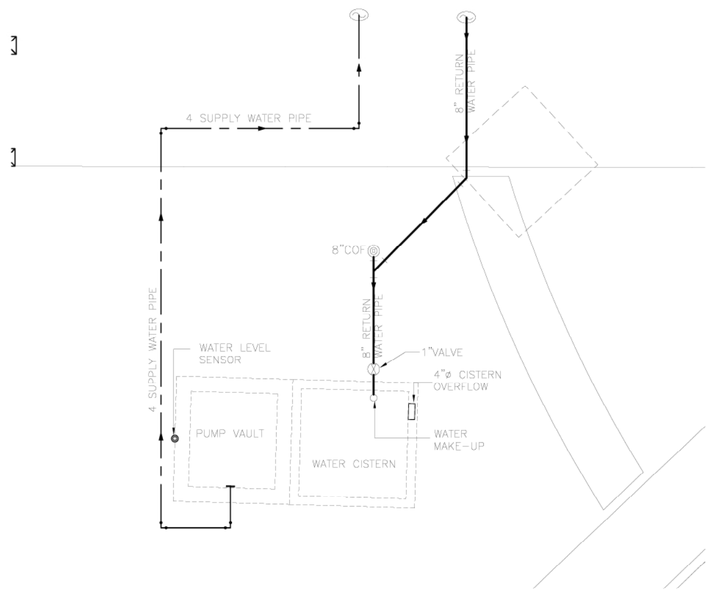
WALKOVER SUPPLY WATER
WATER FOUNTAIN BLOW-UP

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



WALKOVER RETURN WATER
FOUNTAIN BLOW-UP

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

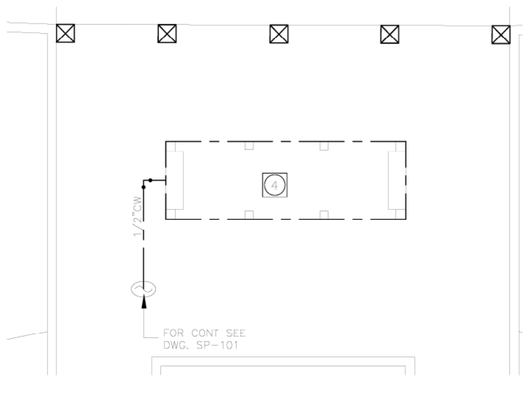


WALKOVER WATER FOUNTAIN
PUMP VALVES & WATER TANK BLOW-UP

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

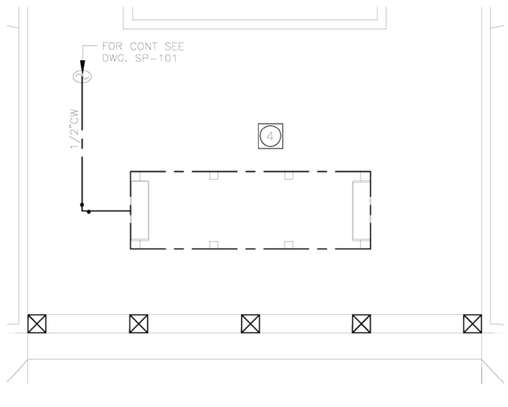
LEGEND:

- OUTDOOR HOSE BIBB W/LOCKSET
- WALKOVER WATER FOUNTAIN PUMP SHED/MONUMENT BASE
- WALKOVER WATER FOUNTAIN & MAIN MIST SYSTEM DISPENSE
- SATELLITE MIST DISPENSE
- LANDSCAPE IRRIGATION SYSTEM.
- EXISTING KIOSKO



MIST DISPENSER BLOW-UP

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



MIST DISPENSER BLOW-UP

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

WATER FOUNTAIN EQUIPMENT
EQUAL OR SIMILAR TO FOUNTAIN PEOPLE

EQUIPMENT	DESCRIPTION
PUMP VAULT	MODEL DBVB-SERIES. PREFABRICATED UNDERGROUND ENCLOSURE FOR PUMPS, FILTRATION AND ELECTRICAL CONTROLS. CONTAINING A SELF-PRIMING FILTER PUMP WITH INTEGRATED STRAINER BASKET; SAND FILTER UNIT DISPLAY PUMP; WATER FILL STATION ASSEMBLY (IF APPLICABLE), CHECK VALVE(S) OR COMBINATION FLOW METER/CHECK VALVE OPTION, 6" VENT CONNECTIONS WITH VENTILATION FAN; INTEGRAL SUMP WELL AND AVAILABLE 2" GRAVITY DRAIN CONNECTION; AUTOMATIC SUBMERSIBLE PUMP, U.L. 508 LISTED CONTROL PANEL. (NEMA 4) INCLUDES MAIN DISCONNECT SWITCH; PUMP MOTOR STARTER WITH CIRCUIT BREAKER (SINGLE PHASE APPLICATION), MOTOR STARTER WITH ADJUSTABLE, SOLID-STATE MOTOR PROTECTOR (THREE PHASE APPLICATIONS). 24/7 TWO-CHANNEL PROGRAMMABLE TIME CLOCK FOR PUMP AND (LIGHTS IF APPLICABLE). NOTE GFCI BARKERS AND WATER LEVEL/LOW LEVEL CUTOFF CONTROL CIRCUITRY INCLUDED.
WATER FOUNTAIN NOZZLE	FIAC-1000 SERIES FOUNTAIN-IN-A-CAN. A "POUR IN PLACE"FLUSH MOUNT SPRAY EFFECT WITH 360 DEGREE LIGHT FIXTURE. THE ASSEMBLY INCLUDES A STAINLESS STEEL HOUSING WITH 1/4" THICK STAINLESS STEEL DRAIN COVER AND CONTAINS (1) INTERCHANGEABLE FOUNTAIN NOZZLE. 2" INLET CONNECTION, 2" DRAIN CONNECTION.
WATER LEVEL PROBE	MODEL WLS-CG-3 SERIES. POLYPROPYLENE HEAD CONSTRUCTION, 3 OR 5 PROBE ELECTRICAL CONNECTIONS, ELECTRODE ARE STAINLESS STEEL PIPE THREAD 1½". CABLE CONNECTION SCREW TERMINALS.
CISTERN WATER FLOW	FWD-300B BRONZE HOUSING WITH AN INTEGRAL WATERSTOP FLANGE AND A LARGE FULL-FACE REMOVABLE STRAINER GRILL. THE HOUSING INCLUDES A FEMALE THREADED CONNECTION AND A PERMANENTLY AFFIXED BONDING LUG. CONSTRUCTION IS CAST BONZE AND BRASS WITH A NATURAL FINISH.
TOUCH ACTIVATOR (FOR AND MIST SYSTEM)	WATER ODYSSEY – MODEL TOUCH N' GO BOLLARD
MIST SYSTEM PRE-FARRICATED PUMP AND FILTER STATION	ADVANCE MISTING SYSTEM DIRECT DRIVE MISTING ENCLOSED 1.5 HP HIGH PRESSURE PUMP STATION WITH FILTER. ADDITIONAL ACCESSORIES, SCALE X FILTER, AND LOW PRESSURE SWITCH. TUBING FROM PUMP TO NOZZLE MANIFOLDS TO BE 1000 PSI RATED HIGH PRESSURE NYLON.

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifico que soy el profesional que diseñó estos planos y 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 Codigos de Construccion Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion. Certifico, además, que en la preparación de estos planos y especificaciones se ha cumplido cabalmente con la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1958, 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.

FECHA: JULIO, 2023

ENGINEERING, PSC
CONSULTING ENGINEERS

PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

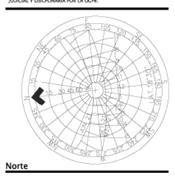
ENGINEERING, PSC
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DEL TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O MODIFICACION DE LOS MISMOS SIN EL CONSENTIMIENTO ESCRITO ESPECIFICAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIEN CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION. CERTIFICO, ADEMAS, QUE EN LA PREPARACION DE ESTOS PLANOS Y ESPECIFICACIONES SE HA CUMPLIDO CABALMENTE CON LA DISPUESTO EN LA LEY 14-2004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 319 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN ENMENDADA; SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO O POR NEGLIGENCIA YA SEA POR MI, MIS AGENTES O TERCEROS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO, ME HACEN RESPONSABLE DE CUALQUIER ACCION JUDICIAL Y DISCIPLINARIA POR LA OGPe.



nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	07.25.22	Desarrollo Diseno Esquematico	ER
1	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING
BLOW-UPS

drawn by A
drawing sheet number:
checked by A. DAJER
file 22260 AS01
plot scale 1=1
trg num 22260

P-102

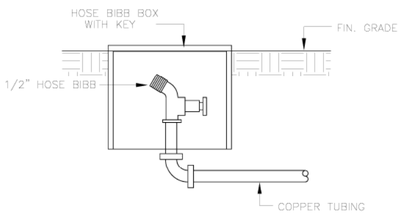
S:\ADG\ENG Drawings\Projects 2023\23-063 Plaza Publica Guanica\23-363 P-102.dwg, Thursday, July 20, 2023 2:13:00 PM, Adobe PDF

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE DEPARTMENT OF HEALTH OF P.R., THE LOCAL BUILDING CODE, THE INTERNATIONAL PLUMBING CODE (2018 EDITION PUERTO RICO AQUEDUCTS AND SEWER AUTHORITY (PRASA)) AND THE SPECIFICATIONS ISSUED FOR THIS PROJECT.
2. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY, TO COMPLY WITH CODES REQUIREMENTS OR AS SHOWN ON THESE DRAWINGS.
3. ALL HORIZONTAL PORTIONS OF SOIL WASTE STACKS & BRANCHES SHALL SLOPE 1/8" PER FEET, EXCEPT FOR SIZES 3" & SMALLER THAT SHALL BE 1/4" PER FEET.
4. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS THE PIPE DIAMETER UP TO 4".
5. THE CONTRACTOR SHALL FURNISH AND SET IN PLACE BEFORE CONCRETE POURING ALL NECESSARY SLEEVES FOR WASTE OR SOIL, COLD OR HOT WATER LINES. THESE SLEEVES SHALL BE AS PER THE SPECIFICATIONS.
6. THE PLUMBING CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE PIPING TO AVOID ANY INTERFERENCE WITH PIPING AND/OR EQUIPMENT BEING INSTALLED BY OTHER CONTRACTORS.
7. FOR FIXTURES AND/OR EQUIPMENT NOT LISTED IN THE SCHEDULE, SEE THE SPECIFICATIONS.
8. ALL ABOVE GROUND WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER, SOLDER JOINTS.
9. CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS.
10. ALL DRAINS TO BE CAST IRON UNDER AND ABOVE FLOOR SLABS AND VENTILATION LINES AT WALLS.
11. THE CONTRACTOR SHALL VERIFY IN FIELD ALL INVERT ELEVATIONS AND SHALL MAKE ANY NECESSARY ADJUSTMENT AS REQUIRED BY FIELD CONDITIONS AND AS REQUIRED, TO OBTAIN THE PROPER SLOPES.
12. IT IS THE INTENTION OF THE DRAWINGS TO CALL FOR FINISHED WORK, COMPLETE, TESTED AND READY FOR OPERATION. MINOR DETAILS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND FOR FUNCTIONING AND OPERATION OF THE SYSTEM SHALL FORM PART OF THE WORK TO BE DONE BY THE CONTRACTOR.
13. BIDDERS SHALL VISIT THE BUILDING AND ACQUAINT THEMSELVES WITH THE CONDITIONS AS THEY ACTUALLY EXIST AND VERIFY DIMENSIONS, LOCATIONS AND DETAILS REQUIRED TO COMPLETE THE WORK, WHICH WILL BE THE ONLY OPPORTUNITY FOR POTENTIAL CONTRACTOR TO SEE THE SITE. FAILURE TO VISIT THE PROJECT AREA WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER OF FURNISHING ALL MATERIAL AND PERFORMING ALL WORK REQUIRED FOR THE COMPLETION OF THE CONTRACT. VISITS TO THE PROJECT AREA SHALL BE ARRANGED THROUGH THE CONTRACTING OFFICER.
14. CONTRACTOR SHALL DISPOSE OF THE REMOVED ITEMS SELECTED BY OWNER FOR DISPOSAL, AND SHALL STORE THE ITEMS SELECTED FOR SALVAGE IN THE PLACE INDICATED BY OWNER. DISPOSAL SHALL BE PERFORMAMED IN ACCORDANCE WITH CURRENT LAWS AND REGULATIONS.
15. THE CONTRACTOR SHALL USE MATERIALS FOR CUTTING AND PATCHING THAT ARE IDENTICAL TO EXISTING MATERIALS. BEFORE CUTTING, EXAMINE THE SURFACES TO BE CUT AND PATCHED AND THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. IF UNSAFE OR OTHERWISE UNSATISFACTORY CONDITIONS ARE ENCOUNTERED, TAKE CORRECTIVE ACTION BEFORE PROCEEDING WITH THE WORK. CUT THE WORK USING SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING. NOT HAMMERING AND CHOPPING. CUT THROUGH CONCRETE USING CUTTING MACHINE SUCH AS A CARBOURUNDUM SAW OR CORE DRILL TO INSURED NEAT HOLE. RESTORE EXPOSED FINISHED OF PATCHED AREAS AND, WHERE NECESSARY, EXTEND FINISH RESTORATION INTO RETAINED ADJOINING AND REFINISHING. WHERE PATCHED OCCURS IN A SMOOTH PAINT SURFACES, EXTEND FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING PATCH, AFTER PATCHED ARE HAS RECEIVED PRIME AND BASE COAT.
16. CONTRACTOR SHALL CONSULT THE OWNER AS TO WORKING SPACE AND AREA FOR THE LOCATION OF STORING SHACK OR TRAILER. STORAGE SPACE IN LIMITED AND POSSIBLE NONE EXISTANT. CONTRACTOR SHALL PROVIDE A TRAILER
17. THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT, AS NEEDED, TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
18. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED WITH THE APPROVAL OF THE OWNER IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.
19. CONTRACTOR SHALL LOCATE IN FULLY ACCESSIBLE POSITIONS ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED.
20. WITH RESPECT TO THE EQUIPMENT AND PIPING, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT THE SITE AND SHALL VERIFY ALL MEASUREMENTS. NO ALLOWANCES SHALL BE GRANTED BECAUSE OF DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE INDICATED ON DRAWINGS. THE MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
21. CONTRACTOR SHALL VERIFY ON FIELD THE EXISTING COLD WATER AND SANITARY FACILITIES PRIOR TO START THE WORK.
22. CONTRACTOR SHALL INSTALL A GATE VALVE IN EACH COLD WATER LINE BEFORE ENTER TO THE BUILDING TO ISOLATE THE THAT AREA FROM THE OTHERS.

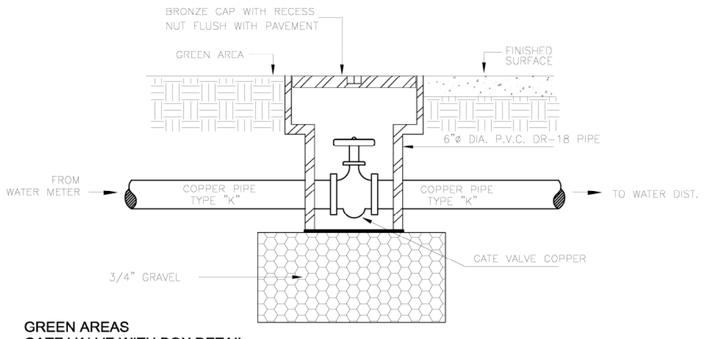
PIPING MATERIAL SCHEDULE

SERVICE	PIPE MATERIAL
COLD WATER – ABOVE GROUND	COPPER TYPE L
COLD WATER – UNDER GROUND	COPPER TYPE K
HOT WATER – ABOVE GROUND	COPPER TYPE L
HOT WATER – UNDER GROUND	COPPER TYPE K
SANITARY – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
SANITARY – UNDER GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – ABOVE GROUND	DWV SCH. 40 – ASTM D 2662
STORM SEWER – UNDER GROUND	DWV SCH. 40 – ASTM D 2662



HOSE BIBB WITH BOX DETAIL

NOT TO SCALE



GREEN AREAS
GATE VALVE WITH BOX DETAIL

NOT TO SCALE

PLUMBING LEGEND:

- CW — COPPER COLD WATER LINE – DIAMETER AS INDICATED
- 90° PLUMBING COPPER (WELDED) ELBOW
- 90° PLUMBING COPPER (WELDED) ELBOW TURNED DOWN
- SHUT OFF VALVE.
- HOSE BIBB–DIAMETER AS INDICATED
- SANITARY LINE–DIAMETER AS INDICATED
- SANITARY VENT LINE–DIAMETER AS INDICATED
- 45° LONG TURN ELL–DIAMETER AS INDICATED.
- 45° SINGLE "Y"–DIAMETER AS INDICATED.
- 45° WYE BRANCH WITH SIDE INLET FOR VENT. –DIAMETER AS INDICATED.
- CLEANOUT FLUSH WITH WALL (COW) AT 12" ABOVE FINISH FLOOR – DIAMETER AS INDICATED.
- CLEANOUT FLUSH WITH PLUG (COP) AND CONCRETE BLOCK. DIAMETER AS INDICATED
- FLOOR DRAIN (FD) WITH TRAP SEE DETAIL ON DWG. DIAMETER AS INDICATED.
- POINT OF CONNECTION (TIE–IN)–NUMBER INDICATES NUMBER OF CONNECTIONS.
- P–1 INDICATES PLUMBING FIXTURE DESIGNATION –SEE PLUMBING FIXTURES SCHEDULE

Yo, ANTONIO J. DAJER GUERRA, número de Licencia 11530 certifica que soy el profesional que diseñó estos planos y 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 la disputa en la Ley 14-2004, según enmendada, conocida como la "Ley para Inversión por la Industria Puertorriqueña" y con la Ley Núm. 139 de 15 de mayo de 1938, 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.

FECHA: JULIO, 2023

ENGINEERING, P.S.C.
CONSULTING ENGINEERS
PRELIMINARY DRAWING
NOT FOR BID/CONSTRUCTION

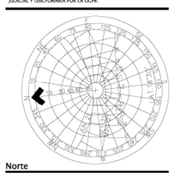
ENGINEERING, P.S.C.
CONSULTING ENGINEERS
I.L.A. Bldg. Suite 703
1055 Kennedy Ave.
San Juan, P.R. 00920
TEL: (787) 749-8747
FAX: (787) 749-0535
EMAIL: adajer@adgeng.com

trg architects
A Professional Services Corporation
Postal Office Box 9032795
San Juan, Puerto Rico 00902-3795
1.787.469.5688
trg@trgarchitects.com

NOTAS IMPORTANTES:

1. ESTE DOCUMENTO Y TODA LA INFORMACION, CONCEPTOS DE DISENO Y NOTAS CONTENIDAS EN ESTE SON LA EXCLUSIVA PROPIEDAD DE TRG ARCHITECTS PSC. CUALQUIER USO, REPRODUCCION O DISTRIBUCION DE ESTE SIN EL CONSENTIMIENTO ESCRITO DE TRG ARCHITECTS PSC ES EXPRESAMENTE PROHIBIDO SIN NUESTRO CONSENTIMIENTO ESCRITO.

2. YO, EDUARDO A. RIOS MARTINEZ, LICENCIA NUMERO 13958, CERTIFICO QUE SOY EL PROFESIONAL QUE DISENA ESTOS PLANOS Y ESPECIFICACIONES COMPLEMENTARIAS. ADEMAS CERTIFICO QUE ENTIENDO QUE DICHOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APLICABLES DE LOS REGLAMENTOS Y CODIGOS DE LAS AGENCIAS, JUNTAS REGLAMENTADORAS O CORPORACIONES PUBLICAS CON JURISDICCION VIGENTES AL MOMENTO DE LA PREPARACION DE ESTOS PLANOS Y CERTIFICACIONES SE HA CUMPLIDO CABALMENTE CON LO DISPUESTO EN LA LEY 14 DE 8 DE JUNIO DE 20004, SEGUN ENMENDADA, CONOCIDA COMO LA "LEY PARA LA INVERSION POR LA INDUSTRIA PUERTORRIQUENA" Y CON LA LEY NUM. 139 DE 15 DE MAYO DE 1938, SEGUN ENMENDADA; LEY NUM. 96 DE 6 DE JULIO DE 1978, SEGUN APLIQUE. RECONOZCO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO POR DESCONOCIMIENTO 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 DISCIPLINARIA POR LA OGPe.



Norte

nombre y direccion del proyecto:
REMODELACION PLAZA MANUEL JIMENEZ MESA
Avenida 25 de Julio
Guanica, Puerto Rico 00785

nombre y direccion del cliente:
Hon. Ismael Rodriguez Ramos, Alcalde
Gobierno Municipal de Guanica, PO Box 795 Guanica, Puerto Rico 00653
787 821-2777

#	fecha	descripcion	por
01	07.23.22	Desarrollo Diseno Esquematico	ER
1	01.15.23	Desarrollo Diseno Preliminar	ER

Desarrollo de Diseno Esquematico

PLUMBING NOTES, SCHEDULE & DETAILS

drawn by –
checked by A. DAJER
file 22260 A501
plot scale 1=1
trg num 22260

drawing sheet number:
P-201

S:\ADG\ENG Drawings\Projects 2023\23-063 Plaza Publica Guanica\23-363 SY-201.dwg, Thursday, July 20, 2023 9:46:05 AM, Adobe PDF

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) **Section 106 NHPA Effect Determination - Architecture**	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipality of Guanica	
Program ID Number: PR-CRP-000823	
Project Name: Remodelación de la Plaza Publica Juan Jimenez Mesa	

Project Location: Proposed site & architectural improvements at 25 de Julio Street (State Road PR-332) corner of 65 Infanteria Street, Pueblo Ward Municipality of Guanica, Puerto Rico	
Project Coordinates: 17.972382; -66.907862	
TPID (Número de Catastro)**:** 407-085-059-01	
Type of Undertaking: ☒ Substantial Repair/Improvements ☐ New Construction	
Construction Date (AH est.): 1920	**Property Size** (acres)**:..9412244 ac**

SOI-Qualified Architect/Architectural Historian: Eduardo A. Regis Martinez
Date Reviewed: December 21, 2022

Virginia Rivera Calderón

SOI-Qualified Archeologist: Virginia Rivera Calderon
Date Reviewed: June 13 ,2023

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. Activities related to this project will be done in a manner that does not meet Stipulations outlined in the Programmatic Agreement.

Project Description (Undertaking)

The following information is provided for Proposers to consider and estimate necessary resources and activities to develop the Project. Proposers shall consider that all activities shall be performed in compliance with the Community Development Block Grant for Disaster Recovery (**CDBG-DR**) Program policies set for the City Revitalization Program (**City Rev Program**) as approved by the U.S. Housing and Urban Development (**HUD**).

The Municipal Plaza (aka Plaza Publica & Plaza Juan Jimenez Mesa) is located at 25 de Julio Street (State Road PR-332) Municipality of Guanica, PR. Like most public squares, it is surrounded by mostly institutional buildings.

- To the East the New City Hall, built around 2006, faces plaza across 25 de Julio Street (heavily damaged during 2020 earthquake cluster event, to be demolished).

- To the South the Old City Hall building (built in 1921, currently used as museum) is on the corner of 25 de Julio & Del Rosario streets, while early 20th century concrete and wood private residences complete the block up to the corner of Dr. Veve street.

- To the West Colegio Beata Imelda catholic school (built in 1955) & Antonio Abad parish church (built in reinforced concrete in 1953, in same location of timber & mortar church was ca. 1910) completes the block along Dr. Veve street.

- At the northwestern corner of 65 de Infanteria & Dr. Veve streets the James Garfield Graded School (built in1903 with an addition in 1926) is located.

- To the North the Maria Luiss McDougall elementary school (built ca. 1925) & the Dr. Nestor Frontera Tacoronte building (an early 20th century masonry structure converted into medical offices) faces plaza along 65 de Infanteria Street.

The following information shall be considered to understand requirements and identify necessary studies and design of the Project:

a. The Municipality of Guánica wants to renovate the existing Municipal Plaza, a public facility located at the center of the Municipality's urban core.

b. The space is used so that the public can enjoy collective social, educational, and musical activities. Two existing kiosks offer food and refreshments.

c. The proposed plaza remodeling will include removal & replacement of existing urban surfaces & features as well as new construction & the installation of new amenities.

The undertaking aims to provide an articulated urban space for gatherings, ceremonies & festivals. The remodeled plaza will offer new family-oriented urban amenities that will assist in reactivating the town center while creating an attraction for moving into the urban area.

The square was rebuilt practically in its entirety by 2004 and then in 2016, any vestige of its original environment, dating from around 1920, is lost. The property is demarcated within the confines of a Public Facility (DT-P) as established in the Land Classification Map for the Municipality of Guánica, sheet 38 effective June 2, 2010. The property retains its original use, size & configuration as a plaza. All new, proposed amenities are akin to those uses.

The Municipality of Guanica is interested in the remodeling of the Plaza Juan Jimenez Mesa to update its urban infrastructure program to modern operational standards. All such improvements and repairs must comply with state and federal design parameters for public spaces and that they do not negatively impact the historical/urban environment before the ICP and the State Office of Historic Preservation.

To this end, it is reported that the undertaking proposes:

a. Demolition of concrete bandshell & central fountain basins, to improve space flexibility & pedestrian flow.

b. Reconfiguring of planting areas for landscaping improvements and reforestation. Trees & shrubs define zones within the space of the square; therefore, the landscape treatment must retain height & leafiness of the trees in close proportion between the surrounding buildings and their height at which it will not be greater than a four-story building. They will be oriented in such a way that a cone of shade is obtained that protects the rest areas.

c. Removal of existing sidewalks, ramps & walkways for new pavements to better interact with amenities & facilities of a new urban infrastructure.

d. Addition & relocation of new urban features (street furniture such as lampposts, trash bins, benches, etc.) to offer more recreational areas in shaded areas. (Playground equipment will be installed at new planting areas.)

e. The new plaza furniture is proposed in line with the programming of uses and atmosphere proposed. benches are made of durable material, located within the covered or partially covered area. Highlighting the remodeling is the installation of a walkthrough fountain system. Square illumination will be improved with contemporary, more efficient technology.

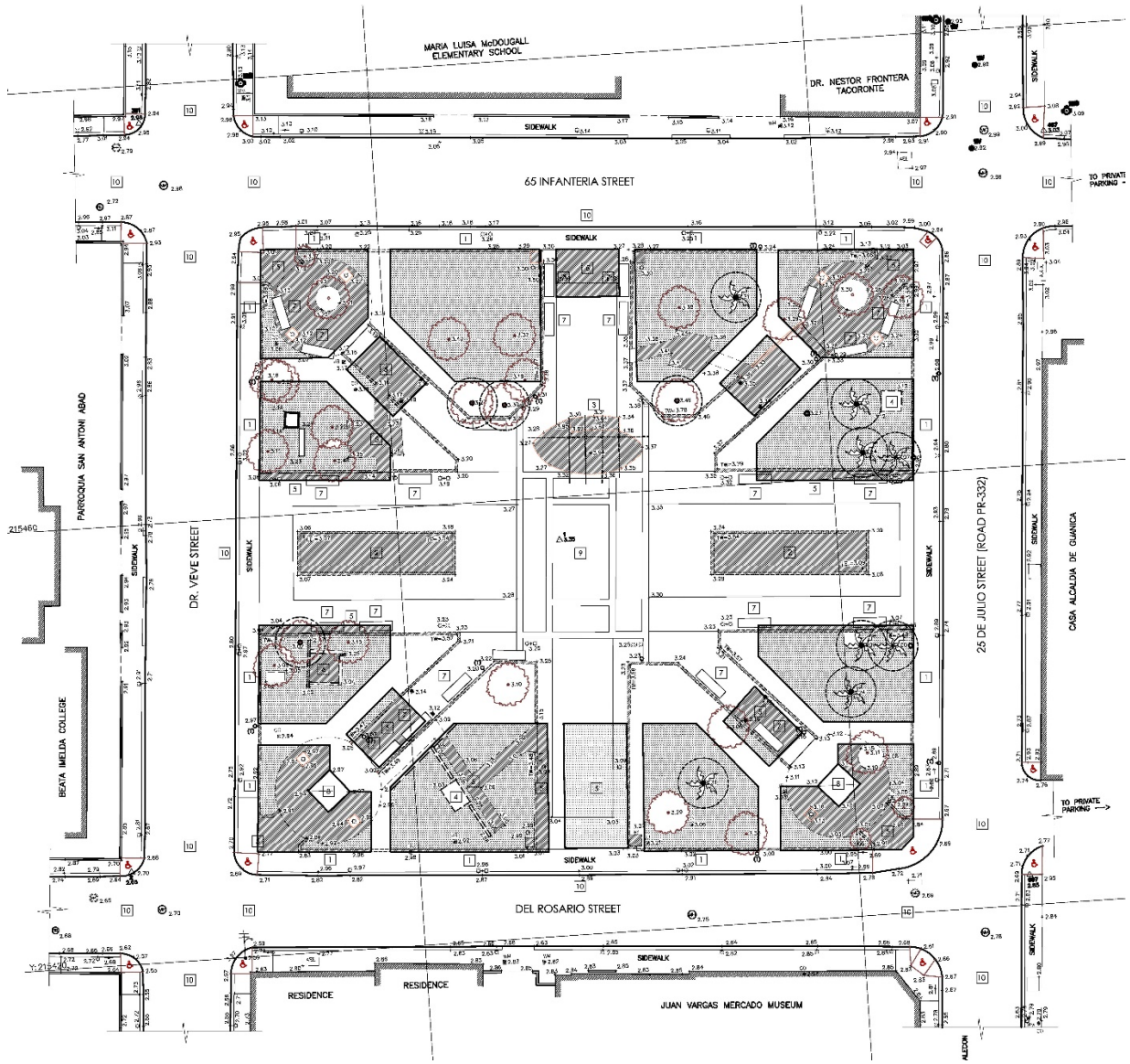
f. Different pavements will be used to demarcate areas with defined uses and aesthetic results of great value, in complement to the urban furniture to be proposed. Ramps and crosswalks are improved in compliance with ADA standards. The original, orthogonal shape of the square is respected.

g. Existing kiosks to remain. Cleaning & relocating contemporary commemorative sculptures to be relocated within the square to improve space flow & use flexibility. Concrete flooring, erected in 2016, to be removed. No acoustic shells, platforms or stands are proposed.

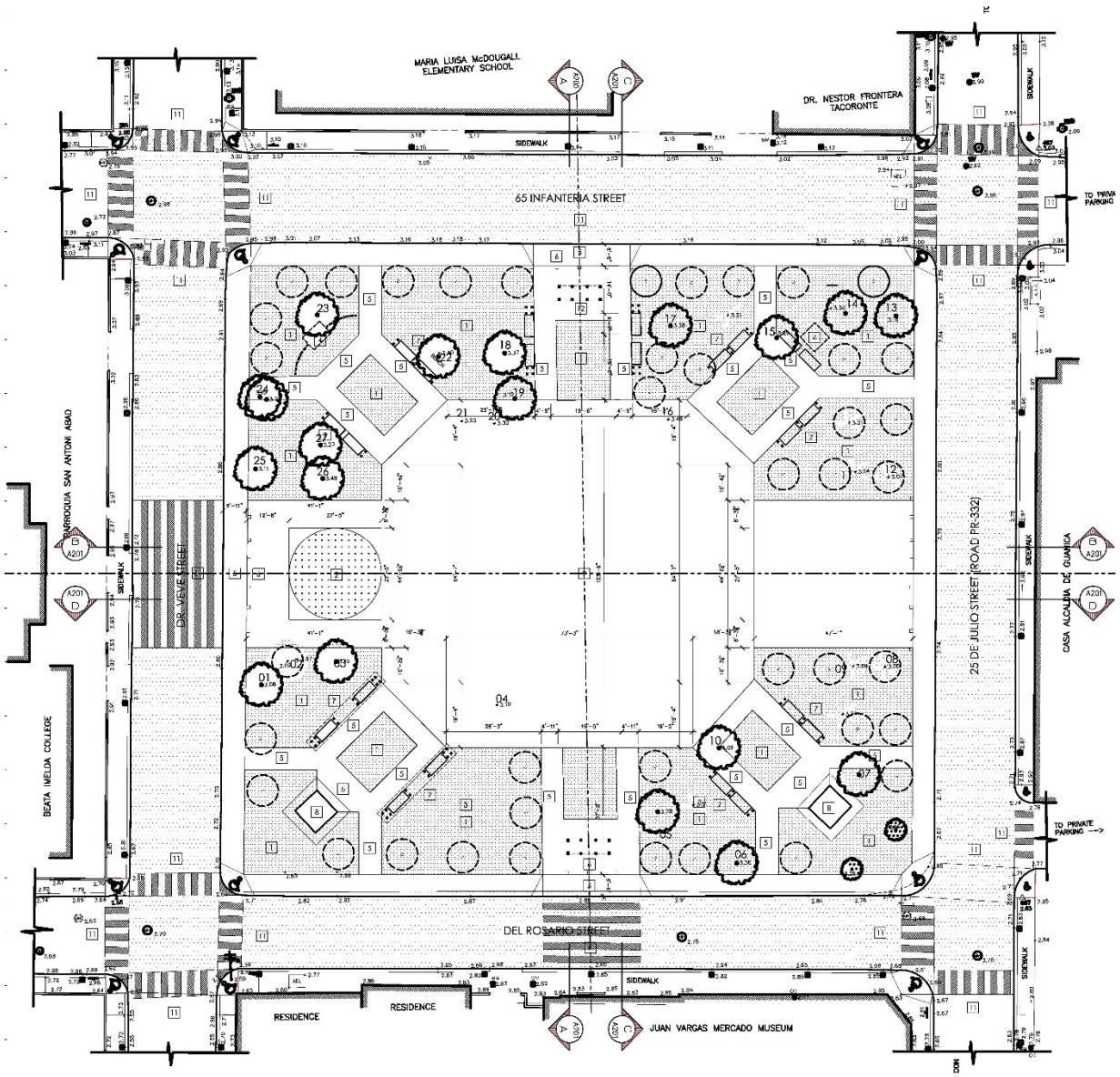
Refer to Undertaking Exhibits 1 to 6.



Figure -1-Aerial shot of the Plaza de Guánica.
(Framed in hidden black line. Google Earth 2016)



Undertaking Exhibit # 01	**Description:** Existing condition/demolition layout. (Image provided by Applicant)



Undertaking Exhibit #: 02	**Description:** Proposed improvements layout (Image provided by Applicant)



Undertaking Exhibit #: 03	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 04	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 05	**Description:** CGI renderings (Image provided by Applicant)



Undertaking Exhibit #: 06	**Description:** CGI renderings (Image provided by Applicant)

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 as on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is 41,235 square feet and the visual APE is the viewshed of the proposed project, which is defined by the surrounding streets and buildings for a total of 6,008 square meters." ***(Refer to enclosed* Project SOW Area Demarcation - Aerial Map 2022)**

This type of project could impact the area during its progress, through possible sedimentation of existing rainwater systems, emission of fugitive dust, temporary interruptions of both vehicular and pedestrian traffic, as well as temporary inaccessibility to parking areas along the right-of-way. To this end, coordination will be carried out with the Municipality of Guánica, its municipal police force, and other government agencies with jurisdiction over the project to establish a mitigation plan for controlling fugitive dust and sedimentation to the existing rainwater system, as well as a temporary coordination plan for vehicular and pedestrian traffic.

Undertaking (plaza) is a rectangular-shaped space demarcated by North 65 de Infanteria Street to the north, 25 de Julio (PR332) Street to the east, Del Rosario Street to the south, and Dr. Veve Street to the west. The Lambert coordinates in the NAD83 system of the property are X=149737.0523, Y=215455.1267 (LAT 17.97238227 LON -66.90786221).

Direct APE is 210'-0" (64 meters) on east-west direction by 195-0" (59.5 meters) on north-south direction with an approximate surface area of 40,990 square feet (3,809 square meters), while indirect APE is 275'-0" (83.8 meters) on east-west direction by 256-0" (78 meters) on north-south direction with an approximate surface area of 75,570 square feet (7,023 square meters)

Undertaking is located within the traditional urban center of Guanica as demarcated by PRDOH. Scope of work will not have an adverse effect upon direct/indirect APE nor viewshed, proposed improvements keep size, configuration, use & viewshed of existing urban center. (Original plaza improvements were extensively impacted thru diverse alterations to space)

Cultural Setting

The territory of the municipality of Guánica has an extension of 37.1 square miles, 96.2 square kilometers, and is located on the southwestern coast of the island. This municipality is divided into the following districts: Arena, Caño, Carenero, Ciénaga, Ensenada, Montalva, Pueblo, and Susúa Baja. It is mostly flat, with some small elevations. The tallest hill is Lajara, with a height of 178 meters; followed by Abra, Las Lomas de Seboruco, and El Peñón. Montalva Hill, Las Pardas Mountains, and Brea Mountains are all less than 100 meters high. Its coast has Punta Ballena, in front of which the cays of Caña Gorda, Punta Jacinto, Guánica Bay, Las Pardas Cove, Brea Points, Frontón de la Brea, Hunchback, and Bishop's Point are visible. The Terremoto and Don Luis cays are located between Hunchback and Bishop's Point. The Guánica Dry Forest is in the coastal zone and is unique in the world for its diversity of trees, which are about 700 species. Guánica Bay divides the forest into two segments, encompassing about 4,000 hectares. The mangroves add up to about 72 hectares of red mangrove. Its hydrography is highlighted by the Loco River, which originates in Yauco and enters Guánica from the northeast, emptying into Guánica Bay. The Guánica Lagoon is almost completely sedimented. These geographic characteristics allowed Guánica to become an area that was early populated. It has an interesting pre-colonial history and a rich colonial life both from the 19th century and the stage that began with the American intervention of 1898.

The municipality of Guánica has 4 Sites included in the National Register of Historic Places, which are: **Yauco Battlefield, Guánica Lighthouse, Santa Rita Hacienda, and James Garfield School**. These sites are intimately related to the municipality's foundation, the development of the 19th-century sugar industry, and the arrival of Americans in 1898.

The sites recognized through the reviewed studies were 25, of which prehistoric or historic resources were identified in 15 sites and 10 had exclusively historical resources or are historical structures with significant architectural value. Considering that Guánica is a coastal municipality with a rugged topography, it is not surprising that there is a significant number of sites inherited by the indigenous people where petroglyphs, lithics, ceramics, shells, and mollusks are identified. Additionally, the architectural richness of the late 19th and early 20th centuries can be seen in the buildings of Hacienda Santa Rita in the Susa Baja district and Hacienda Igualdad in the Caño district. Likewise, the Guánica Lighthouse and Caprón Fort, both in the Carenero district, recall the military and defensive importance of this beautiful point in the southwest area of Puerto Rico.

The pre-colonial memories are still intact on the rocks of the coasts of the Municipality of Guánica. While the interesting modern history places Guánica as a protagonist of two decisive moments for the development of Puerto Rico, the rise of the Sugar Industry and the arrival of the American army, it allows the identification of historical sites of indescribable importance.

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).

Next, three tables in which we present Table #1; historical properties documented in the SHPO and ICPR archives, Table #2 and #3, Archaeological Evaluations Reports located within a ¼ mile in respect to the Plaza Square.

Table -1- List of archaeological and historical sites in SHPO and ICP, in perimeter of 1/4 mile to the "Plaza de Guánica".

#	NAME ARCHAEOLOGICAL SITE	COORDINATE/ DISTANCE FROM "PLAZA DE GUANICA"	SHPO & ICP ID. NUMBERS	DESCRIPTION	RNLH
1	San Antonio Abad Church	18.205732, -66.38415 Distance: 0.008 miles west	#SHPO: GA0200008 #ICP: GA-23	Located on Dr. Veve Street opposite the Public Square. It was originally built in the late 19th century (1876). It was built as part of the demands of the Guaniqueno people on their separation from the Municipality of Yauco. Several renovations have been carried out.	Pending
2	Museum of History and Art	X: 149760 Y: 2154115 Distance: 0.009 miles south	#SHPO: GA0200009 #ICP: GA-24	Located on the corner of 25 de Julio Street and Carlos A. del Rosario Street, the current Museum of Art and History was once the Guánica City Hall in previous decades, with a building that dates to 1921. After restoration, it opened its doors as a museum on March 12,	Pending

				2006. It also serves as the headquarters of the Office of Art, Culture, and Tourism.	
3	James Garfield School	18.212328, -66.3835244 Distance: 0.012 miles north	#SHPO: GA0200010 #ICP: GA-25	Built in 1903 and repaired between 1910 and 1926 where its structure was expanded. Consisting of one floor, seven classrooms, L-shaped, bricks, masonry and neoclassical concrete, flat metal construction with parapet. Oldest School in Guánica.	15000275



Figure-1- Section of the SHPO quadrangle locating cultural property in perimeter of 1/4 mile around the Plaza de Guánica.

Table-2-Archaeological studies in perimeter of 1/4 mile of Plaza de Guánica SHPO

#	SHPO ID # TITTLE	AUTHOR/YEAR	PHASE	COORDINATES/ DISTANCE WITH RELATION TO SITE PROJECT	RESULTS
1	02-28-88-02 Expansion & Improvement of Used Water Treatment Plant	Luis Antonio Curet/ 1988	Phase 1 A-1B	17.5803, -66.5438 Distance: 0.193 miles, west	Positive. Surface tracks and probing tests produced negative results except one. Test #6 resulted in 9 ceramic fragments and a shell. Tests around this showed that the finding is isolated. It is recommended endorsement of the project conditional on that if any archaeological resource is identified, it is reported to SHPO.
2	03-31-86-03 Indoor Court, Passive Park, and a Little League Park	Harry E. Aleman/ 1986	Phase 1 A-1B	17.5822, -66.5430 Distance: 0.171 miles, northwest, and northeast	Negative
3	02-02-90-14 Urban High School	Jesus S. Figueroa/ 1990	Phase 1 A-1B	17.5819, -66.5426 Distance: 0.155 miles east	Negative.



Figure -2- Segment of USGS Map of Guanica showing in a red circle the ¼ mile perimeter, in the center in green square the "Plaza de Guánica" and the evaluated areas.

Table-3-Archaeological studies in 1/4-mile perimeter of "Plaza de Guánica" – ICPR

#	#ID-ICPR TITTLE	AUTHOR/YEAR	PHASE	COORDINATES/ DISTANCE WITH RELATION TO SITE PROJECT	RESULTS
1	GN—90-01-06 Urban High School	Jesus S. Figueroa/ 1990	Phase 1 A-1B	17.5819, -66.5426 Distance: 0.155 miles east	Negative.
2	GN-04-05-03 Salinas-Providencia Sanitary Line	Jesus E. Vega/ 2004	Phase II	17.581634, -66.544349 Distance: 0.222 miles, southwest.	Positive. The archaeological materials that can be observed on the surface are redeposit, both by the transport of filling from the quarry north of PR-116 (where an archaeological site in the hills of Abra was impacted), and by the erosion of another archaeological site, immediately east of the Rio Loco and north of the PR-116 bridge. It is recommended not to perform archaeological mitigation, since the archaeological material is extremely limited, impacted and does not present an opportunity to reconstruct the cultural chronology of the site, or to answer questions that may contribute to the prehistory of the region.

3	GN-04-05-01 New Municipal Government Center	Adalberto Mauras Casillas/ 2004	Phase 1 A-1B	17.575627, -66.541216 Distance: 0.007 miles, east.	Negative.
4	GN- 03-04-06 Centro Comercial PR-333	Eduardo Questell Rodríguez/ 2003	Phase 1 A-1B	17.582574, -66.542357 Distance: 0.159 miles, east.	Negative.
5	GN-98-03-05 Fire House Station, PR-333	Antonio Daubón Vidal/ 1998	Phase 1 A-1B	17.582377, -66.541360 Distance: 0.223 miles, east.	Negative.



Figure -3- Segment of USGS Map of Guanica showing in a red circle the ¼ mile perimeter, in the center in green square the "Plaza de Guánica" and the evaluated areas.

Summary of the tables:

During our consultation at the **SHPO** Office we were able to identify three archaeological evaluation reports within the quarter mile of the proposed project, these were located as follows.

0 study between 0 - 0.100 miles
3 studies between 0.100 – 0.200 miles
0 study between 0.200 – 0.300 miles
0 studies between 0.300 – 0.400 miles

The results were negative to two of them and positive to one. The positive turned out to be SHPO-02-28-88-02. The final investigation of this evaluation concluded that; Surface tracks and shovel tests resulted negative, except one. Shovel Test #6 resulted in 9 ceramic fragments and a shell. Tests around this showed that the finding is isolated.

During our consultation at the **ICPR** Office we were able to identify five archaeological evaluation reports within the quarter mile of the proposed project; these were located as follows;

1 Study between 0 – 0.100 miles
2 Studies between 0.100 – 0.200 miles
2 Study between 0.200 – 0.300 miles
0 Study between 0.300 – 0.400 miles

The results were negative in four of the studies and positive in one. The positive study is GN-04-05-03. This study is in the same area, but at a different phase at SHPO. The archaeological materials that can be observed on the surface are redeposit, both by the transport of filling from the quarry north of PR-116 (where an archaeological site in the hills of Abra was impacted), and by the erosion of another archaeological site, immediately east of the Rio Loco and north of the PR-116 bridge

Statement of Determination - Archaeology

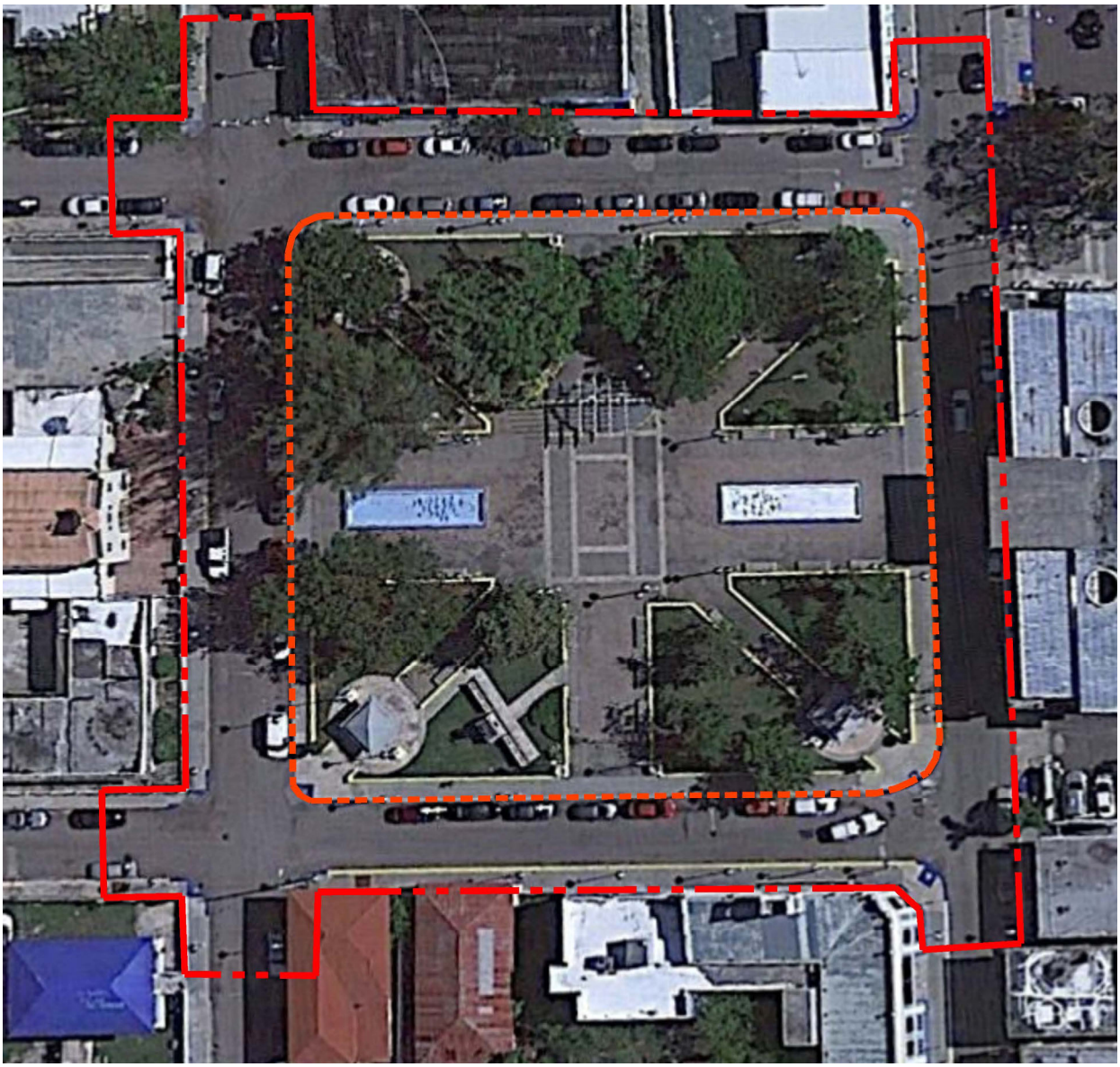
As result of our consultation, it is possible to establish that there are no known archaeological sites within the APE of The Plaza Publica Juan Jimenez.

Undertaking actions will have no adverse effect upon any identified archaeological site nor that compose the Area of Potential Effect.

Therefore, Undertaking will result in No Adverse Effect to Historic Properties.

Figure-4-Location-Area of Potential Effect Map/APE (Aerial)

Source Google Earth 2022



Identification of Historic Properties-Architecture

Based on the results of historic property identification research efforts, including consulting 1930, 1950 & 1993 & 2016 aerial photos, NRHP listings at the Puerto Rico State Historic Preservation Office (PRSHPO/OECH) website and zoning maps from the Puerto Rico Planning Board (PRPB), some listed, or historically designated property are present within the direct and indirect APE. 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 located within the PRDOH/SHPO demarcated Traditional Urban Center of Guanica, and are over 45 years old.

The Plaza Publica Juan Jimenez Mesa is eligible as Guanica historic urban center and is, although architecturally altered, eligible for NERHP Category **A** because it has been associated with events that have made a significant contribution to the broad patterns of our history.

The following buildings surrounds the square:

1. Reinforced concrete two-level old Guanica City Hall building (Antigua Alcaldia de Guanica) was built in 1921, its design attributed to architect Tomas Olivari Santoni. Mannerist revival style. After relocating municipal offices to the new city hall, it is currently used as the Pedro Juan Vargas Mercado Art & History Museum. Property eligible/contributing under NHPA Category **A** because it has been associated with events that have made a significant contribution to the broad patterns of our history; Category **B** because it has been associated with the lives of significant persons in the past; & The building is eligible for NERHP Category **C** because it embodies any distinctive characteristics of a type, period, or particular method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

2. Reinforced concrete, wood & metal one-level private residential structure built in creole (criollo) style adjoining Old City Hall Annex, built ca. 1940. (Mostly in original condition. Property eligible/contributing under NHPA Category **C** because it embodies any distinctive characteristics of a type, period, or method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

3. Reinforced concrete, wood & metal one-level private residential structure built in creole (criollo) style, located in the southeastern corner of Dr. Veve & Del Rosario Street, built ca. 1940. (Mostly in original condition. Property eligible/contributing under NHPA Category **C** because it embodies any distinctive characteristics of a type, period, or method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

4. Reinforced concrete, wood & metal one-level private residential structure built in creole (criollo) style, located at the southwestern corner of Dr. Veve & Del Rosario Street, built ca. 1940. (Exterior altered. not able to inspect interior) Property eligible, non-contributing.

5. Reinforced concrete one-level Colegio Beata Imelda catholic school built in 1955 in Art Deco style, designer unknown. Property eligible/contributing under NHPA Category **C** because it embodies any distinctive characteristics of a type, period, or method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

6. San Antonio Abad catholic parish church, built in reinforced concrete ca. 1930, in same location of previous wood & mortar church-built ca. 1910 in Spanish colonial style. Designer Francisco Porrata Doria Architect. (Although the parish indicated its founding as in 1888, there is some belief it was initially founded outside of the current town core.) Property eligible/contributing under NHPA Category **A** because it has been associated with events that have made a significant contribution to the broad patterns of our history; & The building is eligible for NERHP Category **C** because it embodies any distinctive characteristics of a type, period, or particular method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

7. Brick, masonry & concrete one-level James Garfield Graded School, built in1903 with an addition in 1926 in Neoclassical Revival Style. Charles G Post, Architect/Builder. The oldest school in Guanica & first schoolhouse in the island under US authority. Listed in the NRHP. (15000275)

8. Brick, masonry & concrete one-level Maria Luiss McDougall elementary school (built ca. 1925), built ca. 1930 in Spanish Revival Style. Designer unknown. Altered, integrity remains. Property eligible/contributing under NHPA Category **A** because it has been associated with events that have made a significant contribution to the broad patterns of our history; & The building is eligible for NERHP Category **C** because it embodies any distinctive characteristics of a type, period, or particular method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

9. Masonry & concrete early 2-th century one-level commercial structure in Spanish Colonial style, converted into medical offices. Known as the Dr. Nestor Frontera Tacoronte building, property eligible/contributing under NHPA Category **C** because it embodies any distinctive characteristics of a type, period, or method of construction, or that may represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

(Refer to Viewshed Images, Photo Survey #19-#38)

The Plaza Publica Juan Jimenez Mesa (aka Manuel Jimenez Mesa or Plaza Publica) is located between 25 de Julio Street to the east, 65 Infanteria Street to the north, Dr. Veve Street to the west and Rosario Street to the south. The square was originally an unpaved open square during the 1900's. Originally known as Quinones square its name changed in 1915 to Plaza de la Independencia (Independence Square) after Guanica is recognized as a separate municipality on March 13, 2014. The 1920 design is attributed to architect Tomas Olivari Santoni. (Same architect of Guanica Old City Hall in 1921)

By 1921 the square was already known as Plaza Manuel Jiménez Mesa, perhaps for his financing of its carbide lighting system. (Source *Plaza Manuel Jiménez Mesa* - Wilbert Pagán, 2014) By 1936 an ornate bandstand was built. (demolished in 1984 during works for remodeling) It is again remodeled in 1994 & later in 2013 that affected the integrity of the square original layout.

(Refer to enclosed Historic Context Exhibit #1-#8)

The Plaza Publica Juan Jimenez Mesa is a fundamental part of Guanica urban center. The space conserves its size, configuration and is used as a gathering space for the community.

Other eligible properties within a ¼ mile radius, not in Visual APE:

- Reinforced concrete Guanica Fire Station
  (Loc. 17.972623930588437, -66.9087007430897) built ca. 1940 in Modernist style, currently used as municipal police station. Original sign in place, plaque reading, "En memoria de Don Arturo Chacón Cortés 1881-1951 Servicio de Bomberos de Puerto Rico".

- Wood & concrete one-level, open bay Adventist church
  (Loc. 17.97433999095974, -66.9086134473937) built ca. 1935 in Neogothic style. Designer unknown.

- Reinforced concrete 20 three-level building Luis Muñoz Rivera public housing complex (Loc. 17.97392269593276, -66.9065353440073) Built ca. 1960 in Modernist style, designer unknown.

- Reinforced concrete two-level Franklin Delano Roosevelt School
  (Loc. 17.971190697348213, -66.9068549385354) Built ca. 1940 with interventions until 1956, in a Spanish Revival style. Designer unknown.

- Reinforced concrete one-level Guanica Municipal Hospital
  (Loc. 17.97049053897231, -66.90782193233403) currently used as home for the elderly. Built ca. 1940, in a Spanish Revival style. Designer Rafael Carmoega Architect.

- Reinforced concrete two-level former Guanica civil defense building,
  Loc. (Loc. 17.972623930588437, -66.9087007430897) currently used as Guanica Municipal Management Office (OMME) Built ca. 1920, in a Spanish Revival style. Designer unknown.

Statement of Determination

The Plaza Publica Juan Jimenez Mesa does meet criteria to be eligible to the National Register of Historic Places under Criterion A (history). The town plaza is associated with the development of the town and events that have made a significant contribution to the broad pattern of history. The town plaza is a contributing urban space in the eligible historic Guanica urban district. The town square retains the scale, ambiance and street relation that reflects the tradition of the life of the Guanica town. However, due to the additions and alterations through the years, the Plaza Publica Juan Jimenez Mesa lacks the integrity that had in the past and is not eligible under Criterion C.

After further research, historic properties as defined in 36 CFR800.16(1) are found within the APE. Undertaking actions will have no adverse effect upon any identified historic property nor viewshed that compose the Area of Potential Effect.

Therefore, Undertaking will result in No Adverse Effect to Historic Properties.

)

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

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

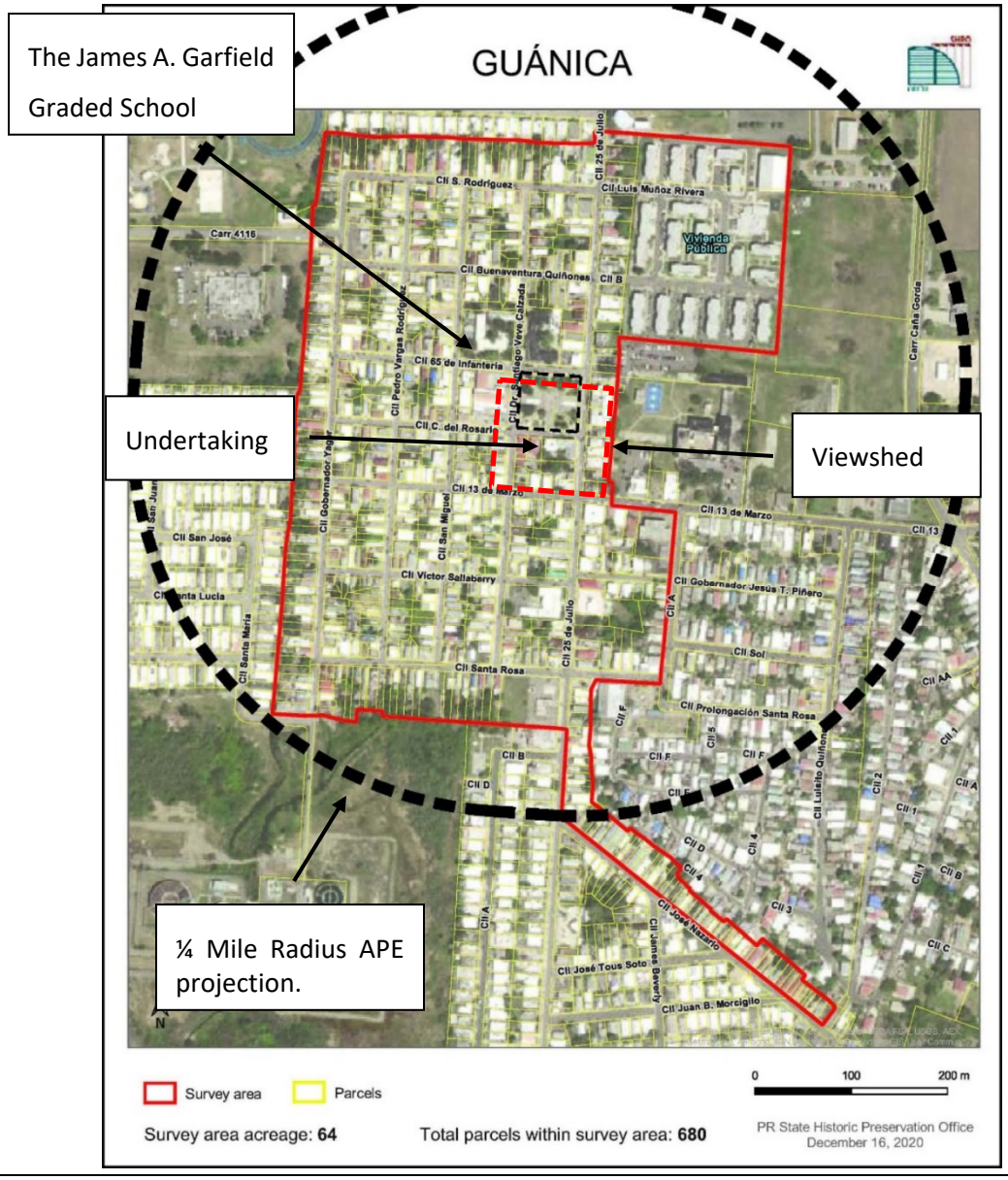
☐ No Historic Properties Affected
☒ No Adverse Effect
Condition (if applicable):
☐ Adverse Effect
Proposed Resolution (if appliable)

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 Location with Recorded Historic Properties – PRSHPO Urban Center Map

Figure -8- There is one listed NRHP property within APE demarcation as per current PR SHPO listings in their site www.oech.pr.gov. The James A. Garfield graded school, at the corner of 54 Infanteria and Dr. Santiago Veve streets.



Project Location – APE (Historic Context 01) (Google Earth 2016)



Figure -9- Project Location - APE (Historic Context 02) (Google Earth 2004)



Figure -10- Project Location – APE (Historic Context 03) (Google Earth 1993)



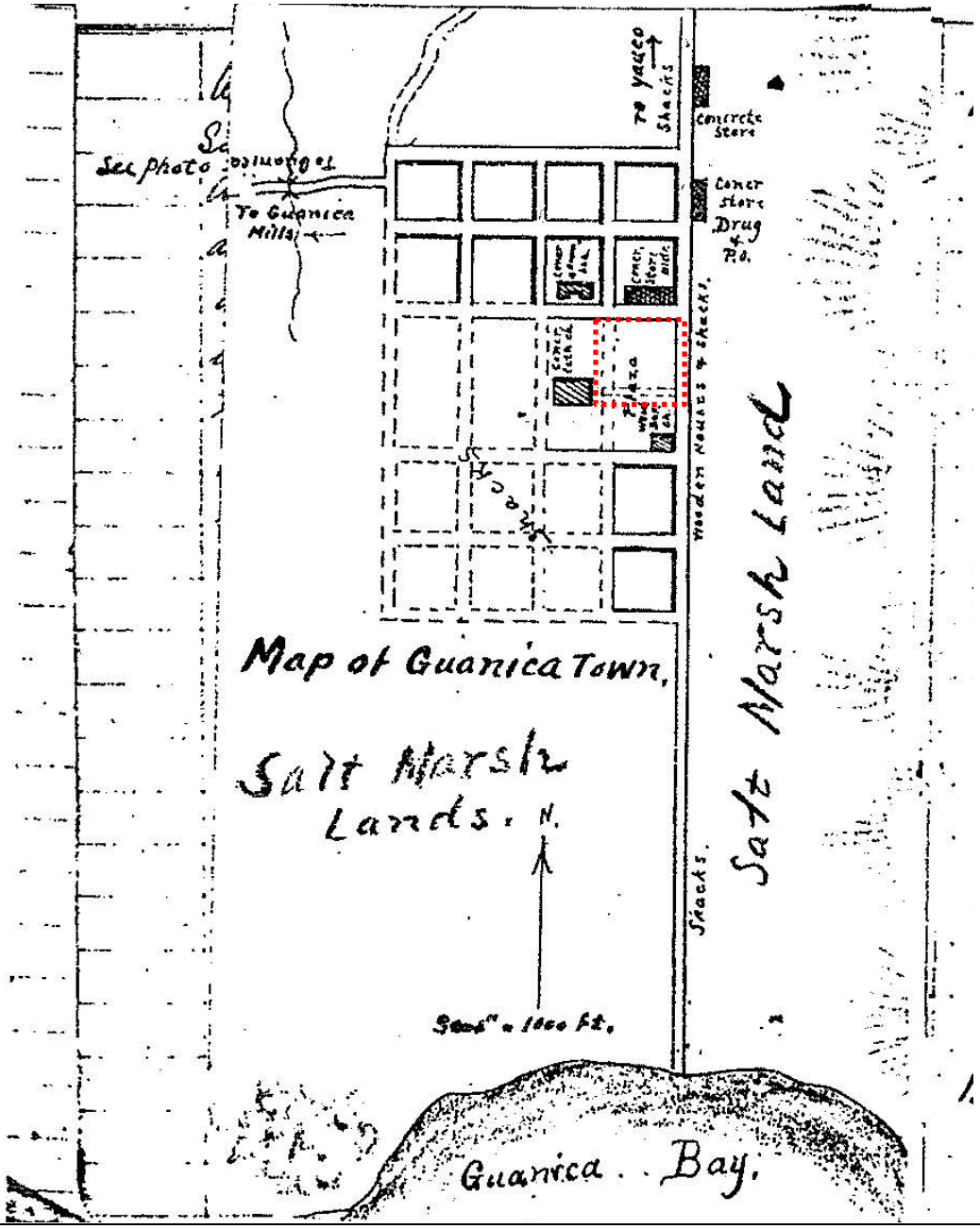
Figure -11- Project Location (Historic Context 04) -

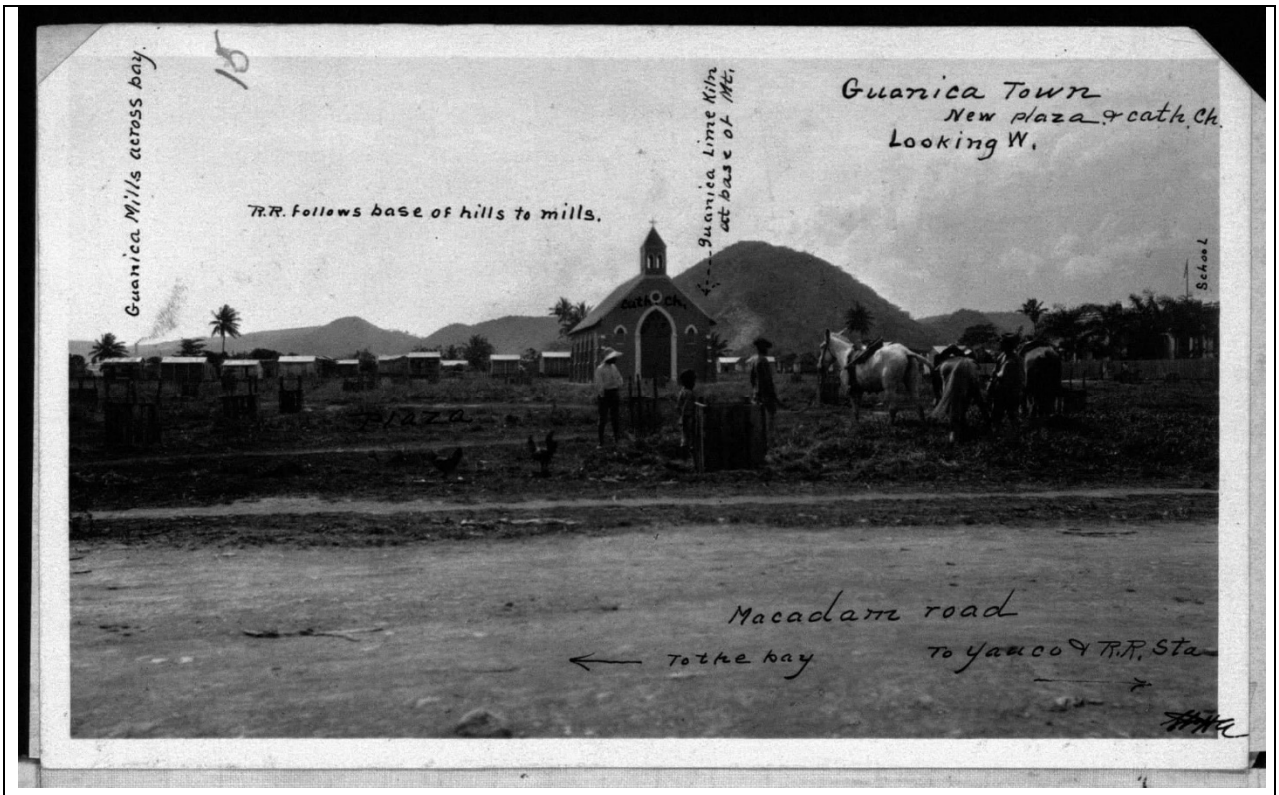
Aerial photo 1930 photogrametric survey



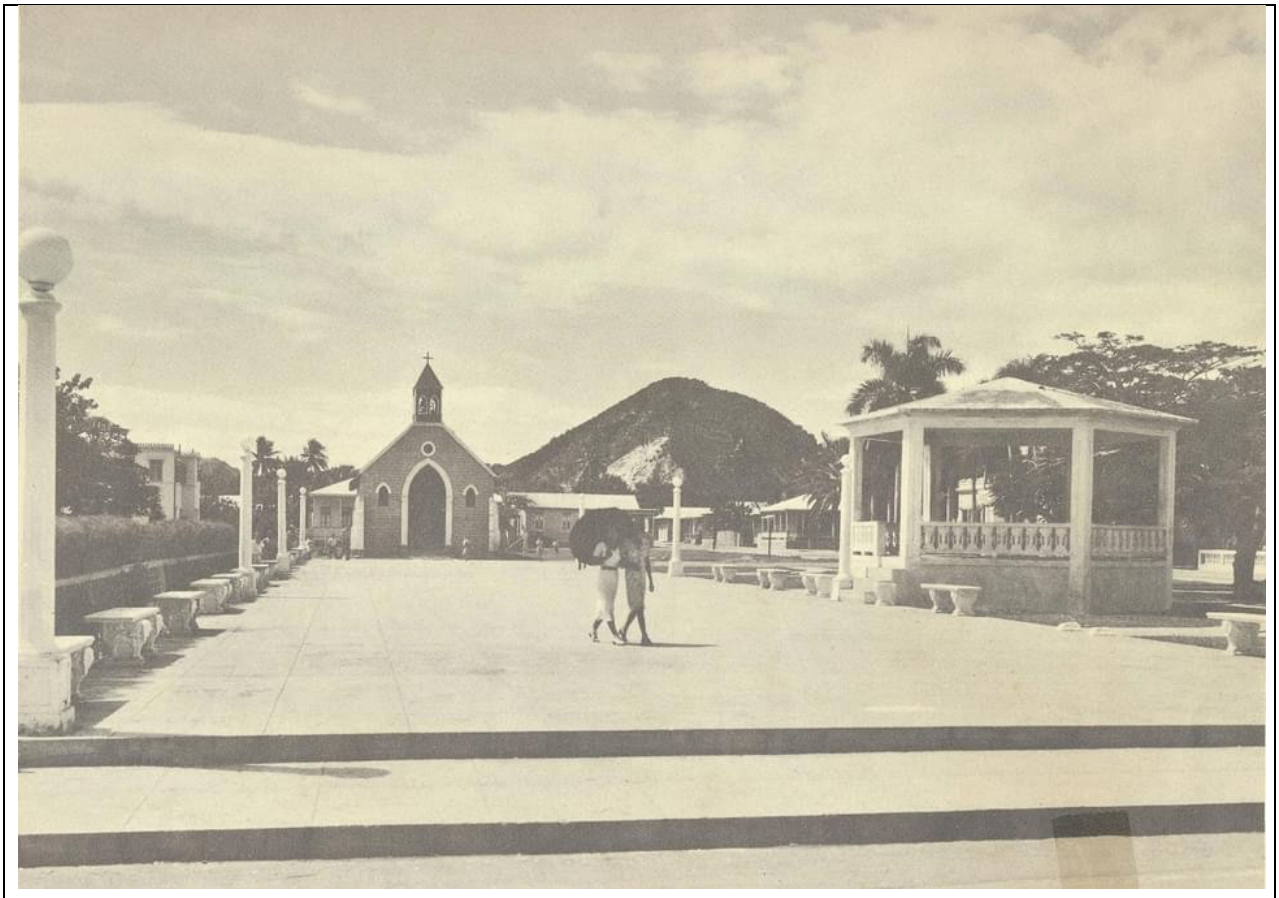
Project Location (Historic Context 05) - Guanica, PR

Existing condition sketch by John Armstrong (ca 1910)





Historic Context Image #06	**Description:** Black & white photo depicting Guanica town square, looking from main road (25 de Julio Street) toward west from the Diary of John Armstrong ca. 1910

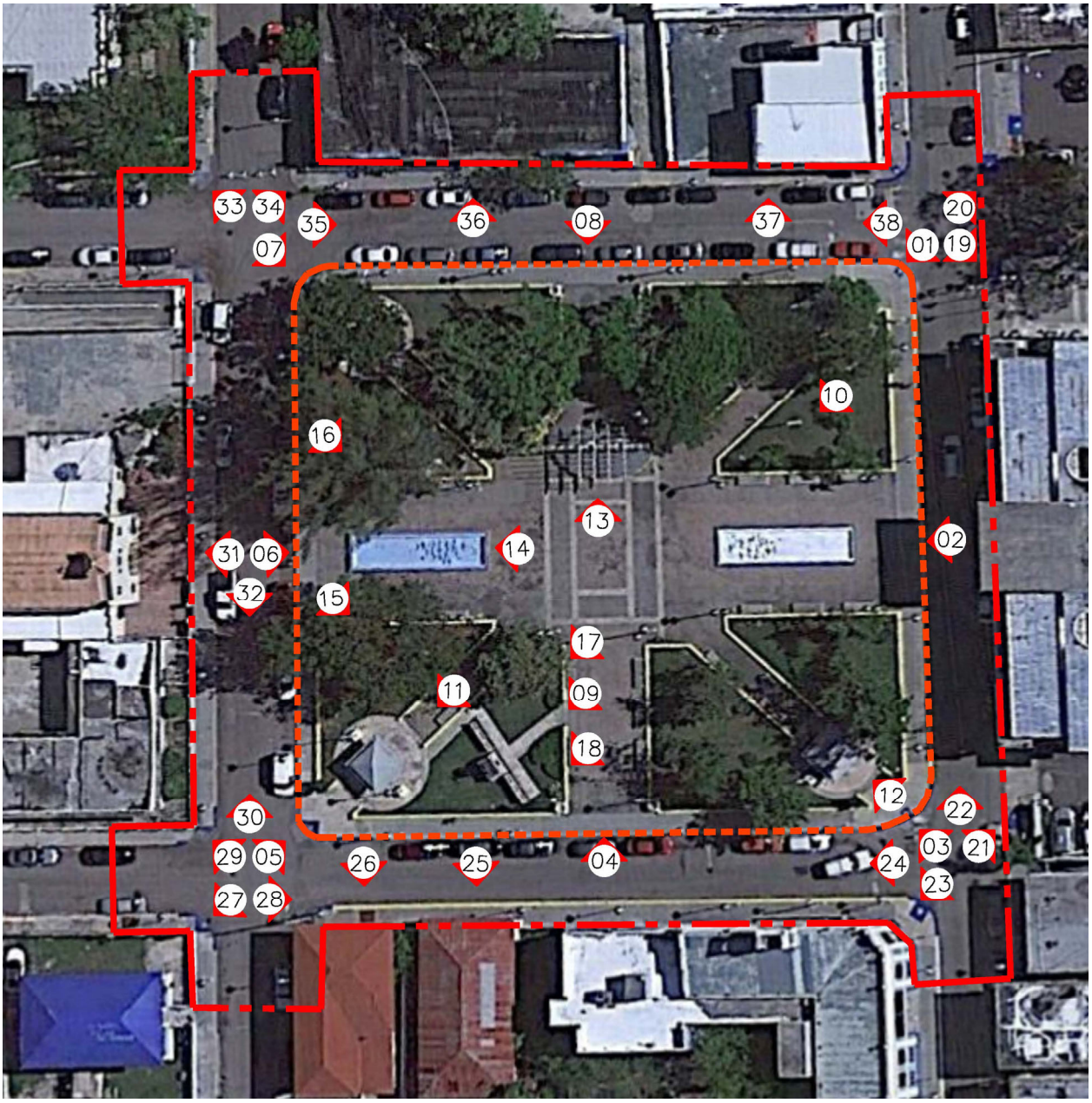


Historic Context Image#07	**Description:** Black & #hite photo of Guanica Town Square from 25 de Julio Street looking West, ca. 1940.



Historic Context Image# 08	**Description:** Black & #hite photo of Guanica Town Square from 25 de Julio street looking West, ca. 1960. (Rebuilt San Antonio Abad church in background.)

Architectural Photo Survey Key Plan (Google Earth 2022)





Project Location **Photo #01**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northeast corner of 25 de Julio and Del Rosario streets, looking northwest. (Low walls to be removed for new landscaping.)



Project Location **Photo #02**	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 25 de Julio Street, looking west. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping.)



Project Location Photo #03	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southeast corner of 25 de Julio and 65 de Infanteria streets, looking southwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #04	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Del Rosario Street, looking north. (Low walls & bandshell to be removed for new pavements & landscaping.)



Project Location Photo #05	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from southwest corner of Del Rosario and Dr Santiago Veve streets, looking northwest. (Low walls to be removed for new landscaping, kiosk to remain.)



Project Location Photo #06	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from Dr Santiago Veve street, looking east. (Low walls, concrete bandshell & fountains to be removed for new pavements, landscaping. Modern city hall at background to be demolished after 2020 earthquake, not included in this undertaking.)



Project Location Photo #07	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from northwest corner of Dr Santiago Veve and 54 Infanteria streets, looking southeast. (Low walls to be removed for new landscaping.)



Project Location Photo #08	**Description:** General view of Juan Jimenez Mesa square in Guanica, PR, from 65 Infanteria street, looking south. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #09	**Description:** Modern Veterans monument located at southwest sector of square, to be relocated, reincorporated into undertaking. (Low walls to be removed for new landscaping.)



Existing Project Features Photo #10	**Description:** Contemporary Altrusa monument located at northeast planting area to be relocated, reincorporated into undertaking. (Low walls to be removed for new landscaping.)



Existing project Features Photo #11	**Description:** Existing southwest kiosk, Juan Jimenez Mesa square Guanica, PR. (To remain)



Existing project Features Photo #12	**Description:** Existing southeast kiosk, Juan Jimenez Mesa square Guanica, PR. (To remain)



Existing project Features Photo #13	**Description:** Existing concrete bandshell, Juan Jimenez Mesa square Guanica, PR. (To be demolished)



Existing project Features Photo #14	**Description:** Existing concrete water fountains to be demolished to be demolished for new pavements and landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #15	**Description:** Existing concrete water fountain pump shed to be demolished, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #16	**Description:** Existing electrical substation & mater bank to remain, to be concealed into new landscaping, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #17	**Description:** Existing precast concrete benches to be removed, stored, and relocated during undertaking, Juan Jimenez Mesa square Guanica, PR.



Existing project Features Photo #18	**Description:** Existing metal lampposts to be removed and provided to Owner for future retrofit, reuse. Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #19	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking south along 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #20	**Description:** Corner of 65 Infanteria and 25 de Julio Streets, looking from northeast corner of Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #21	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking northeast toward modern City Hall. Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #22	**Description:** 25 de Julio Street, facing north. Modern city hall at right, facing west toward Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #23	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking southwest toward old City Hal. Juan Jimenez Mesa square at right (not shown) Guanica, PR.



Viewshed Photo #24	**Description:** Corner of Del Rosario and 25 de Julio Streets, looking west. Old City Hall facing north toward Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #25	**Description:** Del Rosario Street residential structure facing North Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #26	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing north toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #27	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets residential structure facing northeast toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #28	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing east. Juan Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #29	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets institutional structure facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #30	**Description:** Corner of Del Rosario & Dr. Santiago Veve streets facing north, Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #31	**Description:** San Antonio de Padua catholic parish church at Dr. Santiago Veve Street facing east toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #32	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets facing south, Jimenez Mesa square at left Guanica, PR.



Viewshed Photo #33	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The James A Garfield Graded School facing southwest, toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #34	**Description:** Corner of 65 de Infanteria & Dr. Santiago Veve streets, The Maria Luisa McDougal School facing south, toward Juan Jimenez Mesa square (not shown) Guanica, PR.



Viewshed Photo #35	**Description:** 65 Infanteria Street facing east toward 25 de Julio Street. Juan Jimenez Mesa square at right Guanica, PR.



Viewshed Photo #36	**Description:** The Maria Luisa McDougal School at 65 Infanteria street facing south, toward Juan Jimenez Mesa square Guanica, PR.



Viewshed Photo #37	**Description:** Corner of 65 Infanteria and 25 de Julio streets, medical office building at facing south toward Juan Jimenez Mesa square Guanica, PR.



Photo #38	**Description:** Corner of 65 Infanteria and 25 de Julio streets, facing west. Juan Jimenez Mesa square at left Guanica, PR.