



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

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

## **Project Information**

**Project Name:** Mejoras Plaza Pública José Ramón Figueroa Rivera (PR-CRP-000127)

**Responsible Entity:** Puerto Rico Department of Housing (PRDOH)

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

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

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

### **Certifying Officer Name and Title:**

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**Consultant** (if applicable):

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

### **Project Location:**

Plaza Pública José Ramón Figueroa Rivera is located at Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766. Coordinates: 18.128443, -66.492629. TPID (Número de Catastro): West Section

(#294-082-011-04), Upper East Section (#294-082-011-02), Center-East Section (#294-082-011-03), and South Section (#294-082-012-01). The project site is surrounded by the Figueroa Street and Parroquia Nuestra Señora del Carmen (North), Antolín Castillo Street (South), State Road PR-149R (East) and Barceló Street (West), Villalba, Puerto Rico. See Figure 1 Project Site.

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

The Municipality of Villalba proposes the rehabilitation of the Plaza Pública José Ramón Figueroa Rivera, a historic town square with an approximate area of 30,035 square feet, and its surrounding areas. The proposed project intends to improve accessways and sidewalks by removing accessibility barriers and maximizing the possibilities of uses for the site. It will also replace the town square's current flooring and planter positions to gain uniformity in the whole esplanade, and the 1980's octagonal kiosk on the upper level and other obstacles will be removed to reorient the plaza's organizational axis towards the lateral entrances of the catholic church. In a more detail, the renovation will include:

- Development of a 250 square feet concrete kiosk for a coffee shop with a bathroom, kitchen and storage on the northwest corner of the Plaza.
- The installation of a total of 3 free-standing trellises (metal pérgolas), each one on the different plaza levels (two in the south opposite corners of the plaza and one in at the south side of the new kiosk in the upper segment of the plaza), and 80 square feet each. An additional metal trellis would be integrated into the kiosk and bathroom.
- Demolition of the existent fountains and construction of a smaller new one on the west side of the plaza, 28' x 8' feet.
- Reorganization of planters and creation of a smaller garden areas in the middle level. Existent trees will be preserved.
- Improvements to the stormwater drainage system.
- The installation of internet infrastructure to provide free public access.
- The development of recharge stations for portable equipment.
- Removal of old and installation of new concrete benches.
- Accessibility will be improved providing ramps and eliminating the separations between the plaza and the sidewalks that surrounds the space, all complying with ADA normative.

The present plaza is divided into three different levels separated by different pitched steps. The rehabilitation of the plaza will mitigate the sensation of that separation between them by consolidating the place as a single space, changing the existent concrete stairs and building new stairs lower pitched and with lesser steps. Because the existent and significant plaza levels different heights, the demolition plan and excavation for installing new pavement, planters, garden areas and 18 new lampposts will vary between six inches and 36 inches deep. For further details please refer to the Project site plans (Figure 2).

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

The damage caused by Hurricanes Irma and Maria to the floors, fallen trees, lighting and other elements affected and significantly reduced the use of the plaza. The proposed project is intended to restore and improve the Plaza so that it becomes a resilient environment adapted to the needs of the area. This will contribute to the revitalization of the city.

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

The project site has been damaged caused by Hurricanes Maria and Fiona, which has reduced its use and safety. The Plaza serves as a meeting and gathering point for the low- and moderate-income populations that live in the surrounding areas ("Vacas, Villalba Arriba, Villalba Abajo, Hato Puerco Arriba, Hato Puerco Abajo, Caonilla Arribas, Caonilla Abajo, among others), as well as a place for the Municipality to store supplies for public distribution in case of emergencies.

**Funding Information**

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

**Estimated Total HUD Funded Amount: \$3,587,045.16**

**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$3,653,331.40**

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

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

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>There are no civilian airports within 2,500 feet of the project site and no military airports within 15,000 feet of the project site. The distance between the project and the existing airports are as follows:</p> <p>Luis Muñoz Marín Airport (civilian) – 201,884.6 feet</p> <p>Muñiz Air National Guard (military) – 206,897 feet</p> <p>Mercedita International Airport (civilian) – 49,230.5feet</p> <p>Therefore, this topic is following HUD regulations.</p> <p>See Appendix A, Airport Hazards Worksheet, and Appendix B, Figure 3.</p>
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>A USFWS Coastal Barrier Resources System Mapper Documentation Map is included showing that the project site is not included in nor affected by Coastal Barrier Resources System (CBRS) boundaries. The distance the closest CBRS (PR-49P) is 73,392 feet. Therefore, this topic is in compliance with HUD regulations.</p> <p>See Appendix A, Coastal Barrier Resources Worksheet, and Appendix B, Figure 4.</p>

<p><b>Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project is not a habitable structure nor is its critical infrastructure. A FEMA Flood Insurance Rate Map (FIRM) shows that the project is not located in a special Flood Hazard Area. (Zone X, FIRM Panel 72000C1140J and effective date November 18, 2009).</p> <p>Therefore, Flood insurance would not be required. Therefore, this topic is in compliance with HUD regulations.</p> <p>See Appendix A, Flood Insurance Worksheet, and Appendix B, Figure 5.</p>
<p><b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</b></p>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project does not include conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units.</p> <p>The proposed project will not contribute to the emission of SO<sub>2</sub>. Sulfur dioxide is primarily derived from fossil fuel combustion at power plants and other industrial facilities, both which will not be part of the proposed improvements.</p> <p>The project area is not in a nonattainment designated area for NAAQS pollutants described in the Criteria Pollutant Nonattainment Summary Report Green Book US EPA (<a href="https://www3.epa.gov/airquality/greenbook/anayo_pr.html">https://www3.epa.gov/airquality/greenbook/anayo_pr.html</a>). Therefore, the project is in compliance with the Clean Air Act.</p> <p>See Appendix A, Air Quality Worksheet, and Appendix C, Clean Air.</p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project is not inside the Puerto Rico's coastal zone. According to the Federal Coastal Zone Management Program</p>

		<p>adopted in Puerto Rico in 1978, the Coastal Zone extends 1,000 linear meters inland. The distance to the closest Coastal Zone is 44,709 feet. A map depicting the relation of the project to the Coastal Zone limits is included (PR Coastal Management Zone Limits from <a href="https://gis.pr.gov/Pages/default.aspx">https://gis.pr.gov/Pages/default.aspx</a>). Therefore, this topic is in compliance with HUD regulations.</p> <p>See Appendix A, Coastal Zone Management Act Worksheet, and Appendix B, Figure 6.</p>
<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of occupants of the property or conflict with intended use of the property.</p> <p>The NEPAssist Tool (Accessed on December 15, 2022) does not identify the project site as a hazardous waste facility or a toxic release facility.</p> <p>No Superfund (NPL), or Superfund Enterprise Management System (SEMS) listings were within 3,000 feet of the project site. One Brownfields (ACRES) listing was within 3,000 feet of the project site. The project site is within 3,000 feet of six Resource Conservation and Recovery Act (RCRA) Hazardous Waste listings, one Toxics Release Inventory (TRI) listings, and no Toxic Substances Control Act (TSCA) listings.</p> <p>The Former Farmers Cooperative Can Plant at 17 Luchetti Street is the ACRES listing, approximately 928 feet northeast of the project site. A Phase I Site Assessment was performed for this facility in April 2011. The facility was identified as a former pea canning plant that is deteriorating internally, with the following on-site recognized environmental conditions (RECs) associated with historic structures that previously existed on the site: historic use and potential</p>

existence of the former onsite septic tank, potential use of hazardous materials including lead-based paints, asbestos containing materials, mercury and PCBs in building materials, and the structural integrity of the onsite structure. Leaking underground storage tanks from nearby properties and the use of pesticides and herbicides to manage the vegetation adjacent to the subject property were also listed as RECs for this facility. The slope from this facility it generally to the southeast and away from the project site. Based on distance and slope, this facility would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

The six RCRA sites are: Department of Education – Francisco Zayas Santana at PR-156 km 1, PR-150 km 0.1 Urb La Vega (649 feet southeast of the project site); Medtronic PR Inc. at PR-149 km 56.3 (1,150 feet west of the project site); Latas Libbys Inc. at PR-151 km 0.4 (1,809 feet east of the project site); Chevron Station at PR-151 km 0.5 (2,114 feet east of the project site); Texaco PR Inc. Villaba SS at PR-151 km 0.5 (2,114 feet east of the project site); and Super Ahorros #2343 at 7-B Calle Luis Munoz Rivera (288 feet north of the project site). These facilities were reported to have no RCRA violations over the last three years. Based on site status, these facilities would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

Medtronic PR Inc. also is the TRI listing within 3,000 feet of the project site. It is identified as an electromedical and electrotherapeutic apparatus manufacturing facility with reported air emissions of acetone, freon, and dichlorodifluoromethane. The facility is reported as having no Clean Air Act or RCRA violations in the last three

years. Based on site status, this facility would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

A site visit was performed by Vanessa Batista Santiago and Irma Pagan Villegas on October 13, 2023. The inspection identified no RECs associated with the project site.

The project will not involve residents of increase in occupancy of any structure. There would be no increase in risks associated with the proposed project.

A limited inspection for the presence of asbestos containing materials (ACM) and lead based paint (LBP) was carried out on December 16, 2022, by Enviroresources, Inc. Seven of the 40 areas tested for LBP were found to be above the regulatory limit. No suspected ACM were identified by the inspector, and no bulk samples were collected. The inspector certified that there is no presence of ACM in the components proposed for demolition. In its report Enviroresources, Inc., indicated the amount of LBP present was an estimate and the contractor performing the renovation would estimate the amount of material to be abated. According to PRDRNA lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified by the PRDRNA.

HUD issued Notice CPD-23-103 on January 11, 2024, regarding Departmental Policy for Addressing Radon in the Environmental Review Process. The Notice intends to clarify that radon must be considered in the Environmental Review analysis for all HUD funded projects. The recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the reasons listed within the

		<p>Radon Memorandum and associated agency correspondence found in Appendix D.</p> <p>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:</p> <ul style="list-style-type: none"> <li>•United States Geological Survey;</li> <li>•Centers for Disease Control and Prevention;</li> <li>•Puerto Rico Department of Health; and</li> <li>•United States Environmental Protection Agency.</li> </ul> <p>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.</p> <p>This topic is in compliance with HUD regulations.</p> <p>See Appendix A, Contamination and Toxic Substances Worksheet; Appendix B, Figure 7; and Appendix D.</p>
<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>According to the USFWS IpaC tool, the Puerto Rican Boa (<i>Chilabothrus inornatus</i>) could potentially be affected by activities at the project site. The proposed activities are covered by the USFWS Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development of January 14, 2013. The USFWS determined that projects in compliance with any of 11 listed criteria would be not likely to adversely affect federally listed species. A Self-Certification that certifies that the project is in compliance and not likely to adversely affect federally-listed species, based on criteria 2 (construction of gutters and sidewalks along existing roads) and 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</p>

		<p>beach) was signed on January 22, 2024. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, it was determined that there would be No Effect for any of the listed species.</p> <p>If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Puerto Rico Department of Natural and Environmental Resources shall be contacted and asked to relocate the Boa in accordance with the USFWS Puerto Rican Boa Conservation Measures Guidelines and the January 2024, Amended Programmatic Biological Opinion.</p> <p>Therefore, this topic is in compliance with HUD regulations.</p> <p>See Appendix A, Endangered Species Act Worksheet, and Appendix E, Endangered Species.</p>
<p><b>Explosive and Flammable Hazards</b></p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks.</p> <p>The scope of the proposed project does not include development, construction, conversion, or rehabilitation activities that would increase residential densities. The project would not introduce new housing. The increased use of the site could introduce sensitive public uses that could be exposed to explosive or flammable hazards.</p> <p>A site visit was performed by Vanessa Batista Santiago and Irma Pagan Villegas on October 13, 2023, which confirmed that no ASTs were present within 500 feet of the project site.</p> <p>This project complies with the Explosive and Flammable Hazards requirements.</p>

		See Appendix A, Explosive and Flammable Hazards Worksheet, and Appendix D.
<p><b>Farmlands Protection</b></p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project does not include any activities that could convert agricultural land to non-agricultural use.</p> <p>The proposed project is located on an already developed urban parcel. According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act. The project is on urban land.</p> <p>Therefore, this topic complies with the regulation.</p> <p>See Appendix A, Farmlands Protection Worksheet, and Appendix B, Figure 9.</p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain. The presence of the location in a FFRMS floodplain was assessed using the best available data and the FEMA-defined 0.2 Percent-Annual-Chance Floodplain Approach (0.2PFA). The project site is not within the 0.2 percent chance of flood, nor is there any hydrologic or hydraulic data to indicate the likelihood of flooding at the project site</p> <p>The Project site is not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the FEMA Recommended Base Flood Level Maps (Advisory Maps), Map from December 11, 2018. The project site is within the Zone X area of minimal flood hazard.</p> <p>The project is not considered a critical action under 24 CFR Part 55.</p> <p>The Project is in compliance with Executive Order 11988, particularly section 2(a); 24 CFR Part 55, as amended by Executive Order 13690.</p>

		See Appendix A, Floodplain Management Worksheet, and Appendix B, Figure 8, and Figure 5
<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the area of potential effect (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 project activities will not adversely affect the historic properties that compose the Area of Potential Effect (APE). However, because the renovation that the Plaza underwent in the 1990s required the demolition of the of buildings that could be from the late nineteenth or early twentieth century, it recommended carrying out archaeological monitoring during the excavation. These findings were submitted as part of the consultation package submitted to PRSHPO on March 28, 2024.</p> <p>In a letter dated April 19, 2024, PRSHPO concurred with the determination that the proposed project will have no adverse effect for this undertaking conditioned to archaeological monitoring during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. PRSHPO requested an archaeology work plan for review and concurrence.</p> <p>On June 27, 2024, the proposed Work Plan for an Archaeological Monitoring Inspection for the Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project was submitted to PRSHPO. In a letter dated July 11, 2024, PRSHPO acknowledged receipt of and accepted the archaeological monitoring work plan and concurred with its implementation. PRSHPO requested</p>

		<p>notification of the archaeological monitoring start date 48 hours prior to the initiation of work.</p> <p>On January 24, 2025, documentation for expansion of the scope of work of the project to include the installation of new 60 x 60 concrete pavers along the east side of the church to the north of the original project footprint. The letter requested concurrence with a determination that the proposed scope of work will not change the previous finding of no adverse effect, conditioned to the implementation of the Archaeological Monitoring Plan that was approved by SHPO in a letter dated July 11, 2024. On February 6, 2025, SHPO concurred with the determination that the updated scope of work will not change the previous finding of no adverse effect, conditioned to the implementation of the approved Archaeological Monitoring Plan.</p> <p>See Appendix A, Historic Preservation Worksheet and Appendix F.</p>
<p><b>Noise Abatement and Control</b></p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The noise that will be produced during the construction phase of the project will be generated by the construction equipment. The noise levels attributable to construction activities will be temporary in nature and it is expected it will not exceed 65 BA.</p> <p>The noise to be produced during the period of operation will be that normally produced by the operation of small commercial establishments in the area. No additional impact is expected.</p> <p>HUD's noise regulations protect residential properties from excessive noise exposure. HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential property.</p> <p>Therefore, the project complies with the regulation.</p> <p>See Appendix A, Noise Worksheet.</p>

<p><b>Sole Source Aquifers</b></p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>There are no EPA sole source aquifers in Puerto Rico. The nearest sole source aquifer to the project site is approximately 5,416,319.93 feet to the northwest. The project is in compliance with Sole Source Aquifer requirements.</p> <p>See Appendix A, Sole Source Aquifers Worksheet, and Appendix B, Figure 10.</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>According to National Wetlands Inventory (NWI) mapping, the nearest wetlands to project site are riverine wetlands approximately 248 feet to the east and 364 feet to the west of the southern end of the project site. The project is in compliance with Wetlands Protection requirements.</p> <p>See Appendix A, Wetlands Worksheet, and Appendix B, Figure 11.</p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>As per US Forest Service Geospatial Data Discovery (<a href="https://nps.maps.arcgis.com/apps/MapJournal/index.html?appid=ba6debd907c7431ea765071e9502d5ac#">https://nps.maps.arcgis.com/apps/MapJournal/index.html?appid=ba6debd907c7431ea765071e9502d5ac#</a>), no federally-designated Wild and Scenic Rivers are within or in the immediate vicinity of the project area. The nearest designated Wild and Scenic River is more than 40 miles northeast of the project site. The project is in compliance with Wild and Scenic Rivers requirements.</p> <p>See Appendix A, Wild and Scenic Rivers Worksheet, and Appendix B, Figure 12.</p>
<p><b>ENVIRONMENTAL JUSTICE</b></p>		
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>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.</p>

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

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	Because the Project-related activities would occur within existing municipal plaza and would involve activities to restore the property for public uses similar to its prior use, the project would be compatible with the scale and design of the area. The land use is consistent with the surrounding urban area. No changes in zoning, easements, or land use are anticipated. The project is within a municipality that has karst topography; however, the nearest mapped karst area is approximately 983 feet to the north of the project boundary. The project would, therefore, not affect this karst area. Due to the nature of the proposed activity, there will be no impact to the karst region. Therefore, no further consultation will be required to concerned regulatory agencies. The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing. See Appendix B, Figure 13.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The project area is developed, graded, and relatively flat. The project would involve ground disturbance to improve accessways and sidewalks, replace the town square’s current flooring, planters, and fountains, improve stormwater drainage, install 18 new lampposts, develop a kiosk, install trellises, demolish and replace the existing fountains with a smaller one, create addition small garden areas, improve stormwater drainage, and provide ramps and eliminate separations between the plaza and surrounding sidewalks. To avoid potential impacts to water bodies from sediment transport during construction, the contractor shall prepare and implement an Erosion and Sedimentation Control Plan (CES Plan) and a Stormwater Pollution Prevention Plan (SWPPP).

Hazards and Nuisances including Site Safety and Noise	2	<p>The project site is in an urbanized area. The project would involve demolition, excavation, site clearance and construction. Hazards and nuisances would be short-term and limited to the demolition and construction period. The hazards typically associated with construction activities would be present, temporary site safety issues and noise.</p> <p>Underground natural gas pipelines would be identified and marked. Any excavation near these pipelines would be conducted with appropriate BMPs. Excavation for the project is not expected to disturb these pipelines.</p> <p>Proposed improvements include the existing road for the construction of sidewalks extension and new accessible parking above Barceló Street and sidewalk extension above Muñoz Rivera Street. The municipality would implement a maintenance of traffic (MOT) plan to ensure pedestrian and traffic safety during construction. Traffic control signing and adequate fencing around construction areas while construction activities are undertaken would protect the public from hazards and nuisances. Signs will be posted informing of the construction of the project, and public access will be restricted by security fences.</p> <p>Noise impacts would be addressed by conducting construction and demolition activities in accordance with local noise regulations and proper construction equipment maintenance. Noise disturbance missions from the equipment used would be minimized by restricting the contractor's working hours to daytime hours, from 7:00 AM to 4:00 PM, Monday through Friday.</p>
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	1	Both the construction and operation of the project, would generate new direct and indirect employment that would have a positive impact on income and employment in the municipality.
Demographic Character Changes, Displacement	2	The project would not involve demographic changes or displacements. It is and will be a public facility.
Environmental Justice		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.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	The project would not involve new residents. The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	1	Access to nearby commercial facilities would be maintained throughout construction. Agencies, neighboring businesses, and the public in general would be informed in advance of any needed street closures or detours. The project would not directly affect nearby commercial facilities. Increased public use of the project area could indirectly benefit businesses by increasing visits in the area.
Health Care and Social Services	2	Health care and social services facilities would not be impacted by the proposed project. Access for emergency service providers would be maintained. The project would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	The project involves demolition and removal of the existing plaza flooring, fountains, and sidewalk accessibility barriers, and drainage improvements. The general contractor would manage implementation of the anticipated waste disposal methods. The Project would comply with the provisions of the Puerto Rico Regulation for the Reduction, Reuse and Recycling of Solid Waste (Regulation No. 6825 of 2004), as amended, and with all Department of Natural and Environmental Resources (DNER) requirements. Recycling recovered construction debris materials where possible would minimize generation of solid waste so that daily capacities of landfills and other solid waste facilities would not be exceeded.
Waste Water / Sanitary Sewers	3	The project will be connected to the existing 4-inch municipal sanitary sewer lines near the project site. The facility would not require an increase in capacity for the Puerto Rico Aqueduct and Sewer Authority (PRASA). All work will be done in coordination with the Puerto Rico Aqueduct and Sewer Authority (PRASA). Increase in wastewater from the project would be minor relative to the current demand for these services in the area.
Water Supply	3	The project will be connected to the existing 4-inch municipal water main lines near the project site. All work will be done in coordination with PRASA. The facility would not require an increase in capacity for the PRASA. Increase in demand for potable water from the project would be minor relative to the current demand for these services in the area.
Public Safety - Police, Fire and Emergency Medical	3	Traffic may have to be rerouted temporarily during construction. The municipality would implement an (MOT) plan to ensure that emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. Increased use of the project area due to increased capacity could result in a minor increase demand for these services.

Parks, Open Space and Recreation	1	The proposed project would not adversely affect any other existing parks, open space, or recreational activities. It also would not increase use of those existing facilities. The project would increase and improve the levels of public use available in the municipality. The increase in public visitation at improved plaza could generate increased visitation to nearby parks and recreation areas but would not require an increase in the capacity of these facilities to accommodate them.
Transportation and Accessibility	3	The proposed project would result in minor temporary traffic increases and access issues during construction. Traffic may be rerouted temporarily, or lane closures may be implemented to direct traffic away from construction activities. An MOT plan would be implemented by the municipality to address those short-term traffic effects and to provide the safest routes during construction. Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. When the project is completed, there will be a slight increase in traffic because the renovated plaza will have employees and visitors. However, traffic should flow normally in the area, as the increase is not significant.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	The project will not affect a unique natural features or water resources. The project site is developed on urban land with a damaged public plaza.
Vegetation, Wildlife	2	The proposed project activities would be within the existing plaza footprint, surrounding, sidewalks, roads, and parking areas. The entire project site has been previously disturbed, and there would be no increase in impermeable surfaces. The project would not significantly affect native vegetation. Additionally, the proposed project would not impact wildlife or wildlife habitat.
Other Factors		No other factors were identified that would be affected by the proposed project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>CLIMATE AND ENERGY</b>		
Climate Change Impacts		On January 20, 2025, President Donald Trump issued the Executive Order 14148 titled "Initial Rescissions of Harmful Executive Orders and Actions", which revoked Executive Order 14008 and eliminated federal mandates requiring agencies to assess climate change impacts. Consequently, there is no longer a federal requirement to address climate change concerns in the environmental compliance review process.

Environmental Assessment Factor	Impact Code	Impact Evaluation
Energy Efficiency	3	The renovated facility would increase energy consumption due to anticipated increased use, provision of charging stations, and the installation of lighting. However, the electrical system will be upgraded and be energy efficient.

**Additional Studies Performed:**

A limited inspection for the presence of asbestos containing materials (ACM) and lead based paint (LBP) was carried out on December 16, 2022, by Enviroresources, Inc.

**Field Inspection** (Date and completed by): The field inspection was completed on October 13, 2023, by Vanessa Batista Santiago and Irma Pagan Villegas (see Appendix D).

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

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

[www.faa.gov/airports/planning\\_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)

John H. Chafee Coastal Barrier Resources System, Puerto Rico map.

[www.fws.gov/CBRA/Maps/Locator/PR.pdf](http://www.fws.gov/CBRA/Maps/Locator/PR.pdf)

National Wild and Scenic Rivers System: [www.rivers.gov/puerto-rico.php](http://www.rivers.gov/puerto-rico.php)

Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018.

[www.cdbg-dr.pr.gov/en/action-plan/](http://www.cdbg-dr.pr.gov/en/action-plan/)

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

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book):

[www3.epa.gov/airquality/greenbook/anayo\\_pr.html](http://www3.epa.gov/airquality/greenbook/anayo_pr.html)

US EPA, Environmental Topics, Air Topics: [www.epa.gov/environmental-topics/air-topics](http://www.epa.gov/environmental-topics/air-topics)

US Fish and Wildlife Service, Environmental Conservation Online System:

<https://ecos.fws.gov/ecp/report/species-listings-by-state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed>

Federal Emergency Management Agency, Flood Mapping Service:

<https://msc.fema.gov/portal/home> (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:

[www.fws.gov/wetlands/data/mapper.html](http://www.fws.gov/wetlands/data/mapper.html) (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009.

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

**List of Permits Obtained:**

None required under NEPA. There may be subsequent additional approvals or permits from agencies required for the project before the start of construction. For example, permits may be required from PRDNER for any water or other utility connections and the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction approvals, and any other procedure necessary for business development and land use in Puerto Rico. In addition, during construction the project will have to comply with applicable regulations, requirements, and BMPs associated with general construction worker safety; public safety; management of hazardous material; spill control; use of heavy equipment; etc.

**Public Outreach [24 CFR 50.23 & 58.43]:**

A Notice of Finding of No Significant Impact (FONSI) and Notice of Intent to Request Release of Funds (NOIRROF) will be published in a local newspaper. Copies of that public notice also will be sent to all known interested parties.

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

The project area is part of larger, ongoing infrastructure improvements to address unsatisfied needs as a result of Hurricane Maria; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses. The municipality assessed locations in the urban center that warranted improvements to maximize their potential. Examples include the proposed conversion of the old Walter McK Jones School into a community center and emergency shelter, implementing improvements to the existing Plaza Interactiva building, and construction of a citizen service building annex to the City Hall in Villaba. The rehabilitation of the Plaza Pública José Ramón Figueroa Rivera project would contribute to these beneficial impacts. Adding a kiosk for a coffee shop with a bathroom, removing accessibility barriers, providing amenities for public use, and improving safety with the installation of lighting would serve a need for a public gathering facility that has been damaged and inefficient since it received storm damage from Hurricane Maria. It would also provide storage for emergency supplies for public distribution. Short-term impacts during construction would be mitigated by through the measures detailed in the table below and would not contribute to construction impacts surrounding the project area. The project will not contribute to adverse cumulative impacts.

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

Relocation and alternate reconstruction designs were considered as alternatives to the current action alternative to improve the Plaza Pública José Ramón Figueroa Rivera. Relocation of the plaza to an alternate location would not provide the central location required for the municipal gathering place. Relocation would not resolve the problem of the existing underused, damaged, and inaccessible plaza and would be prohibitively expensive. Alternate reconstruction designs would not meet the public use, safety, and accessibility needs of the municipality.

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

The No Action Alternative is considered unfeasible because it does not resolve the problem of a large, damaged, inefficient, and inaccessible Plaza Pública José Ramón Figueroa Rivera. It would not provide a needed facility for public use and providing aid during events like hurricanes or earthquakes.

**Summary of Findings and Conclusions:**

This environmental review finds that the proposed project activities would exert no significant adverse effect on quality of the human environment. The proposed project would be an appropriate use of HUD funds. It would comply with the environmental requirements for funding and would provide a net benefit to the community. The project site underwent renovation in the 1990s that required the demolition of the of buildings that could be from the late nineteenth or early twentieth century. PRSHPO found that the project, as proposed, would exert no adverse effect on historic properties within its area of potential effects, pursuant to following the PRSHPO-approved archaeological monitoring plan.

**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
<i>Contamination and Toxic Substances</i> <i>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</i>	<i>LBP identified in the December 16, 2022, limited LBP inspection would be removed during the rehabilitation of the project site. The contractor performing the renovation would estimate the amount of material to be abated. Per the PRDRNA lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates would be abated or removed. The firm providing the abatement services would be certified by the PRDRNA.</i>
<i>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</i>	<i>If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa Conservation Measures guidelines and the July 27, 2023, Amended Programmatic Biological Opinion.</i>

<p><i>Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</i></p>	<p><i>In accordance with the PRSHPO approved Work Plan for an Archaeological Monitoring Inspection for the Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project, archaeological monitoring would be conducted during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. PRSHPO would be notified at least 48 hours in advance of the start date for archaeological monitoring.</i></p>
<p><i>Conformance with Plans /Compatible Land Use and Zoning / Scale and Urban Design</i></p>	<p><i>The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.</i></p>

**Determination:**

- Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]  
The project will not result in a significant impact on the quality of the human environment.
- Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]  
The project may significantly affect the quality of the human environment.

**Preparer Signature:** *Genevieve Kaiser* **Date:** March 18, 2025

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

**Certifying Officer Signature:** *Limary Vélez Marrofo* **Date:** 03/20/2024

**Name/Title:** Limary Vélez Marrofo / Permits and Environmental Compliance Specialist

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

## **List of Attachments**

Appendix A – Worksheets

Appendix B – Maps, Figures, and Drawings

Appendix C – Clean Air Act

Appendix D – Contamination and Toxic Substances

Appendix E – Endangered Species

Appendix F – Historic Preservation

Appendix G – Permits

# **Appendix A**

## **Worksheets**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

## **Airport Hazards (CEST and EA) – PARTNER**

<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 → *If the RE/HUD agrees with this recommendation, 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

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. 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.

→ *If the RE/HUD agrees with this recommendation, 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.*

**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.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

### **Worksheet Summary**

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

There are no civilian airports within 2,500 feet of the project site and no military airports within 15,000 feet of the project site. The distance between the project and the existing airports are as follows:

Luis Muñoz Marín Airport (civilian) – 201,884.6 feet

Muñiz Air National Guard (military) – 206,897 feet

Mercedita International Airport (civilian) – 49,230.5 feet

Therefore, this topic is following HUD regulations.

See Appendix B, Figure 3.



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## Coastal Barrier Resources (CEST and EA) – PARTNER

<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 → *If the RE/HUD agrees with this recommendation, 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 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 recommended course of action for the RE/HUD

Consultation with the FWS

Cancel the project

### Worksheet Summary

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

A SF S Coastal Barrier Resources System Mapper Documentation Map is included showing that the project site is not included in nor affected by Coastal Barrier Resources System CBRS boundaries. The distance the closest CBRS PR-49P is 73,392 feet. Therefore, this topic is in compliance with D regulations.

See Appendix B, Figure 4.



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## Flood Insurance (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/flood-insurance>

**1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction 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).

**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.

Flood insurance is required. 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**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

The project is not a habitable structure nor is its critical infrastructure. A FEMA Flood Insurance Rate Map (FIRM) shows that the project is not located in a special Flood Hazard Area. (Zone X FIRM Panel 72000C1140J and effective date November 18, 2009).

Therefore, Flood insurance would not be required. Therefore, this topic is in compliance with HUD regulations.

See Appendix B, Figure 5.



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## Air Quality (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/air-quality>

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 → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.

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  
→ If the RE/HUD agrees with this recommendation, 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. → Continue to Question 3.

3. Determine the estimated emissions levels of your project for each of those criteria pollutants 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

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. 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.**

Click here to enter text.

### **Worksheet Summary**

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project does not include conversion of land use facilitating the development of public, commercial, or industrial facilities or five or more dwelling units.

The proposed project will not contribute to the emission of SO<sub>2</sub>. Sulfur dioxide is primarily derived from fossil fuel combustion at power plants and other industrial facilities, both of which will not be part of the proposed improvements.

The project area is not in a nonattainment designated area for Ozone pollutants described in the Criteria Pollutant Nonattainment Summary Report Green Book SO<sub>2</sub> EPA [https://www3.epa.gov/airquality/greenbook/naayo\\_pr.html](https://www3.epa.gov/airquality/greenbook/naayo_pr.html). Therefore, the project is in compliance with the Clean Air Act.

See Appendix C, Clean Air.



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## Coastal Zone Management Act (CEST and EA) – PARTNER

<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 Samoa	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 → *If the RE/HUD agrees with this recommendation, 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 → *If the RE/HUD agrees with this recommendation, 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. → *The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.*

Yes, without mitigation. → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.*

No → Project cannot proceed at this location.

### **Worksheet Summary**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

The proposed project is not inside the Puerto Rico's coastal zone. According to the Federal Coastal Zone Management Program adopted in Puerto Rico in 1978, the Coastal Zone extends 1,000 linear meters inland. The distance to the closest Coastal Zone is 44,709 feet. A map depicting the relation of the project to the Coastal Zone limits is included (PR Coastal Management Zone Limits from <https://gis.pr.gov/Pages/default.aspx>). Therefore, this topic is in compliance with HUD regulations. See Appendix B, Figure 6.



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## Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/site-contamination>

**1. How was site contamination evaluated? <sup>1</sup> 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 below.

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, 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. Can adverse environmental impacts be mitigated?**

- Adverse environmental impacts cannot feasibly be mitigated → HUD assistance may not be used for the project at this site. Project cannot proceed at this location.
- Yes, adverse environmental impacts can be eliminated through mitigation.

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<sup>1</sup> 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.

→ Provide all mitigation requirements<sup>2</sup> 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<sup>3</sup>, or use of institutional controls<sup>4</sup>.**

LBP identified in the December 16, 2022, limited LBP inspection would be removed during the rehabilitation of the project site. The contractor performing the renovation would estimate the amount of material to be abated. Per the PRDRNA lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates would be abated or removed. The firm providing the abatement services would be certified by the PRDRNA.

**If a remediation plan or clean-up program was necessary, which standard does it follow?**

- Complete removal
- Risk-based corrective action (RBCA)

→ Continue to the Worksheet Summary.

### **Worksheet Summary**

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of occupants of the property or conflict with intended use of the property.

The NEPAssist Tool (Accessed on December 15, 2022) does not identify the project site as a hazardous waste facility or a toxic release facility.

No Superfund (NPL), or Superfund Enterprise Management System (SEMS) listings were within 1 mile of the project site. One Brownfields (ACRES) listing was within 1 mile of the project site. The project site is within 3,000 feet of six Resource Conservation and Recovery Act (RCRA) Hazardous Waste listings, one Toxics Release Inventory (TRI) listings, and no Toxic Substances Control Act (TSCA) listings.

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<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

The Former Farmers Cooperative Can Plant at 17 Luchetti Street is the ACRES listing, approximately 928 feet northeast of the project site. A Phase I Site Assessment was performed for this facility in April 2011. The facility was identified as a former pea canning plant that is deteriorating internally, with the following on site recognized environmental conditions (RECs) associated with historic structures that previously existed on the site: historic use and potential existence of the former onsite septic tank, potential use of hazardous materials including lead based paints, asbestos containing materials, mercury and PCBs in building materials, and the structural integrity of the onsite structure. Leaking underground storage tanks from nearby properties and the use of pesticides and herbicides to manage the vegetation adjacent to the subject property were also listed as RECs for this facility. The slope from this facility is generally to the southeast and away from the project site. Based on distance and slope, this facility would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

The six RCRA sites are: Department of Education – Francisco Zayas Santana at PR 156 km 1, PR 150 km 0.1 Urb La Vega (649 feet southeast of the project site); Medtronic PR Inc. at PR 149 km 56.3 (1,150 feet west of the project site); Latas Libbys Inc. at PR 151 km 0.4 (1,809 feet east of the project site); Chevron Station at PR 151 km 0.5 (2,114 feet east of the project site); Texaco PR Inc. Villaba SS at PR 151 km 0.5 (2,114 feet east of the project site); and Super Ahorros #2343 at 7 B Calle Luis Munoz Rivera (288 feet north of the project site). These facilities were reported to have no RCRA violations over the last three years. Based on site status, these facilities would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

Medtronic PR Inc. also is the TRI listing within 3,000 feet of the project site. It is identified as an electromedical and electrotherapeutic apparatus manufacturing facility with reported air emissions of acetone, freon, and dichlorodifluoromethane. The facility is reported as having no Clean Air Act or RCRA violations in the last three years. Based on site status, this facility would not generate toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the project site.

A site visit was performed by Vanessa Batista Santiago and Irma Pagan Villegas on October 13, 2023. The inspection identified no RECs associated with the project site.

The project will not involve residents of increase in occupancy of any structure. There would be no increase in risks associated with the proposed project.

A limited inspection for the presence of asbestos containing materials (ACM) and lead based paint (LBP) was carried out on December 16, 2022, by Enviroresources, Inc. Seven of the 40 areas tested for LBP were found to be above the regulatory limit. No suspected ACM were identified by the inspector, and no bulk samples were collected. The inspector certified that there is no presence of ACM in the components proposed for demolition. In its report Enviroresources, Inc., indicated the amount of LBP present was an estimate and the contractor performing the renovation would estimate the amount of material to be abated. According to PRDRNA lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified by the PRDRNA.

D issued notice CPD-23-103 on January 11, 2024, regarding Departmental Policy for Addressing Radon in the Environmental Review Process. The notice intends to clarify that radon must be considered in the Environmental Review analysis for all D funded projects. The recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the reasons listed within the Radon Memorandum and associated agency correspondence found in Appendix D.

As part of the evaluation for this determination, PRD sent information requests to six 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 D'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.

This topic is in compliance with HUD regulations.

See Appendix B, Figure 7, and Appendix D.



## Endangered Species Act (CEST and EA) – PARTNER

<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.  
→ *If the RE/HUD agrees with this recommendation, 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:**  
Click here to enter text.  
→ *If the RE/HUD agrees with this recommendation, 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](#).

- No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.  
→ *If the RE/HUD agrees with this recommendation, 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. Recommend one of the following effects that the project will 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.

→ *If the RE/HUD agrees with this recommendation, 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.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

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

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

### **Worksheet Summary**

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

According to the USFWS IpaC tool, the Puerto Rican Boa (*Chilabothrus inornatus*) could potentially be affected by activities at the project site. The proposed activities are covered by the USFWS Blanket Clearance Letter for Federally sponsored projects, Housing and Urban Development of January 14, 2013. The USFWS determined that projects in compliance with any of 11 listed criteria would be not likely to adversely affect federally listed species. A Self-Certification that certifies that the project is in compliance and not likely to adversely affect federally-listed species, based on criteria 2 (construction of gutters and sidewalks along existing roads) and 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) was signed on January 22, 2024. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IpaC species list, it was determined that there would be No Effect for any of the listed species. If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Puerto Rico Department of Natural and Environmental Resources shall be contacted and asked to relocate the Boa in accordance with the USFWS Puerto Rican Boa Conservation Measures Guidelines and the January 2024, Amended Programmatic Biological Opinion. Therefore, this topic is in compliance with HUD regulations. See Appendix E, Endangered Species.



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**Explosive and Flammable Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities>

- 1. Does the proposed HUD-assisted project include 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:**

Click here to enter text.

→ Continue to Question 5.

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

No → If the RE/HUD agrees with this recommendation, 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:**

- Of more than 100-gallon capacity, containing common liquid industrial fuels OR
- Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?

No → If the RE/HUD agrees with this recommendation, 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. Is the Separation Distance from the project acceptable based on standards in the Regulation?**

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

Yes

→ If the RE/HUD agrees with this recommendation, 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 any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

No

→ Continue to Question 6.

*Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”*

**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

→ *If the RE/HUD agrees with this recommendation, 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

→ Continue to Question 6.

*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.*

**6. 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 make the Separation Distance acceptable, including the timeline for implementation. 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.

[Click here to enter text.](#)

**Worksheet Summary**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

The proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks.

The scope of the proposed project does not include development, construction, conversion, or rehabilitation activities that would increase residential densities. The project would not introduce new housing. The increased use of the site could introduce sensitive public uses that could be exposed to explosive or flammable hazards.

A site visit was performed by Vanessa Batista Santiago and Irma Pagan Villegas on October 13, 2023, which confirmed that no ASTs were present within 500 feet of the project site. This project complies with the Explosive and Flammable Hazards requirements. See Appendix D.



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## Farmlands Protection (CEST and EA) - PARTNER

<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

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

**2. Does your project meet one of the following exemptions?**

- Project on land already in or committed to urban development or used for water storage ([7 CFR 658.2\(a\)](#)). To check whether the project location is located in an urbanized area, use the following US Census Bureau application: [TIGERweb](#)
- Construction limited to on-farm structures needed for farm operations
- Construction is limited to new minor secondary (accessory) structures such as a garage or storage shed

Yes → *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 → *Continue to Question 3.*

**3. 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/](http://soils.usda.gov/contact/state_offices/) for assistance

No → *If the RE/HUD agrees with this recommendation, 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 4.

**4. 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"](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- 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 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

**Work with the RE/HUD to determine how the project will proceed. Document the 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.**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, 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:**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, 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**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

The project does not include any activities that could convert agricultural land to non-agricultural use.

The proposed project is located on an already developed urban parcel. According to the U.S.

Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act. The project is on urban land.

Therefore, this topic complies with the regulation.

See Appendix B, Figure 9.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
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**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 Executive Order 13690 42 USC <u>4001-4128</u> 42 USC 5154a	24 CFR 55
<b>Reference</b>		
<a href="https://www.hudexchange.info/environmental-review/floodplain-management">https://www.hudexchange.info/environmental-review/floodplain-management</a>		

1. Does this project meet an exemption at [24 CFR 55.12](#) from compliance with HUD’s floodplain management regulations in Part 55 or utilize the delayed compliance date for certain Office of Housing programs?

Yes

Select the applicable citation at [24 CFR 55.12](#) and provide supporting documentation for the determination if applicable.

- a)  HUD-assisted activities described in 24 CFR 58.34 and 58.35(b)
- b)  HUD-assisted activities described in 24 CFR 50.19, except as otherwise indicated in § 50.19
- c)  The approval of financial assistance for restoring and preserving the natural and beneficial functions and values of floodplains and wetlands, including through acquisition of such floodplain and wetland property, where a permanent covenant or comparable restriction is place on the property’s continued use for flood control, wetland projection, open space, or park land, but only if:
  - (1) The property is cleared of all existing buildings and walled structures; and
  - (2) The property is cleared of related improvements except those which:
    - (i) Are directly related to flood control, wetland protection, open space, or park land (including playgrounds and recreation areas);
    - (ii) Do not modify existing wetland areas or involve fill, paving, or other ground disturbance beyond minimal trails or paths; and
    - (iii) Are designed to be compatible with the beneficial floodplain or wetland function of the property.
- d)  An action involving a repossession, receivership, foreclosure, or similar acquisition of property to protect or enforce HUD's financial interests under previously approved loans, grants, mortgage insurance, or other HUD assistance
- e)  Policy-level actions described at 24 CFR 50.16 that do not involve site-based decisions
- f)  A minor amendment to a previously approved action with no additional adverse impact on or from a floodplain or wetland;

- g)  HUD's or the responsible entity's approval of a project site, an incidental portion of which is situated in the FFRMS floodplain (not including the floodway, LiMWA, or coastal high hazard area) but only if:
  - (1) The proposed project site does not include any existing or proposed buildings or improvements that modify or occupy the FFRMS floodplain except de minimis improvements such as recreation areas and trails; and
  - (2) the proposed project will not result in any new construction in or modifications of a wetland
- h)  Issuance or use of Housing Vouchers or other forms of rental subsidy where HUD, the awarding community, or the public housing agency that administers the contract awards rental subsidies that are not project-based (i.e., do not involve site-specific subsidies)
- i)  Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.

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

Yes. Office of Housing programs utilizing the January 1, 2025 compliance date. These reviews must comply with the 2013 version of the Part 55 regulations. Continue to Worksheet Summary for 2013 version to upload supporting documentation.

No. *Continue to Question 2.*

**2. Does the project include a Critical Action?**

Yes. Describe the Critical Action. Examples of Critical Actions include projects involving hospitals, fire and police stations, nursing homes, hazardous chemical storage, storage of valuable records, and utility plants. Continue to Question 4.

No. Continue to Question 3.

**3. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.**

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Include documentation and an explanation of why this

is the best available information for the site. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

**Select one of the following three options:**

CISA for non-critical actions. If using a local tool, data, or resources, ensure that the FFRMS elevation is higher than would have been determined using the 0.2 PFA or the FVA.

0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. If neither CISA nor 0.2-PFA is available, for non-critical actions, the FFRMS floodplain is the area that results from adding two feet to the base flood elevation as established by the effective FIRM or FIS or—if available—a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

**a. Does your project occur in the FFRMS floodplain?**

Yes, continue to part b.

No. Review for floodplain management is complete.

**b. Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.**

Floodway: *Continue to Question 5. Floodways.*

Coastal High Hazard Area (V Zone) or Limit of Moderate Wave Action (LiMWA): *Continue to Question 6. Coastal High Hazard Areas and LiMWAs.*

**4. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.**

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), or the higher of the 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

**Utilize CISA to determine the FFRMS floodplain for critical actions**

CISA for Critical Actions. If using a local tool, ensure that the FFRMS elevation provided is higher than the 0.2 PFA or 3' above the base flood elevation.

**OR;**

**Choose the higher of 0.2 PFA or FVA elevations**

0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. For critical actions, the FFRMS floodplain is the area that results from adding three feet to the base flood elevation as established by the effective FEMA FIRM or FIS or—if available—a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

**a. Does your project occur in the FFRMS floodplain?**

Yes, continue to part b.

No. Review for floodplain management is complete.

**b. Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.**

Floodway: *Continue to Question 5. Floodways.*

Coastal High Hazard Area (V Zone) or LiMWA: *Continue to Question 6. Coastal High Hazard Areas and LiMWAs.*

**5. Floodways**

**Do the floodway exemptions at [55.8](#) or [55.21](#) apply?**

Yes

The 8-Step Process is required. Document mitigation measures necessary to meet the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice.

*Continue to Question 7. 8-Step Process.*

No

**Federal assistance may not be used at this location.** You must either choose an alternate site or cancel the project at this location.

**6. Coastal High Hazard Area (V Zone) and LiMWAs**

**Do the exemptions at [55.8](#) or [55.21](#) apply?**

Yes

The 8-Step Process is required. Document mitigation measures necessary to meet the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice.

*Continue to Question 7. 8-Step Process.*

No

**Federal assistance may not be used at this location.** You must either choose an alternate site or cancel the project at this location.

**7. 8-Step Process.**

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

8-Step Process is inapplicable per 55.13.

Select the applicable citation:

- (a) 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 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, coastal high hazard area, or LiMWA;
- (b) 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)(12);
- (c) HUD or a recipient's actions involving the disposition of individual HUD or recipient held, one- to four-family properties;
- (d) HUD guarantees under the Loan Guarantee Recovery Fund Program (24 CFR part 573), 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;
- (e) The approval of financial assistance to lease units within an existing structure located within the floodplain, but only if;
  - (1) 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); and
  - (2) The project is not a critical action; and
  - (3) The entire structure is or will be fully insured or insured to the maximum extent available under the NFIP for at least the term of the lease.
- (f) Special projects for the purpose of improving efficiency of utilities or installing renewable energy that involve the repair, rehabilitation, modernization, weatherization, or improvement of existing structures or infrastructure, do not meet the thresholds for "substantial improvement" under § 55.2(b)(12), and do not include the installation of equipment below the FFRMS floodplain elevation.

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

5-Step Process is applicable per 55.14.

Provide documentation of 5-Step Process.

Select the applicable citation:

- (a) 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).

- (b) 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.
- (c) 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 increased by more than 20 percent.
- (d) 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 increased by more than 20 percent
- (e) HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, or replacement of existing nonstructural improvements including streets, curbs and gutters, where any increase of the total impervious surface area of the facility is de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons.

*Continue to Question 8. Mitigation.*

- 8-Step Process applies.

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

*Continue to Question 8. Mitigation.*

## **8. Mitigation**

**For the project to comply with this section, all adverse impacts must be mitigated. Explain in detail the measures that must be implemented to mitigate the impact or effect, including the timeline for implementation. Note: newly constructed and substantially improved structures within the FFRMS floodplain must be elevated to the FFRMS floodplain elevation or floodproofed, if applicable.**

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

- Buyout and demolition or other supported clearance of floodplain structures
- Insurance purchased in excess of statutory requirement under the Flood Disaster Protection Act of 1973
- Permeable surfaces
- Natural landscape enhancements that maintain or restore natural hydrology
- Planting or restoring native plant species
- Bioswales
- Stormwater capture and reuse
- Green or vegetative roofs with drainage provisions
- Natural Resources Conservation Service conservation easements or similar easements
- Floodproofing of structures as allowable (e.g. non-residential floors)
- Elevating structures (including freeboard above the required base flood elevations)
- Levee or structural protection from flooding
- Channelizing or redefining the floodway or floodplain through a Letter of Map Revision (LOMR)

*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:

- FIRM panel numbers
- CISA data or maps
- Information on other data or tools used or accessed
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers

The proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain. The presence of the location in a FFRMS floodplain was assessed using the best available data and the FEMA-defined 0.2 Percent-Annual-Chance Floodplain Approach (0.2PFA). The project site is not within the 0.2 percent chance of flood, nor is there any hydrologic or hydraulic data to indicate the likelihood of flooding at the project site. The Project site is not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the FEMA Recommended Base Flood Level Maps (Advisory Maps), Map from December 11, 2018. The project site is within the Zone X area of minimal flood hazard. The project is not considered a critical action under 24 CFR Part 55. The Project is in compliance with Executive Order 11988, particularly section 2(a); 24 CFR Part 55, as amended by Executive Order 13690. See Appendix B, Figure 8, and Figure 5

- Any additional requirements specific to your region

**Include all documentation supporting your findings in your submission to HUD**

**Worksheet Summary for 2013 Version**

**Compliance Determination**

Attach 'Floodplain Management Partner Worksheet' (OMB No. 2506-0177), FIRM map indicating project location, and summary of 8-step or 5-step decision making process if applicable.

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

**Include all documentation supporting your findings in your submission to HUD**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

## Historic Preservation (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/historic-preservation>

### Threshold

#### Is Section 106 review required for your project?

- No, because a Programmatic Agreement states that all activities included in this project are exempt. (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:**

[Click here to enter text.](#)

→ *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:**

[Click here to enter text.](#)

→ *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, HUD or the RE will 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.

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

**Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.**

#### **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 the RE or HUD 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 only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

**List all organizations and individuals that you believe may have an interest in the project here:**  
Puerto Rico State Historic Preservation Office (PRSHPO).

→ *Continue to Step 2.*

## **Step 2 - Identify and Evaluate Historic Properties**

**Provide a preliminary definition of 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.

See Appendix F.

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.

See Appendix F.

*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:  
Click here to enter text.

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 to recommend to the RE or HUD.**

**Please note: this is a recommendation only. It is not the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.**

No Historic Properties Affected

**Document reason for finding:**

- No historic properties present.
- Historic properties present, but project will have no effect upon them.

No Adverse Effect

**Document reason for finding and provide any comments below.**

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the area of potential effect (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 project activities will not adversely affect the historic properties that compose the Area of Potential Effect (APE). However, because the renovation that the Plaza underwent in the 1990s required the demolition of the of buildings that could be from the late nineteenth or early twentieth century, it recommended carrying out archaeological monitoring during the excavation. These findings were submitted as part of the consultation package submitted to PRSHPO on March 28, 2024.

In a letter dated April 19, 2024, PRSHPO concurred with the determination that the proposed project will have no adverse effect for this undertaking conditioned to archaeological monitoring during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. PRSHPO requested an archaeology work plan for review and concurrence.

On June 27, 2024, the proposed Work Plan for an Archaeological Monitoring Inspection for the Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project was submitted to PRSHPO. In a letter dated July 11, 2024, PRSHPO acknowledged receipt of and accepted the archaeological monitoring work plan and concurred with its implementation. PRSHPO requested notification of the archaeological monitoring start date 48 hours prior to the initiation of work.

On January 24, 2025, documentation for expansion of the scope of work of the project to include the installation of new 60 x 60 concrete pavers along the east side of the church to the north of the original project footprint. The letter requested concurrence with a determination that the proposed scope of work will not change the previous finding of no adverse effect, conditioned to the implementation of the Archaeological Monitoring Plan that was approved by SHPO in a letter dated July 11, 2024. On February 6, 2025, SHPO concurred with the determination that the updated scope of work will not change the previous finding of no adverse effect, conditioned to the implementation of the approved Archaeological Monitoring Plan.

See Appendix F.

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](#)]

[Click here to enter text.](#)

**Provide any comments below:**

Comments may include recommendations for avoidance, minimization, and/or mitigation.

[Click here to enter text.](#)

*Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.*



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## Noise (CEST Level Reviews) – PARTNER

<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 4.

- Rehabilitation of an existing residential property

NOTE: For modernization projects in all noise zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

→ Continue to Question 2.

- None of the above

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

**2. Do you have standardized noise attenuation measures that apply to all modernization and/or minor rehabilitation projects, such as the use of double glazed windows or extra insulation?**

- Yes

**Indicate the type of measures that will apply (check all that apply):**

- Improved building envelope components (better windows and doors, strengthened sheathing, insulation, sealed gaps, etc.)

- Redesigned building envelope (more durable or substantial materials, increased air gap, resilient channels, staggered wall studs, etc.)

- Other (explain below)

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below and provide any documentation.

- No

→ Continue to Question 3.

**3. 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).**

**Describe findings of the Preliminary Screening:**

Click here to enter text.

→ Continue to Question 6.

**4. 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.

→ If the RE/HUD agrees with this recommendation, 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 5.

**5. 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:** Click here to enter text.

→ If the RE/HUD agrees with this recommendation, 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:** Click here to enter text.

**Is the project in a largely undeveloped area<sup>1</sup>?**

No → **The project requires completion of an Environmental Assessment (EA) pursuant to 51.104(b)(1)(i).**

Yes → **The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i).**

→ Work with the RE/HUD to elevate the level of review. Provide noise analysis, including noise level and data used to complete the analysis.  
Continue to Question 6.

Unacceptable: (Above 75 decibels)

**Indicate noise level here:** Click here to enter text.

**The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Work with HUD or the RE to either complete an EIS or obtain a waiver signed by the appropriate authority.**

→ Continue to Question 6.

---

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

**6. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD on the development of the mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

- Mitigation as follows will be implemented:

[Click here to enter text.](#)

→ *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:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

**Worksheet Summary**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

The noise that will be produced during the construction phase of the project will be generated by the construction equipment. The noise levels attributable to construction activities will be temporary in nature and it is expected it will not exceed 65 BA.

The noise to be produced during the period of operation will be that normally produced by the operation of small commercial establishments in the area. No additional impact is expected.

HUD's noise regulations protect residential properties from excessive noise exposure. HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential property.

Therefore, the project complies with the regulation.



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## Sole Source Aquifers (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/sole-source-aquifers>

### 1. Is the project located on a sole source aquifer (SSA)<sup>1</sup>?

No → *If the RE/HUD agrees with this recommendation, 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 in relation to the nearest SSA.*

Yes → *Continue to Question 2.*

### 2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

No → *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 → *Continue to Question 4.*

No → *Continue to Question 5.*

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

Yes → *If the RE/HUD agrees with this recommendation, 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.*

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.

---

<sup>1</sup> 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 → *If the RE/HUD agrees with this recommendation, 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 → *The RE/HUD will 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. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

**Worksheet Summary**

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.

See Appendix B, Figure 10.



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## Wetlands (CEST and EA) – Partner

<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" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any any structures or facilities.

No → *If the RE/HUD agrees with this recommendation, 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 a wetland as defined in E.O. 11990?**

No → *If the RE/HUD agrees with this recommendation, 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 → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

**3. Does Section 55.12 state that the 8-Step Process is not required?**

No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

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

**Provide the applicable citation at 24 CFR 55.12(a) here.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

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

**Provide the applicable citation at 24 CFR 55.12(b) here.**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.*

8-Step Process is inapplicable per 55.12(c).

**Provide the applicable citation at 24 CFR 55.12(c) here.**

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.*

### **Worksheet Summary**

Provide a full 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 program or region

### **Include all documentation supporting your findings in your submission to HUD.**

According to National Wetlands Inventory (NWI) mapping, the nearest wetlands to project site are riverine wetlands approximately 248 feet to the east and 364 feet to the west of the southern end of the project site. The project is in compliance with Wetlands Protection requirements.

See Appendix B, Figure 11.



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## Wild and Scenic Rivers (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers>

### 1. Is your project within proximity of a Wild and Scenic River, Study River, or Nationwide Rivers Inventory River?

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination.*

Yes → *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.

Consult with the appropriate federal/state/local/tribal Managing Agency(s), 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.

#### Select one:

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.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

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.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

### Worksheet Summary

Provide a full 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 program or region

**Include all documentation supporting your findings in your submission to HUD.**

As per US Forest Service Geospatial Data Discovery

(<https://nps.maps.arcgis.com/apps/MapJournal/index.html?appid=ba6debd907c7431ea765071e9502d5ac#>),

no federally-designated Wild and Scenic Rivers are within or in the immediate vicinity of the

project area. The nearest designated Wild and Scenic River is more than 40 miles northeast of the

project site. The project is in compliance with Wild and Scenic Rivers requirements.

See Appendix B, Figure 12.

**Appendix B**  
**Maps, Figures, and**  
**Drawings**

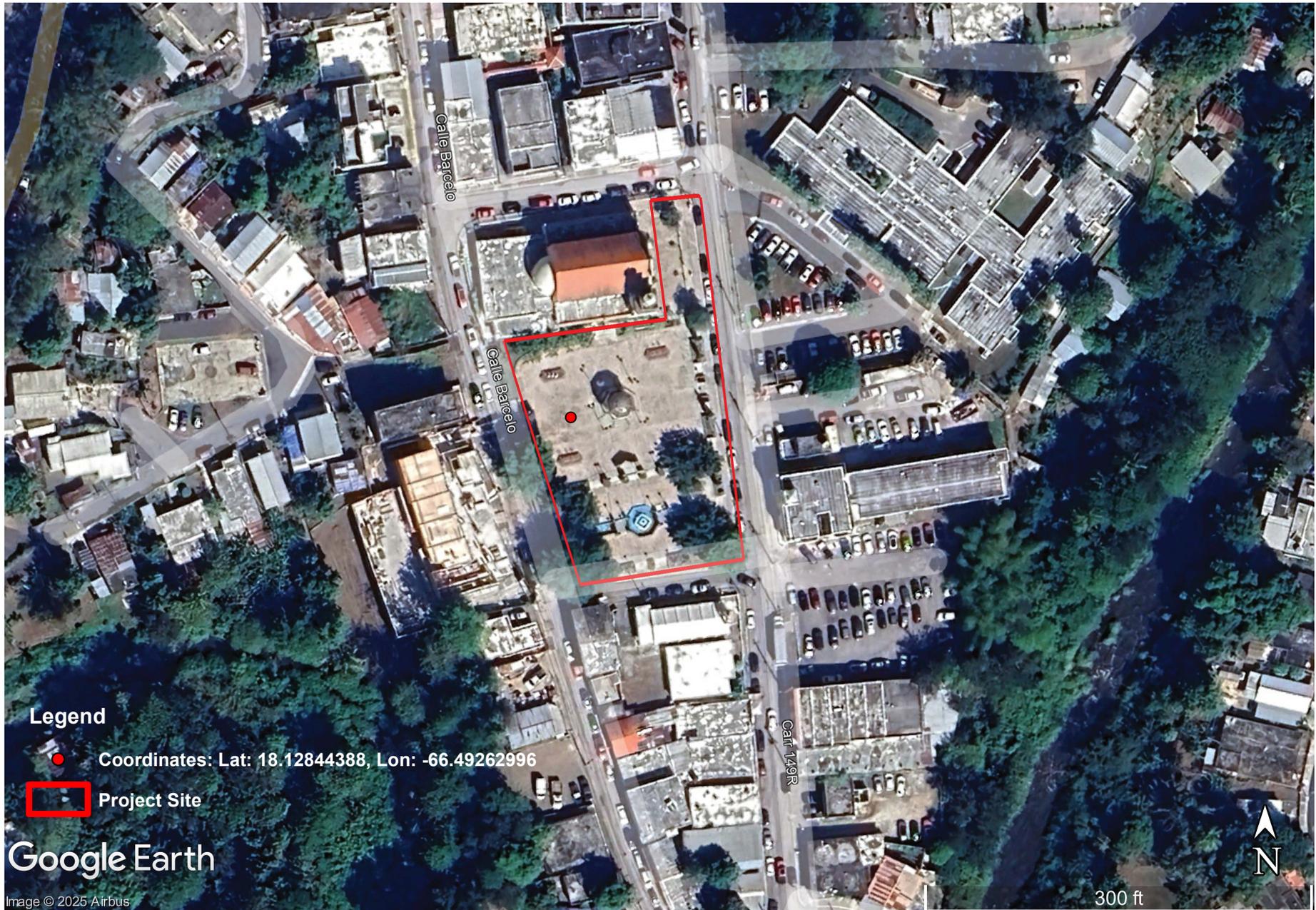


# Figure 1. Project Site

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996

Plaza Pública José Ramón Figueroa Rivera



## Legend

● Coordinates: Lat: 18.12844388, Lon: -66.49262996

▭ Project Site

Google Earth

Image © 2025 Airbus

300 ft



# Figure 1. Project Site

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766  
Lat: 18.12844388, Lon: -66.49262996

**Plaza Pública José Ramón Figueroa Rivera**





## GENERAL NOTES

1. CONTRACTOR SHALL COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE DESIGNER FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO THE DESIGNER FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
5. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION
6. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
7. MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
8. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
9. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH OWNER OR REPRESENTATIVE TO ENSURE SECURITY.
10. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE DESIGNER.
11. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
12. COORDINATE AND PROVIDE BACKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS OR CEILINGS.
13. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.
14. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.

## FIRE DEPARTMENT NOTES

1. PROVIDE AS PER CODES PORTABLE FIRE EXTINGUISHER TO COMPLY WITH TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR.
2. PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
3. PROVIDE EMERGENCY LIGHTING AT FLOOR LEVEL TO COMPLY WITH BUILDING CODES.
4. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
6. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
7. AS REQUIRED, DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
8. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL IN ANY HAZARDOUS AREA.
9. INTERIOR WALL AND CEILING FINISHES FOR EXIT CORRIDOR SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING:
  - A. CLASS I, FLAME SPREAD 0-25, SMOKE DENSITY 150, FOR MATERIALS INSTALLED IN VERTICAL EXITS.
  - B. CLASS II, FLAME SPREAD 26-75, SMOKE DENSITY 300, FOR MATERIALS INSTALLED IN HORIZONTAL EXITS.
  - C. CLASS III, FLAME SPREAD 76-200, SMOKE DENSITY 450, FOR MATERIALS INSTALLED IN ANY OTHER LOCATION.
10. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
11. PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS.

12. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
13. WOOD BLOCKING SHALL BE FIRE TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
14. EXTEND OR MODIFY EXISTING FIRE/LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE/ LIFE SAFETY SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
15. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
16. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF FLASHES PER MINUTE AS REQUIRED.
17. EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
18. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

## REFLECTED CEILING NOTES

1. DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE.
2. WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHODS MAY BE EMPLOYED:
  - A. PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORTS 12 FEET ON CENTER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 4" FROM EACH WALL.
  - B. ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS; MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS.
  - C. PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL.
  - D. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
3. LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES, CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS, UNLESS OTHERWISE NOTED.
4. FINISH HVAC DIFFUSERS, DRAPERY POCKETS, AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.

## POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB, REVIEW LOCATIONS WITH THE DESIGNER AND COORDINATE LOCATIONS WITH OWNER.
2. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
3. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
4. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT.
5. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
6. PROVIDE LIGHT SWITCHING IN CONFORMANCE WITH TITLE 24 REQUIREMENTS. FOR ROOMS OR AREAS GREATER THAN 100 SQUARE FEET PROVIDE DOUBLE SWITCHES WITH EACH SWITCH CONTROLLING 50% OF LAMPS PER FIXTURE.
7. MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY TITLE 24 AND ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.
8. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.

9. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
10. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED.
11. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.

## FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVERED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

## DISABLED ACCESS NOTES

1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS OR SPECIAL ACCESS LIFTS.
  2. FLOOR SURFACES SHALL BE SLIP-RESISTANT.
3. EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.
4. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS WITH A SLOPE NO GREATER THAN 1:2.
5. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE FLOOR FINISH AS INDICATED.
6. CENTER HAND ACTIVATED DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE THE FLOOR.
7. MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
8. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSHER SIDE OF NARROW FRAME DOORS.
9. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
10. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
11. IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
12. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
13. FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY, CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
14. TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

15. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.

16. SANITARY FACILITIES LOCATED ON AN ACCESSIBLE FLOOR OF A BUILDING SHALL BE ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.

17. ENTRY TO SANITARY FACILITIES:
  - A. 44" CLEAR AISLES OR CORRIDORS WHERE OCCUPANT LOAD IS 10 OR MORE.
  - B. DOORWAYS TO HAVE A 32" CLEAR OPENING.
  - C. ON APPROACH SIDE, PROVIDE A 60" CLEAR LEVEL SPACE WHEN DOOR SWINGS TOWARD APPROACH AND 44" SPACE WHEN DOOR SWINGS AWAY FROM APPROACH.

18. TOILET ROOM ACCESSORIES AS INDICATED ON PLANS:
  - A. MOUNT BOTTOM EDGE OF MIRRORS NO HIGHER THAN 40" FROM THE FLOOR.
  - B. MOUNT TOILET TISSUE DISPENSERS WITHIN 12" FROM THE FRONT EDGE OF THE TOILET SEAT.
  - C. MOUNT DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS NO HIGHER THAN 40" FROM THE FLOOR.

19. SINGLE ACCOMMODATION TOILET FACILITY
  - A. WATER CLOSET TO HAVE A 28" CLEARANCE FROM A FIXTURE AND 32" FROM A WALL.
  - B. MINIMUM CLEAR SPACE IN FRONT OF WATER CLOSET TO BE 48".
  - C. A SPACE 36" X 48" IS PERMITTED IN FRONT OF EXISTING WATER CLOSET ACCESSIBLE TO THE HANDICAPPED.

20. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) SHALL BE BETWEEN 17" AND 19".

21. MOUNT FLUSH VALVE CONTROL NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST SEPARATION FROM ADJACENT WALL OR OTHER SURFACE.

22. PROVIDE GRAB BARS ON EACH SIDE, OR ONE SIDE AND BACK OF WATER CLOSET.
  - A. GRAB BARS TO BE 33" ABOVE AND PARALLEL TO THE FLOOR.
  - B. SIDE BARS TO BE 42" LONG AND PROJECT 24" IN FRONT OF WATER CLOSET STOOL. GRAB BAR AT BACK TO BE 36" LONG.
  - C. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
  - D. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
  - E. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
  - F. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
  - G. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
  - H. EDGES SHALL HAVE A MINIMUM RADIUS OF 18".
23. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO

24. MOUNT LAVATORIES WITH A MINIMUM CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. PROVIDE KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH WITH 8" MINIMUM WIDTH, AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY.

25. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

26. INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES.

27. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES. PERMIT A FORWARD APPROACH.



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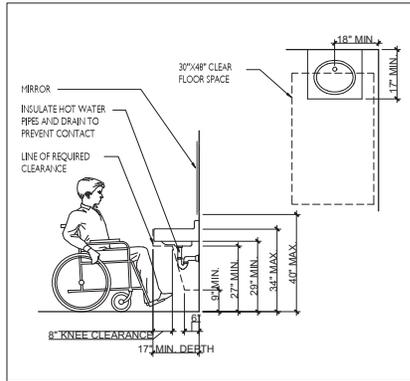
**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
**CALE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
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JANUARY 26, 2024 PROJECT DATE  
PROFESSIONAL  
CICU DESIGN OFFICE

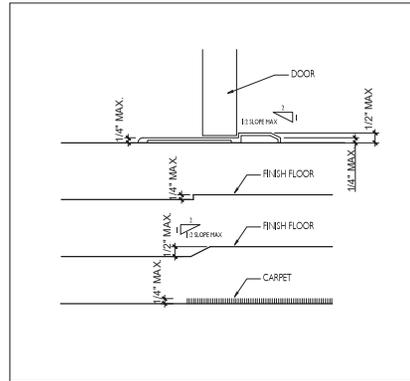
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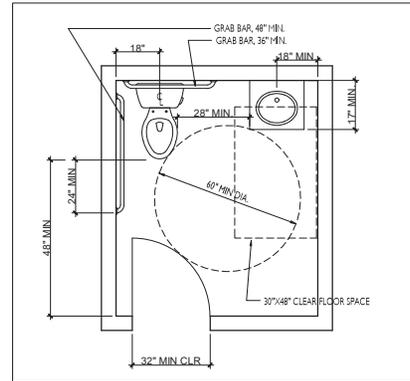
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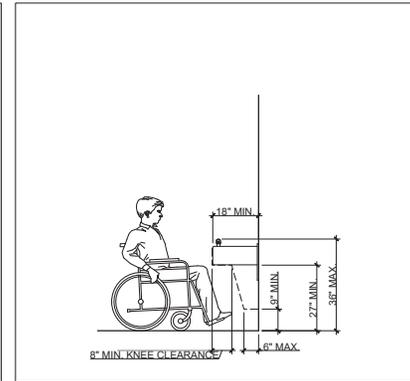
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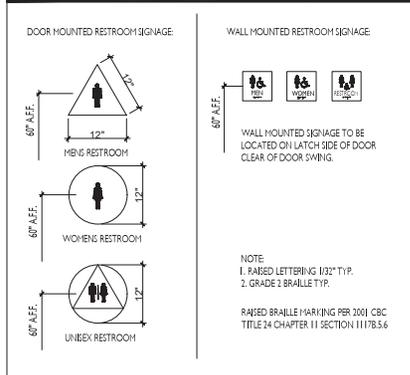
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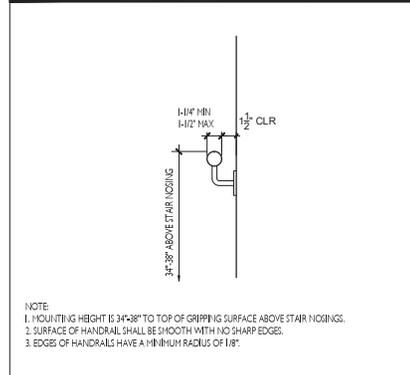
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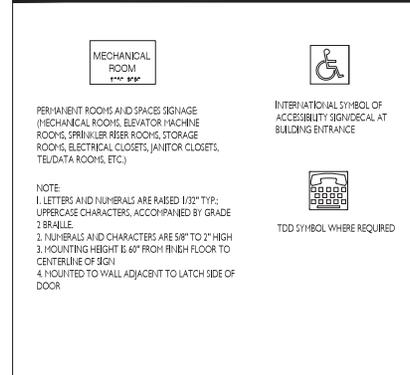
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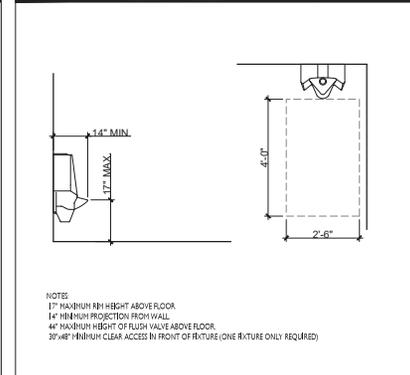
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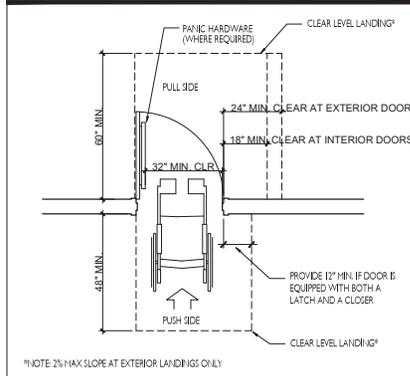
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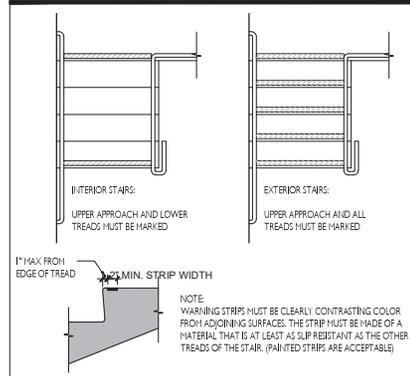
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**HC ACCESSIBLE URINAL**  
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**TYP. DOOR LANDING CLEARANCES**  
SCALE: N.T.S.



**VISUALLY IMPAIRED WARNING STRIPING**  
SCALE: N.T.S.

RESTROOM ACCESSORY MOUNTING HEIGHT					
<p>GRAB BAR @ TOILET</p>	<p>GRAB BAR</p>	<p>TOILET TISSUE HOLDER</p>	<p>COMBINATION T.P. SEAT COVER DISPENSER</p>	<p>COMBINATION WASTE/TOWEL UNITS</p>	<p>SANITARY NAPKIN VENDOR</p>
<p>NOTE: MOUNTING HEIGHT FROM FINISHED FLOOR TO HIGHEST OPERABLE CONTROL, TYPICAL.</p>	<p>TOWEL BAR</p>	<p>CLOTHES HOOK</p>	<p>OUTLETS</p>	<p>SWITCHES</p>	<p>MIRROR</p>

**RESTROOM ACCESSORY MOUNTING HEIGHT**  
SCALE: N.T.S.



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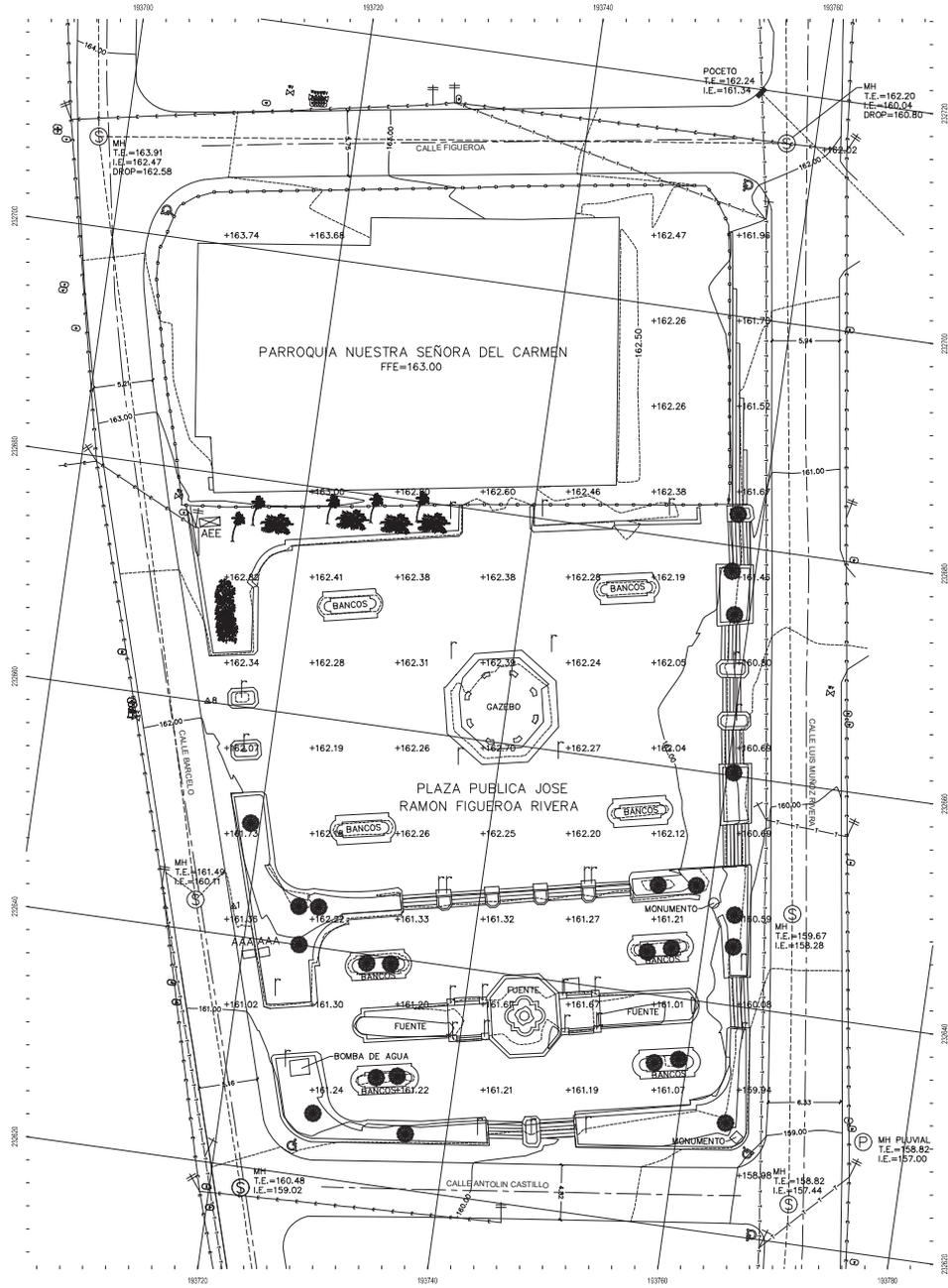
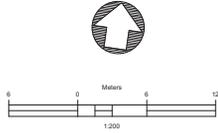
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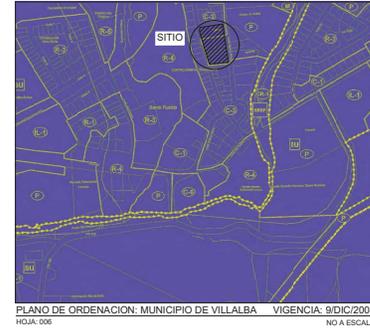
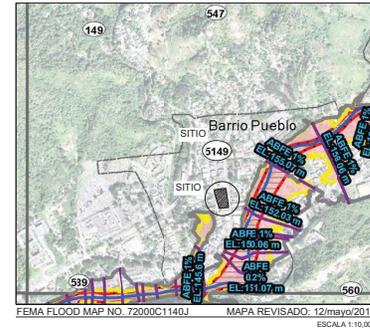
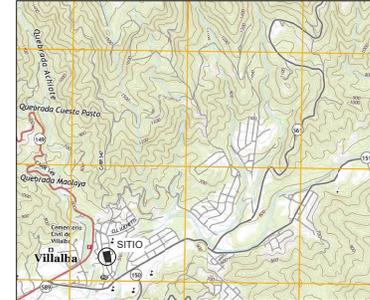
ADA GUIDELINES & GENERAL NOTES  
SHEET TITLE

G-101 SHEET NO.



- LEYENDA:
- LINEA DE CENTRO DE CALLE
  - VERJA EXISTENTE
  - LINEA ELECTRICA PRIMARIA Y/O SECUNDARIA
  - LINEA DE TELECOMUNICACIONES
  - TUBERIA SANITARIA DE 8" Ø
  - TUBERIA PLUVIAL DE 12" Ø
  - POSTE CON LINEAS ELECT. PRIM. Y/O SEC.
  - POSTE DE TELECOMUNICACIONES
  - POSTE DE ALUMBRADO
  - CONTADOR DE AGUA
  - VALVULA
  - MANHOLE SANITARIO
  - PUNTO DE CONTROL
  - ARBOL EXISTENTE

Puntos de Control				
Punto #	Norte	Este	Elevación	Descripción
1	232642.520	193718.693	161.56	STA.PK
8	232660.053	193713.939	162.24	STA.PK



NOTAS:

- EL CONTROL HORIZONTAL HA SIDO REFERENCIADO AL SISTEMA DE COORDENADAS PUERTO RICO NAD 83(2011) (EPSCH2010.00007).
- TODAS LAS DISTANCIAS ESTAN EXPRESADAS EN METROS, O DE OTRA FORMA ESPECIFICADA.
- LA INFORMACION ILUSTRADA EN ESTE PLANO REPRESENTA EL RESULTADO DE LA MENSURA REALIZADA EN LA FECHA INDICADA Y SOLO PUEDE SER CONSIDERADA COMO UNA INDICACION DE LAS CONDICIONES GENERALES EXISTENTES EN ESE MOMENTO.
- EL INTERVALO DE LAS LINEAS DE CONTORNO ES DE 0.50 METRO.

COMPANIA

**Terraverde, LLC**  
Construcción, Diseño y Más...

INFO

www.terraverdepr.com  
terraverde.info@gmail.com  
tel (787) 844-2712  
PO Box 800986 Coto Laurel, PR 00780-0986

- SERVICIOS
- Construcción en General (Remodelaciones)
  - Arquitectura y Diseño Paisajista (Mantenimiento de Exteriores)
  - Agrimensura (Mensuras, Topografías)
  - Gestoría de Permisos

CERTIFICACION

RAFAEL MOJICA TORRES  
AGRIMENSOR LICENCIADO  
LIC. NUM. 9316

PROYECTO

**MENSURA Y TOPOGRAFIA  
PLAZA DE VILLALBA**

PROPIEDAD DE

**MUNICIPIO DE VILLALBA**

UBICACION

**CALLE BARCELO  
VILLALBA, PUERTO RICO  
00766**

Num.	Descripción	Fecha

Título

**PLANO DE MENSURA Y TOPOGRAFIA**

Fecha: October 22

Dibujado por: GMT

Verificado por: RMT

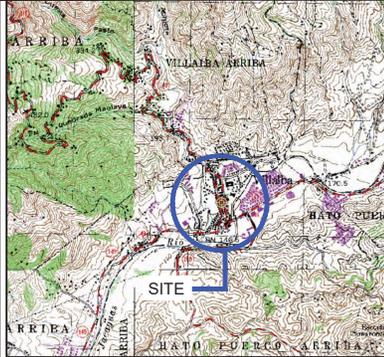
Fichero: (municipio plaza.dwg)

ID de Hoja: M - 1      Num. de Hoja: 1 / 1

Escala: 1 : 350

# CIVIL PLANS SET FOR JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION

CALLE BARCELO VILLALBA ,PUERTO RICO

		<p><b>GENERAL NOTES</b></p> <ol style="list-style-type: none"> <li>1. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE CONSTRUCTION DRAWINGS, SPECIFICATIONS OR ANY REFERRED STANDARD, THE MORE RESTRICTIVE PROVISION SHALL APPLY.</li> <li>2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEFORE ORDERING ANY MATERIAL. DIFFERENCES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF ENGINEER AND NO ACTION SHALL BE TAKEN UNTIL APPROVED BY ENGINEER.</li> <li>3. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS, IN WHOLE OR IN PART, OF DRAWINGS PREPARED BY ENGINEER. SHOP DRAWINGS SHALL BE PREPARED ENTIRELY BY MANUFACTURER, FABRICATOR OR INSTALLER BASED ON INFORMATION WITHIN THESE DRAWINGS.</li> <li>4. ALL DIMENSIONS PERTAINING TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING ANY WORK OR FABRICATION.</li> <li>5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING FEATURES WHICH ARE NOT PART OF THE CONSTRUCTION. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL RESTORE OR REPLACE THE DAMAGED FEATURES TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE AT NO COST.</li> <li>6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.</li> <li>7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.</li> <li>8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.</li> <li>9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.</li> </ol>
<p><b>SITE PLAN:</b> SCALE: 1:1,000</p>	<p><b>QUADRANGLE MAP:</b> SCALE: 1:20,000 Coord. Nad83 X= 193742.5195 Y =232664.6943</p>	

CIVIL PLANS INDEX OF DRAWINGS

C-100	TITLE SHEET & INDEX
C-200	GEOMETRIC PLAN
C-201	GEOMETRIC TABLES
C-300	GRADING PLAN
C-400	UTILITIES PLAN
C-401	UTILITIES DETAILS
C-500	CIVIL DETAILS



NOTE: All designs, analyses and specifications prepared by VISURA CSP and its consultants are copyright of VISURA CSP and shall not be copied or distributed by other parties other than the designers. VISURA CSP has all other rights of the project. All construction shall be in accordance with the applicable codes and regulations.



PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 DRAWING DATE  
 CJO  
 DRAWN / APPROVED

RECORD  
 CONSTRUCTION PHASE  
 PROJECT TITLE

TITLE SHEET & INDEX  
 SHEET TITLE

C-100  
 SHEET NO.



NOTE: All designs, analyses and specifications prepared by VISURA, CSP and its consultants are hereby made available for review and approval by the client. All measurements and dimensions are in meters unless otherwise specified.



PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA

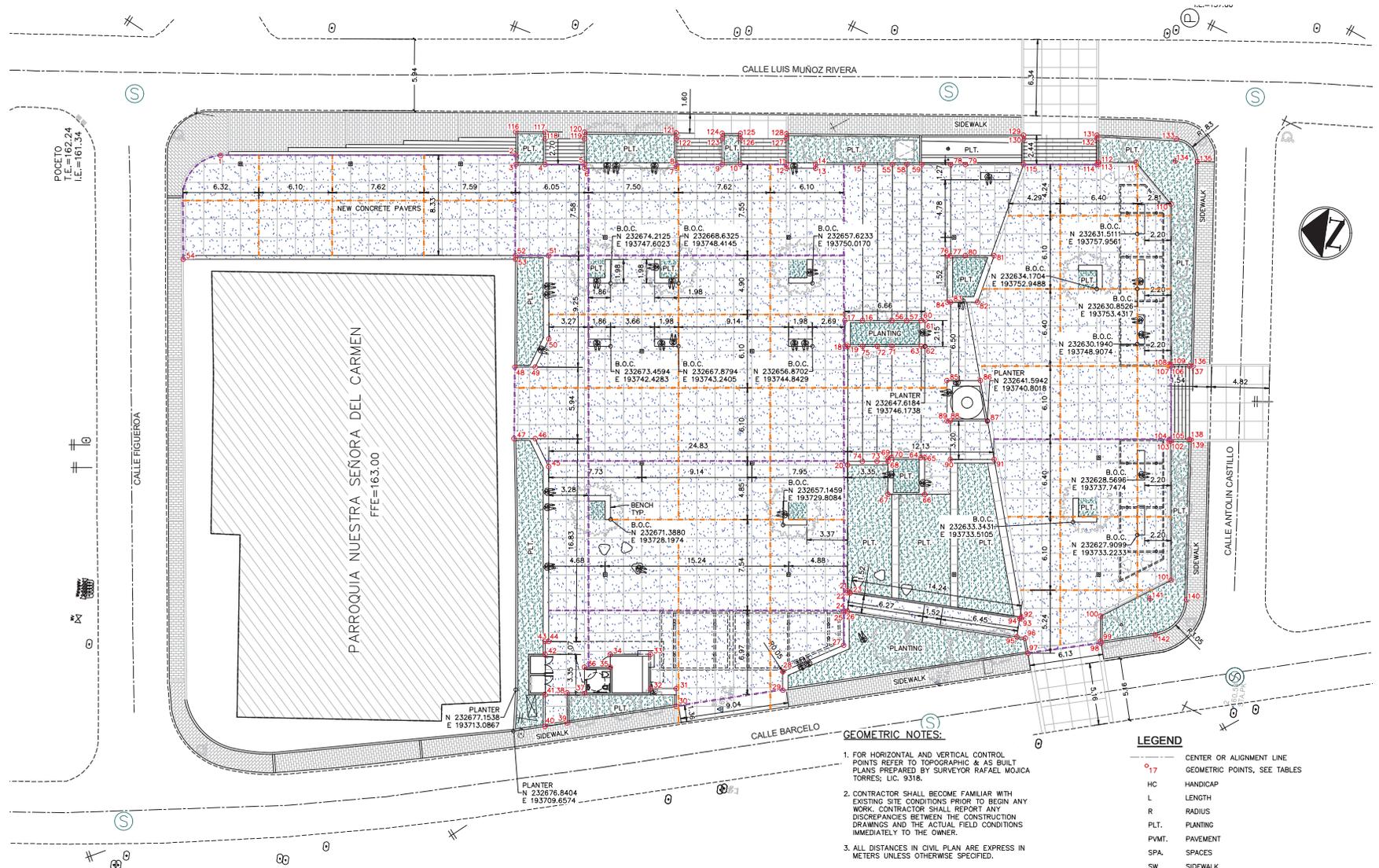
OWNER: 48-2022  
 PROJECT NUMBER: JANUARY 24, 2024  
 DRAWING DATE: C/O

DESIGN / APPROVED

REVISIONS  
 CONSTRUCTION PHASE  
 PROJECT TITLE

GEOMETRIC PLAN  
 SHEET TITLE

C-200  
 SHEET NO.



POCETO  
 T.E.=162.24  
 I.E.=161.34

CALLE FIGUEROA

PARROQUIA NUESTRA SEÑORA DEL CARMEN  
 FFE=163.00

CALLE LUIS MUÑOZ RIVERA

CALLE BARCELÓ

CALLE ANTONIO CASTILLO

SITE IMPROVEMENTS - QUANTITY TABLE			
DESCRIPTION	UNIT	QUANTITY	
CONCRETE FLOOR SLAB SQ.MT.	SQ.MTS.	2,150	

NOTE: REFER TO SHEET C-500 FOR CIVIL DETAILS

**GEOMETRIC PLAN**

SCALE: 1:150

**GEOMETRIC NOTES:**

- FOR HORIZONTAL AND VERTICAL CONTROL POINTS REFER TO TOPOGRAPHIC & AS BUILT PLANS PREPARED BY SURVEYOR RAFAEL MOJICA TORRES; LIC. 9318.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGIN ANY WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL FIELD CONDITIONS IMMEDIATELY TO THE OWNER.
- ALL DISTANCES IN CIVIL PLAN ARE EXPRESS IN METERS UNLESS OTHERWISE SPECIFIED.
- SEE GEOMETRIC POINTS COORDINATES TABLES ON SHEETS C-201.
- CONTRACTOR SHALL REVIEW PLANS WITH COORDINATES CONTROLS AND SHALL REVIEW DIMENSIONS AND SPACES.
- CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
- FOR CONCRETE FLOOR SLAB & JOINT DETAILS REFER TO C-500.

**LEGEND**

- o17 CENTER OR ALIGNMENT LINE
- o17 GEOMETRIC POINTS, SEE TABLES
- HC HANDICAP
- L LENGTH
- R RADIUS
- PLT. PLANTING
- PVMT. PAVEMENT
- SPA. SPACES
- SW SIDEWALK
- W.O.C. WALL OUTER CORNER
- B.O.C. BENCH OUTER CORNER
- EXPANSION JOINT
- CONSTRUCTION JOINT
- PROP. CONC. FLOOR SLAB REFER TO C-500 FOR DETAILS



NOTE: All designs, analyses and specifications prepared by VILURA, C.S.P. and its subsidiaries are hereby certified to be in accordance with the applicable laws and regulations of the Republic of the Dominican Republic. VILURA, C.S.P. has all necessary permits and licenses to practice as a professional engineer in the Dominican Republic.



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CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
1	24.52	S8° 22' 42"E	232707.8016	193753.4217
2	0.78	S81° 43' 06"W	232683.5389	193756.9991
3	2.44	S8° 16' 54"E	232683.4265	193756.2228
4	3.27	S8° 16' 54"E	232681.0134	193756.5741
5	0.30	S81° 43' 06"W	232677.7765	193757.0452
6	7.62	S8° 16' 54"E	232677.7326	193756.7436
7	0.30	N81° 43' 06"E	232670.1920	193757.8412
8	3.81	S8° 16' 54"E	232670.2359	193758.1428
9	1.52	S8° 16' 54"E	232666.4652	193758.6916
10	3.81	S8° 16' 54"E	232664.9571	193758.9112
11	0.30	S81° 43' 06"W	232661.1864	193759.4600
12	2.44	S8° 16' 54"E	232661.1425	193759.1584
13	0.30	N81° 43' 06"E	232658.7295	193759.5096
14	3.92	S8° 16' 54"E	232658.7734	193759.8112
15	12.94	S81° 51' 04"W	232654.8897	193760.3765
16	1.48	N8° 43' 06"W	232653.0551	193747.5645
17	2.13	S81° 43' 06"W	232654.5131	193747.3409
18	0.25	S8° 01' 59"E	232654.2059	193745.2307
19	9.86	S81° 50' 41"W	232653.9544	193745.2662
20	10.44	S81° 51' 22"W	232652.5560	193735.5079

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
21	0.15	N89° 41' 39"W	232651.0767	193725.1704
22	0.25	S0° 18' 21"W	232651.0775	193725.0180
23	1.52	N89° 41' 39"W	232650.8283	193725.0167
24	0.31	N0° 16' 21"E	232650.8364	193723.4927
25	0.15	S81° 43' 06"W	232651.1447	193723.4944
26	2.72	S81° 43' 06"W	232651.1225	193723.3418
27	5.50	N31° 36' 57"W	232650.7305	193720.6490
28	1.55	S81° 22' 29"W	232655.4168	193717.7841
29	8.96	N16° 55' 36"E	232655.1850	193716.2357
30	1.48	N81° 43' 06"E	232663.7564	193713.6272
31	2.13	N8° 16' 54"W	232663.9698	193715.0928
32	2.84	N81° 43' 06"E	232666.0811	193714.7854
33	3.35	N8° 16' 54"W	232666.4909	193717.6006
34	1.07	S81° 43' 06"W	232669.8087	193717.1176
35	2.13	N8° 16' 54"W	232669.6551	193716.0620
36	2.13	S81° 43' 06"W	232671.7664	193715.7546
37	1.45	N8° 16' 54"W	232671.4591	193713.6433
38	2.50	S81° 43' 06"W	232672.8918	193713.4348
39	1.85	N16° 52' 43"W	232672.5322	193710.9645
40	2.62	N81° 43' 06"E	232674.3021	193710.4275

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
41	3.35	N81° 43' 06"E	232674.6796	193713.0205
42	1.07	N81° 43' 06"E	232675.1625	193716.3384
43	0.30	S81° 01' 00"E	232675.3162	193717.3940
44	14.51	N81° 43' 06"E	232675.0145	193717.4379
45	2.59	N55° 57' 42"E	232677.1042	193731.7944
46	1.76	N8° 16' 54"W	232678.5536	193733.9401
47	5.94	N82° 23' 47"E	232680.2941	193733.6868
48	1.69	S8° 16' 54"E	232681.0798	193739.5726
49	2.59	S72° 31' 29"E	232679.4072	193739.8161
50	6.91	N81° 41' 33"E	232678.6286	193742.2891
51	2.77	N7° 55' 23"W	232679.6267	193749.1243
52	0.30	S81° 43' 06"W	232682.3668	193748.7430
53	27.60	N8° 16' 54"W	232682.3229	193748.4414
54	5.25	N81° 16' 30"E	232709.6353	193744.4659

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA CONCRETE STEPS FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
55	12.95	S81° 51' 04"W	232652.4767	193760.7277
56	1.22	S8° 01' 00"E	232650.6413	193747.9101
57	12.95	N81° 51' 04"E	232649.4340	193748.0801
58	1.22	S8° 16' 54"E	232651.2702	193760.9034
59	12.95	S81° 51' 04"W	232650.0637	193761.0790
60	0.30	S8° 16' 52"E	232648.2275	193748.2557
61	2.15	S81° 46' 00"W	232647.9260	193748.2996
62	0.30	N8° 08' 49"W	232647.6184	193746.1738
63	9.24	S81° 51' 04"W	232647.9200	193746.1306
64	0.31	S8° 17' 02"E	232646.6109	193736.9885
65	3.05	S81° 43' 06"W	232646.3058	193737.0329
66	3.05	N8° 17' 02"W	232645.8667	193734.0166
67	2.74	N81° 43' 06"E	232648.8865	193733.5769
68	0.30	N81° 43' 06"E	232649.2818	193736.2925
69	0.30	S8° 17' 02"E	232649.3255	193736.5932
70	9.24	N81° 51' 04"E	232649.0239	193736.6371
71	1.22	N7° 54' 06"W	232650.3338	193745.7850
72	9.55	S81° 51' 04"W	232651.5414	193745.6174
73	1.22	N8° 16' 54"W	232650.1873	193736.1607
74	9.55	N81° 51' 04"E	232651.3938	193735.9851
75	1.65	N74° 36' 47"W	232652.7479	193745.4418

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA LOWER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
76	0.29	S8° 16' 54"E	232646.8767	193753.8913
77	7.57	N81° 43' 06"E	232646.5906	193753.9329
78	1.22	S8° 16' 54"E	232647.6813	193761.4257
79	7.57	S81° 43' 06"W	232646.4748	193761.6014
80	2.40	S8° 16' 54"E	232645.3842	193754.1085
81	4.10	N78° 35' 12"W	232643.0114	193754.4539
82	2.24	N8° 16' 54"W	232643.8223	193750.4370
83	0.29	N8° 16' 54"W	232646.0349	193750.1149
84	6.50	S81° 55' 28"W	232646.3210	193750.0733
85	2.78	S8° 18' 48"E	232645.4072	193743.6335
86	3.40	S71° 46' 59"W	232642.6583	193744.0352
87	3.08	N8° 18' 24"W	232641.5942	193740.8018
88	0.29	N8° 18' 25"W	232644.6372	193740.3575
89	3.22	S76° 32' 29"W	232644.9243	193740.3156
90	3.64	S8° 16' 54"E	232644.1760	193737.1888
91	13.29	S71° 47' 48"W	232640.5782	193737.7124
92	0.15	N89° 41' 39"W	232636.4281	193725.0922
93	0.16	N0° 18' 21"E	232636.4289	193724.9398
94	1.52	N89° 41' 39"W	232636.5864	193724.9407
95	0.72	S0° 18' 21"W	232636.5946	193723.4167

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA LOWER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
96	1.27	S71° 47' 48"W	232635.8758	193723.4129
97	6.11	S16° 08' 31"E	232635.4789	193722.2058
98	0.15	N72° 58' 45"E	232629.6114	193723.9040
99	2.08	N81° 43' 06"E	232629.6560	193724.0495
100	6.57	S35° 16' 46"E	232629.9563	193726.1127
101	11.53	N81° 43' 06"E	232624.5905	193729.9089
102	0.15	N8° 16' 54"W	232626.2513	193741.3190
103	0.15	N81° 43' 06"E	232626.4021	193741.2970
104	0.15	S8° 16' 54"E	232626.4241	193741.4478
105	6.10	N81° 43' 06"E	232626.2733	193741.4698
106	0.15	N8° 16' 54"W	232627.1513	193747.5022
107	0.15	N81° 43' 06"E	232627.3021	193747.4803
108	0.15	S8° 16' 54"E	232627.3241	193747.6311
109	13.29	N81° 43' 06"E	232627.1733	193747.6530
110	4.52	N41° 55' 00"E	232629.0878	193760.8063
111	3.11	N8° 16' 54"W	232632.4538	193763.8281
112	0.18	S81° 43' 06"W	232635.5347	193763.3797
113	0.15	N8° 16' 54"W	232635.5082	193763.1976
114	6.10	N8° 16' 54"W	232635.6590	193763.1757
115	0.65	N39° 54' 37"W	232641.6914	193762.2976

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA SIDEWALK LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
116	2.44	S7° 50' 38"E	232683.6174	193758.9086
117	0.56	S81° 43' 06"W	232681.4016	193759.2414
118	3.27	S8° 16' 54"E	232681.3207	193758.6854
119	0.54	N81° 43' 06"E	232678.0838	193759.1566
120	7.62	S7° 50' 38"E	232678.1611	193759.6879
121	0.48	S81° 43' 06"W	232670.6122	193760.7278
122	3.81	S8° 16' 54"E	232670.5433	193760.2541
123	0.45	N81° 43' 06"E	232666.7725	193760.8030
124	1.52	S7° 50' 38"E	232666.8373	193761.2479
125	0.44	S81° 43' 06"W	232665.3275	193761.4559
126	3.81	N8° 16' 54"E	232665.2644	193761.0225
127	0.41	N81° 43' 06"E	232661.4937	193761.5714
128	19.70	S7° 58' 51"E	232661.5525	193761.9753
129	0.30	S81° 43' 06"W	232642.0427	193764.7106
130	6.10	S8° 16' 54"E	232641.9987	193764.4090
132	6.62	S5° 27' 25"E	232636.0102	193765.5886
131	0.30	N81° 43' 06"E	232635.9663	193765.2870
133	1.83	S84° 32' 35"W	232629.4161	193766.2186
134	1.83	S7° 03' 17"E	232629.2422	193764.3981
135	16.99	S82° 56' 43"W	232627.4272	193764.6227

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA SIDEWALK LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
136	0.31	N8° 16' 54"W	232625.3411	193747.7657
137	6.10	S81° 43' 06"W	232625.6432	193747.7217
138	0.14	S8° 27' 10"E	232624.7652	193741.6893
139	13.30	S83° 16' 04"W	232624.6294	193741.7095
140	3.05	N6° 43' 56"W	232623.0705	193728.5026
141	3.05	S73° 14' 21"W	232626.0974	193728.1453
142	0.53	N77° 59' 06"W	232625.2185	193725.2268

JOSE RAMON FIGUEROA RIVERA  
PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

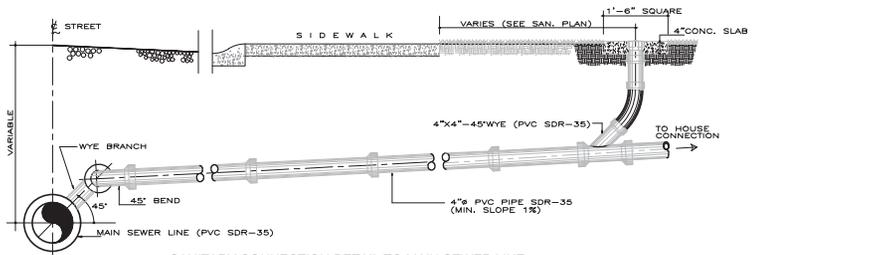
MUNICIPIO VILLALBA  
OWNER  
48-2022  
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JANUARY 24, 2024  
ISSUANCE DATE  
C/O  
DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT TITLE

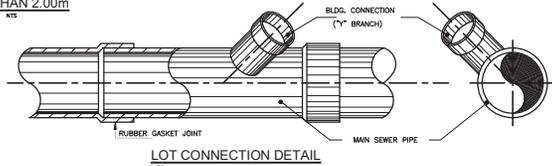
GEOMETRIC TABLES  
SHEET TITLE  
C-201  
SHEET NO.



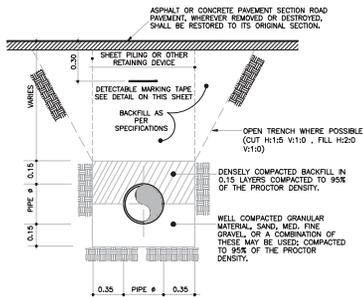




**SANITARY CONNECTION DETAIL TO MAIN SEWER LINE**  
LESS THAN 2.00m  
N.T.S.



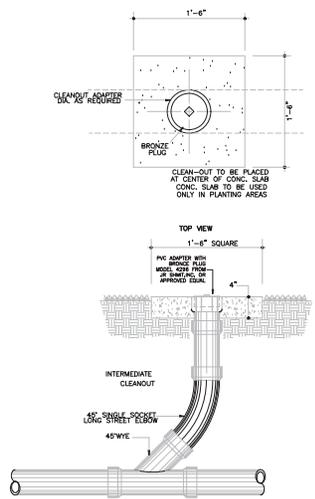
**LOT CONNECTION DETAIL**  
N.T.S.



**SANITARY PIPE TRENCH DETAIL**  
N.T.S.

**NOTES:**

- 1) OPEN TRENCH: SLOPE TO BE DETERMINED BY THE RESIDENT ENGINEER.
- 2) TRENCH PROTECTION: TO BE DETERMINED BY CONTRACTOR TO ENSURE PROTECTION OF ADJACENT STRUCTURES, TRENCH WALLS AND WORKING CREWS INSIDE AND OUT OF TRENCH.
- 3) GROUND OR PAVED SURFACES TO BE REPLACED OR RESTORED IN ACCORDANCE TO DETAILS AND SPECIFICATIONS.
- 4) DETECTABLE MARKING TAPE SEE THE SPECIFICATIONS FOR INSCRIPTIONS.
- 5) CONTRACTOR SHALL BE AWARE FOR THE PRESENCE OF ROCK FRAGMENTS DURING TRENCH EXCAVATIONS.
- 6) THESE PLANS HAVE BEEN PREPARED AS PER P.R.A.S.A. SPECIFICATIONS. IN THE EVENT OF AN OVERSIGHT OR OMISSION, CONTRACTOR SHALL FOLLOW THE DIRECTIVE ISSUED BY P.R.A.S.A. INSPECTOR AND/OR RESIDENT ENGINEER.
- 7) WHEN UTILITY PIPING AND FORCE MAIN CROSS EACH OTHER OR WHEN LAID AT HORIZONTAL DISTANCE OF LESS THAN 1.52m (5ft.) FROM EACH OTHER, FORCE MAIN SHOULD BE INSTALLED AT A HIGHER LEVEL THAN THE UTILITY PIPING AND NO LESS THAN 0.30m (1ft.) BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE SEWER.
- 8) UTILITY CROSSINGS TO BE APPROVED BY RESIDENT ENGINEER AND THE CORRESPONDING AGENCY OR OWNER OF THE UTILITY TO BE CROSSED.
- 9) COMPRESSIVE STRENGTH OF CONCRETE TO BE 4,000 PSI @ 28 DAYS.

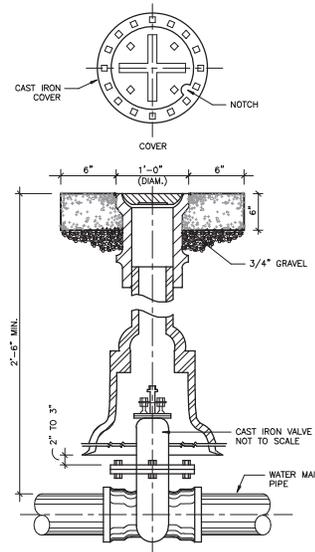


**CLEAN OUT DETAIL**  
N.T.S.

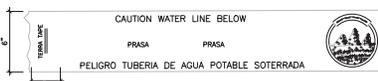


COLOR: GREEN  
MATERIAL: ALUMINUM FOL LAMINATED BETWEEN TWO LAYERS OF INERT PLASTIC FILM  
CUSTOMER: PRASA - SAN JUAN, P.R.  
PRODUCT CODE: 0821556, 0031556  
IMPRINT COLOR: BLACK  
SO: \_\_\_\_\_

**DETECTABLE MARKING TAPE DETAIL FOR SANITARY SEWER PIPE**  
N.T.S.

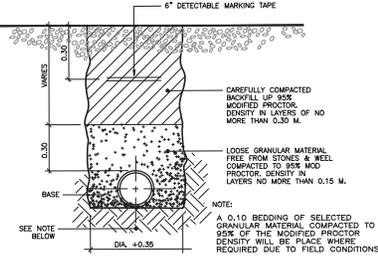


**GATE VALVE BOX DETAIL**  
N.T.S.

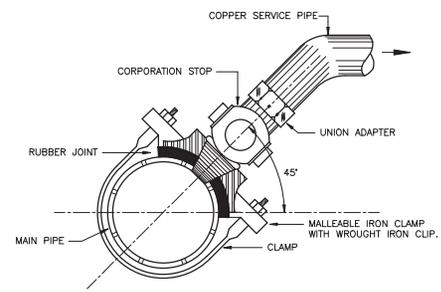


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SO: \_\_\_\_\_

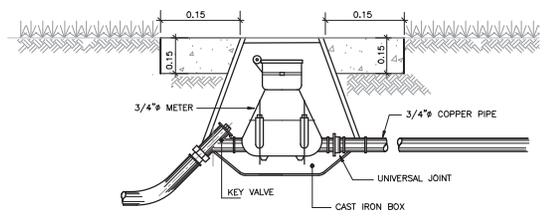
**6" DETECTABLE MARKING TAPE DETAIL FOR WATER LINE**  
N.T.S.



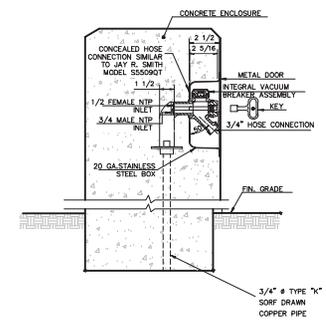
**TRENCH DET. FOR WATER LINE**  
N.T.S.



**TYPICAL DETAIL OF WATER SERVICE CONNECTION WITH CLAMP**  
N.T.S.



**3/4" Ø WATER METER DETAIL**  
N.T.S.



**WALL MOUNTED HOSE BIBB DETAIL**  
N.T.S.



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REG. NO. 10000  
SAN JUAN, P.R. 00909  
www.visura.com

PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
48-2022  
JANUARY 24, 2024  
CJO  
DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT FILE

UTILITIES  
DETAILS  
SHEET TITLE  
C-401  
SHEET NO.



PLANT MATERIAL SELECTION

TREES AND PALMS:



Uvilla (Cd - Coccoloba diversifolia)



Elaeocarpus (Er - Elaeocarpus reticulatus)



Polyalthia (Pl - Polyalthia longifolia)



Retama (Sp - Senna polyphylla)

SHRUBS AND GROUNDCOVERS:



Cafe de la India (Mp - Murraya paniculata)



Frescura (Pim - Pilea microphylla)



Monstera (Md - Monstera deliciosa)



Hemigraphis (Ha - Hemigraphis alternata)



Ginger rojo (Alp - Apilina purpurea)



Cupey (Cl - Clusia rosea)



Jasmin sambac (Js - Jasminum sambac)



Liriope verde gigante (Lm - Liriope muscari 'Evergreen Giant')



Cirsium enano morado (Cam - Cirsium Menchuna)



Cafetaquito mto (Lc - Lantana camara)

PLANTING SCHEDULE:

Type	Code	Latin name	Common name	Spacing	Total	Size
<b>TREES</b>						
Cd	Coccoloba diversifolia	UVILLA/PIGEON PLUM		10	8' / 15 gal / 1.5" cal	
Er	Elaeocarpus	ELEOCAPO TOHARIO		8	6'-7' / 25 gal	
Pl	Polyalthia longifolia	POLIALTHA VERTICAL		4	transplanted	
Sp	Senna polyphylla	RETAMA PRIEN/DESERT CASSIA		3	8' / 15 gal / 1.5" cal	
<b>PALMS</b>						
<b>SHRUBS</b>						
Alp	Alpinia purpurea	GINGER RED		36" oc	43	2 gal
Cam	Cirsium amabile 'Purple'	CRINIUM MURADO		30" oc	20	3 gal
Cl	Clusia rosea	CUPEY DWARF		24" oc	70	2 gal
Js	Jasminum sambac	ARABIAN JASMINE		24" oc	62	2 gal
Lc	Lantana camara	CARAJUILLO VAR. COLOR		24" oc	175	2 gal
Lm	Liriope muscari 'Evergreen Giant'	LIRIOPE GALEIN GIANT		12" oc	48	1 gal
Md	Monstera deliciosa	MONSTERA		36" oc	58	2 gal
Mp	Murraya paniculata	CAFE DE LA INDIA		30" oc	32	3 gal
Pim	Pilea microphylla	FRESCURA		30" oc	119	2 gal
<b>GROUNDCOVERS</b>						
Ha	Hemigraphis alternata	EMIGRAFE / WAFFLE PLANT		24" oc	80	basket
<b>SOD</b>						
Zm	Zoysia matrella 'Manila'	GRAMA ZOYSIA MANILA		1 per sq.ft.	1301	Carpet
<b>VINES</b>						
<b>OTHERS</b>						
Mu	Mulch**	Mulch 2" depth		2" depth	14	m3
	Fertilizer <sup>1</sup>	Fertilizer			4	100 lb bag
	Top soil <sup>2</sup>	Top soil shrubs and groundcovers 6" depth		6" depth	47	m3
	Top soil <sup>2</sup>	Top soil sod 4" depth		4" depth	12	m3
	Root control <sup>3</sup>	Root control			140	gals.
	Tree trunk base protector	Tree guard or similar			25	
	Tree staking and guying	Tree staking and guying		unit	13	Set
	Tree Transplanting	Tree Transplanting (ARBOL DE HIERRO)			4	

- \*NOTES
- Areas covered in river stone should be installed over a double layer of weed control fabric.
  - Top soil, mulch, and fertilizer quantities have been estimated and may vary depending on site conditions and project necessities. Contractor must re calculate.
  - Root control barrier (as specified on planting details page) must be used whenever trees or palms are enclosed by pavement on all sides (see Landscape plan). Contractor must identify, estimate, and quote root barrier.



REV. NO.	DATE	DESCRIPTION

LANDSCAPE DESIGN  
 PLAZA PUBLICA DE VILLALBA  
 JOSE MANON FIGUEROA RIVERA  
 VILLALBA, Puerto Rico

FINAL  
 LANDSCAPE DESIGN



PLANT MATERIAL

DESIGNED BY	DATE
CREATED BY	
FILE NAME	
PLOT SCALE	
not to scale	
SHEET REFERENCE NUMBER	
LS-102	
SHEET No. 02 OF 03	



**GRAPHIC LEGEND**

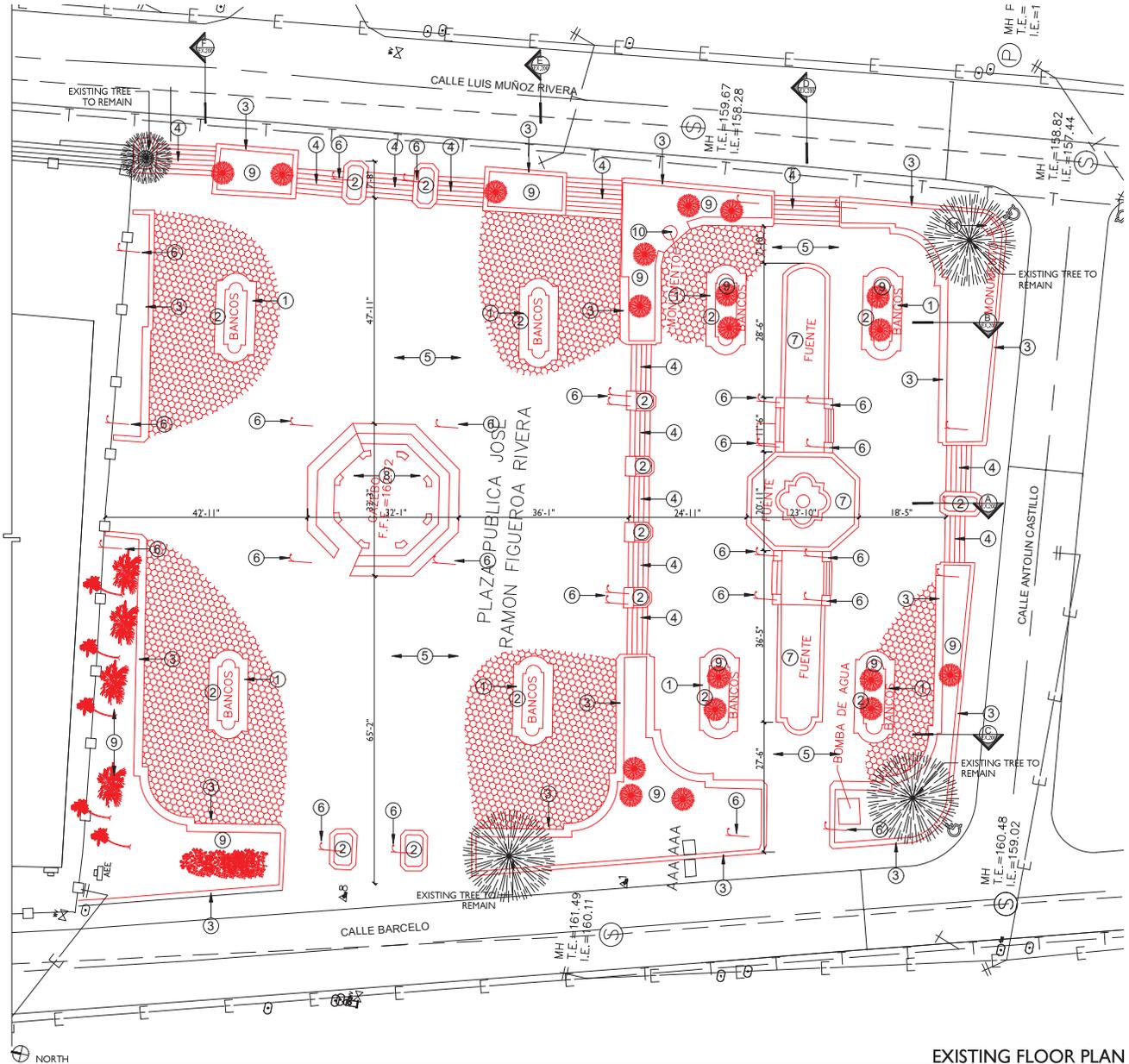
-  EXISTING STRUCTURE
-  DEMOLITION
-  FLOOR LEVEL CHANGE

**TO BE REMOVED OR DEMOLISHED**

- ① CONCRETE BENCH
- ② PLANTING BOX
- ③ CONCRETE WALL OR LOW WALL
- ④ PRECAST CONCRETE STEPS
- ⑤ CONCRETE PAVERS
- ⑥ LIGHT POLES
- ⑦ FOUNTAIN
- ⑧ GAZEBO (FLOOR, STRUCTURE, ROOF, STEEL ELEMENTS)
- ⑨ EXISTING TREES OR VEGETATION
- ⑩ JOSE RAMON FIGUEROA BUST
- ⑪ AGUSTIN BURGOS BUST

**NOTES**

1. CONTRACTOR IS RESPONSIBLE TO KNOW THE PROJECT CONTENTS.
2. CONTRACTOR IS RESPONSIBLE TO REVISE THE EXISTING STRUCTURE INCLUDING FLOOR SLAB, WALLS, CEILING AND SLOPE OF THE AREAS BEFORE BEGINNING EXISTING WORK.
3. CONTRACTOR IS RESPONSIBLE TO NOTIFY ANY DISCREPANCY BETWEEN THE EXISTING PLAN, THE PROPOSED PLAN AND EXISTING CONDITION PLAN. CONTRACTOR MUST NOTIFY IN WRITING TO THE DESIGNER AND OWNER BEFORE BEGINNING OF THE WORK.
4. ALL NEW CUTS ON EXISTING CONCRETE SURFACE MUST BE DONE CAREFULLY WITH A SAW CUT AND PROPER DISC.
5. THE CONTRACTOR SHALL REPAIR AND LEVEL ALL SURFACES ON FLOOR BEFORE INSTALLING FINISHES AND/OR EQUIPMENTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PROJECT WORK SPACE CLEAN DURING AND AFTER CULMINATING EXISTING WORK, AND CURRENTLY ON THE CONSTRUCTION OF THE PROJECT.
7. REMOVE ALL TYPE OF INFRASTRUCTURE NECESSARY FOR THE NEW CONSTRUCTION.
8. PROVIDE CAPS FOR SEALING ALL EXISTING REMAINING PIPES THAT ARE NOT PART OF THE PROJECT.
9. REMOVE ALL PAVERS 2" APPROX. AT PLAZA LEVEL. REMOVE UNKNOWN SURFACE BELOW EXISTING PLAZA PAVERS. PREPARE FOR NEW CONCRETE TOPPING AS INDICATED ON PLANS. CONCRETE TOPPING MUST BE LEVELLED FOR NEW PAVERS FINISH INSTALLATION.
10. REMOVE ALL PAVERS ON SIDEWALK THAT SURROUND THE CATHEDRAL AND PLAZA. PREPARE & LEVEL SURFACE FOR NEW PAVEMENT INSTALLATION AS INDICATED ON PLANS.
11. EXISTING FOUNTAIN AREA TO BE DEMOLISHED. FILL AND COMPACT WELL WITH SOIL AS INDICATED ON PLANS.
12. ALL DATA PRESENTED HERE WERE PROVIDED BY SURVEY AND TOPOGRAPHY TAKEN ON SITE AS EXISTING CONDITIONS. ANY DISCREPANCIES SHOULD BE CLARIFY WITH DESIGNER, OWNER AND GENERAL CONTRACTOR BEFORE ANY WORK TO BE DONE.
13. CONTRACTOR SHOULD REVISED ALL EXISTING LEVELS BEFORE CONSTRUCTION OF NEW FOUNDATIONS, FLOOR, RAMP, LOW WALLS, SWALES, CURBS, SIDEWALKS AND PLANTING AREAS. FOR THE NEW RENOVATION ALL LEVELS SHOULD REMAIN SIMILAR TO EXISTING.
14. GENERAL CONTRACTOR SHOULD REVISED EXISTING STORM WATER DISCHARGES BEFORE DETERMINED NEW LEVELS OF SURFACES, PLANTINGS AND CATCH BASIN.
15. EXISTING CATCH BASING, ELECTRICAL JUNCTION BOXES, DATA CHASES AND OTHER UNDERGROUND CHASES ARE UNKNOWN AND ANY SUDDEN CONDITION FOUND ON SITE SHOULD BE EVALUATED WITH OWNER, DESIGNER AND SPECIALIST BEFORE ANY FINAL DESIGN.
16. ALL EQUIPMENT, FURNITURE AND LIGHTING FIXTURES IN GOOD CONDITION SHOULD BE RETURNED TO OWNER.
17. EXISTING TREES, PLANTS AND SHRUBS THAT ARE TO BE REMOVED SHOULD BE COORDINATED WITH LANDSCAPE DESIGN AND SPECIALIST RECOMMENDATIONS.
18. MAIN UTILITIES AND INFRASTRUCTURE SHOULD FOLLOW RECOMMENDATIONS SUBMITTED BY AGENCIES AND ANY DISCREPANCY WILL BE CONSULTED WITH SPECIALIST AND OWNER.



**EXISTING FLOOR PLAN**  
SCALE 3/32" = 1'-0"



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**DEFINICIONES:**  
 1. CATEGORÍA QUINQUAGESIMO PRIMER PROYECTO DE RENOVACIÓN DE LA PLAZA RAMÓN FIGUEROA EN PUERTO RICO. Este proyecto tiene como objetivo mejorar el espacio público y proporcionar un entorno agradable para los ciudadanos. También incluye la instalación de nuevas estructuras y mobiliario urbano que mejorará la estética y la funcionalidad del espacio público. Este proyecto es parte de un programa más amplio de renovación urbana en el municipio de Villalba, Puerto Rico. El proyecto será ejecutado por el Municipio de Villalba, Puerto Rico, a través de su Departamento de Obras Públicas. El proyecto será financiado por el presupuesto municipal y los recursos de los contribuyentes de Villalba, Puerto Rico. El proyecto será supervisado por el ingeniero profesional responsable de este proyecto.

**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 26, 2024 CONTRACT DATE  
 C10 CONTRACT NUMBER

REVISION  
 CONSTRUCTION PHASE  
 PROJECT TITLE

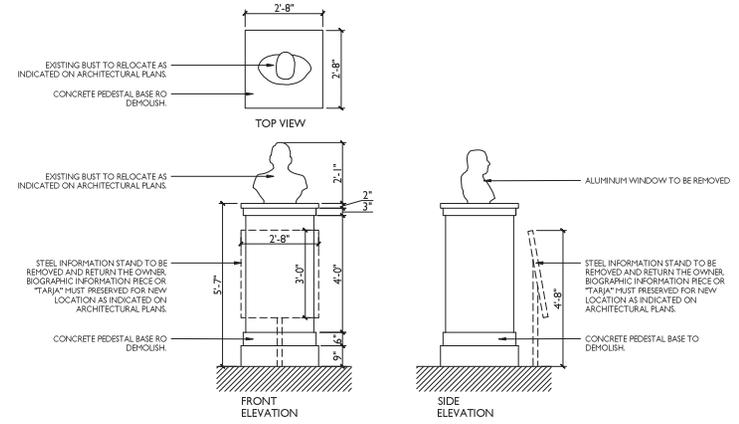
DEMOLITION PLAN  
 SHEET NO.  
**EX-100** SHEET NO.







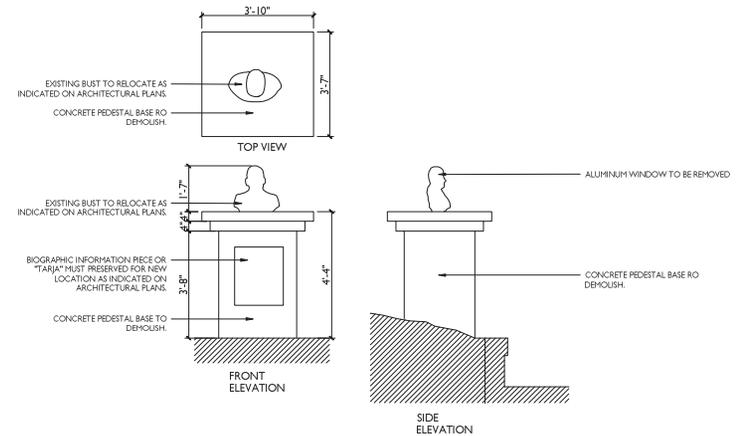
EXISTING BUST JOSE RAMON FIGUEROA RIVERA  
REFERENCE PHOTOS



EXISTING BUST JOSE RAMON FIGUEROA RIVERA  
SCALE 1/2" = 1'-0"



EXISTING BUST AGUSTIN BURGOS  
REFERENCE PHOTOS



EXISTING BUST AGUSTIN BURGOS  
SCALE 1/2" = 1'-0"



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CERTIFICACION:  
Yo, CARLOS J. QUIROGA, ingeniero profesional en arquitectura, certifico que los planos de arquitectura que se adjuntan a este expediente de licitación, fueron elaborados por mí o por un profesional que se encuentra bajo mi supervisión y control. Asimismo, certifico que los planos de arquitectura que se adjuntan a este expediente de licitación, fueron elaborados por mí o por un profesional que se encuentra bajo mi supervisión y control. Asimismo, certifico que los planos de arquitectura que se adjuntan a este expediente de licitación, fueron elaborados por mí o por un profesional que se encuentra bajo mi supervisión y control. Asimismo, certifico que los planos de arquitectura que se adjuntan a este expediente de licitación, fueron elaborados por mí o por un profesional que se encuentra bajo mi supervisión y control.

**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

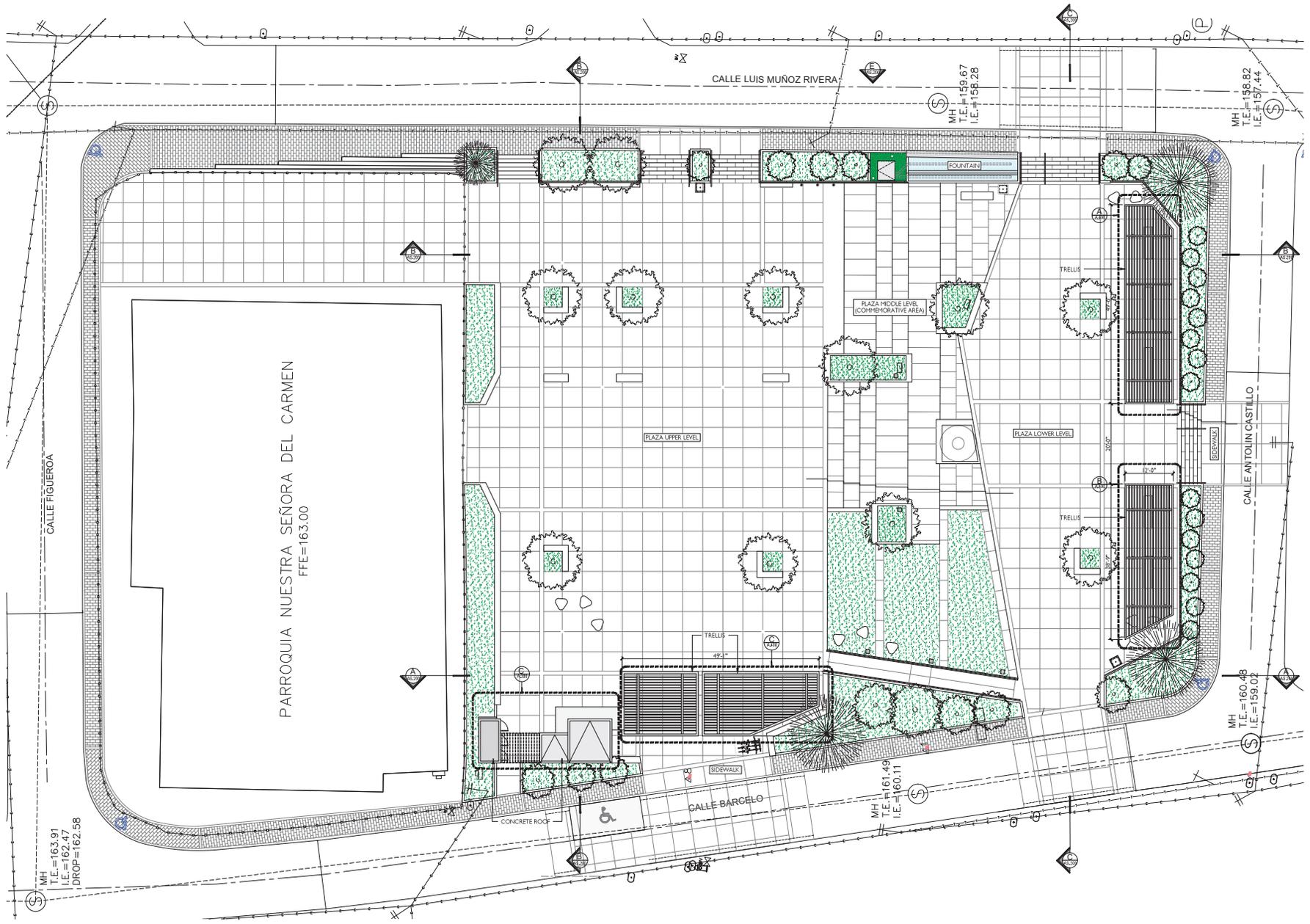
MUNICIPIO VILLALBA  
OWNER: 48-2022  
PROJECT NUMBER: JANUARY 26, 2024  
PREPARED BY: CIQ  
CHECKED BY: [Signature]

REVISION  
CONSTRUCTION PHASE PROJECTS

DEMOLITION PLAN SHEET TITLE

EX-300 SHEET NO.





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**CERTIFICACION:**  
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**BID SET**

**JOSE RAMON FIGUEROA  
 RIVERA PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
 48-2022  
 PROJECT NUMBER  
 JANUARY 26, 2024  
 REVISIONS  
 C/CJ  
 CHECKED/ISSUED

REVISION  
 CONSTRUCTION PHASE  
 SUBJECT

PROPOSED PLAZA  
 ROOF PLAN  
 SHEET TITLE

AS-110  
 SHEET NO.

**PROPOSED PLAZA ROOF PLAN**  
 SCALE 3/32" = 1'-0"



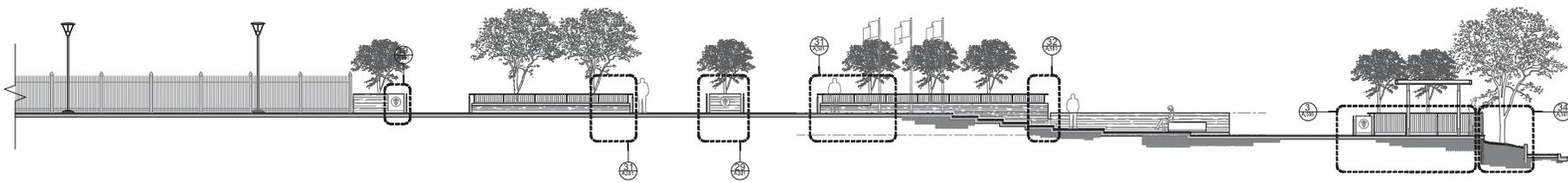




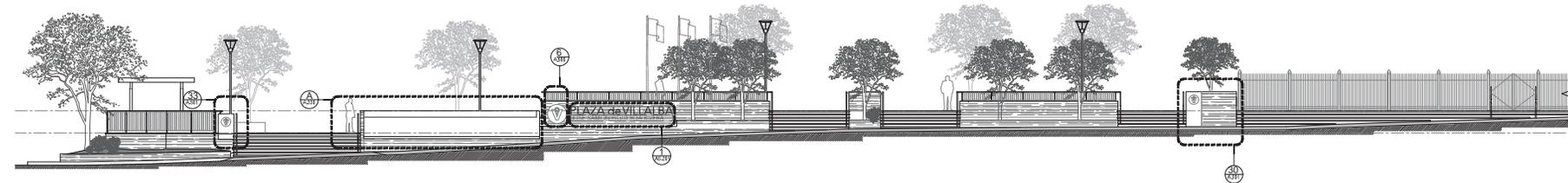
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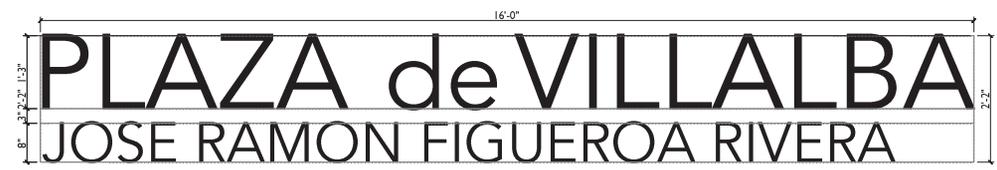
PROFESSIONAL CONSULTANT



PROPOSED PLAZA WEST ELEVATION - B  
SCALE 1/8" = 1'-0"



PROPOSED PLAZA EAST ELEVATION - A  
SCALE 1/8" = 1'-0"



NEW PLAZA DE VILLALBA SIGN - I  
SCALE 1" = 1'-0"

- NOTES:
- LETTERING: HELVETICA
  - STYLE: LETTER CHANNEL BOX CONSTRUCTION
  - ALL LETTERS ARE TO BE ANCHORED ON THE CONCRETE WALL
  - LED SELF CONTAINED POWER SUPPLY MOUNTED INSIDE OF LETTERS
  - WHITE LED MODULES
  - PRIMARY ELECTRICAL LEADS, POWER TO LETTERS TO BE SUPPLIED BY OTHERS
  - SIGN SHOP DRAWING WILL BE SUPPLIED BY A SIGN FABRICATION COMPANY, FINAL DESIGN TO BE COORDINATED WITH OWNER.

**BID SET**

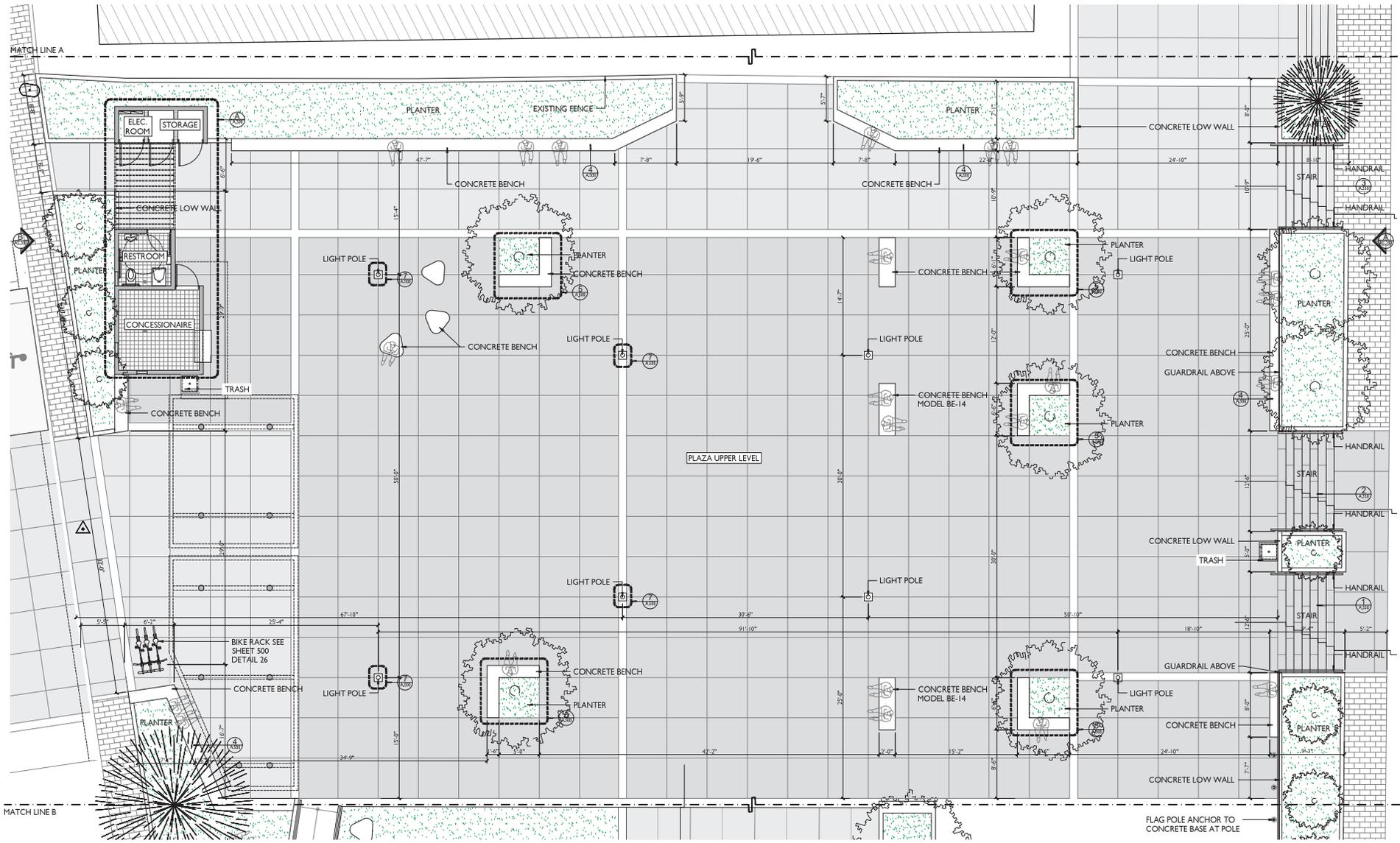
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
**CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
 48-2022  
 JANUARY 26, 2024  
 CIQ

CONSTRUCTION PHASE

PROPOSED PLAZA ELEVATIONS

AS-201



**PROPOSED UPPER LEVEL PLAZA FLOOR PLAN**  
SCALE 3/16" = 1'-0"



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**PROFESSIONAL CONSULTANT**

**EDIFICACION:**

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**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
**CALE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
ISSUE DATE  
CIC  
DESIGN APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT NOTES

ENLARGE PLAZA  
UPPER LEVEL  
FLOOR PLAN  
SHEET TITLE

A-100  
SHEET NO.

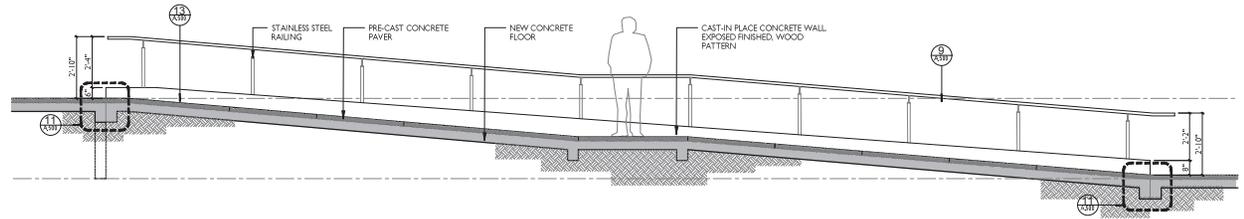




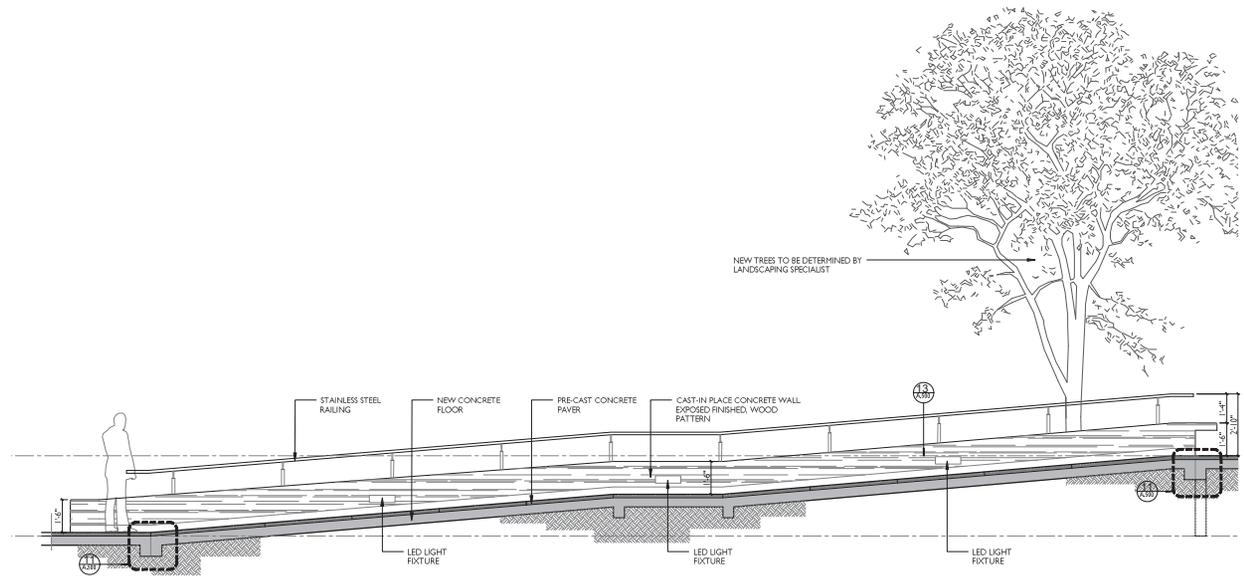
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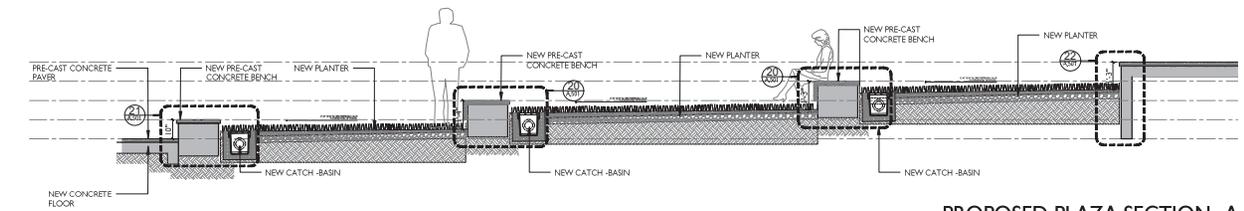
**CERTIFICACION:**  
 Yo, CARLOS QUIÑONES MORA, Profesional de Ingeniería Civil, certifico que los planos y especificaciones de este proyecto han sido elaborados por mí o por un profesional que actúe bajo mi supervisión y control. También certifico que entiendo que estos planos y especificaciones han sido elaborados en cumplimiento de la Ley de Ejercicio de la Profesión de Ingeniero Civil y de la Ley de Ejercicio de la Profesión de Arquitecto, Leyes Reglamentarias y Complementarias de las mismas.  
 Asimismo, que cualquier alteración hecha a cualquiera de los planos que se han elaborado en un momento determinado de este proyecto, es responsabilidad de quien la realice, y no de este profesional. Asimismo, que cualquier modificación hecha a los planos, especificaciones o dibujos, es responsabilidad de quien la realice, y no de este profesional. Asimismo, que cualquier modificación hecha a los planos, especificaciones o dibujos, es responsabilidad de quien la realice, y no de este profesional.



PROPOSED PLAZA SECTION ADA RAMP- C  
 SCALE 1/2" = 1'-0"



PROPOSED PLAZA SECTION ADA RAMP- B  
 SCALE 1/2" = 1'-0"



PROPOSED PLAZA SECTION- A  
 SCALE 1/2" = 1'-0"

**BID SET**

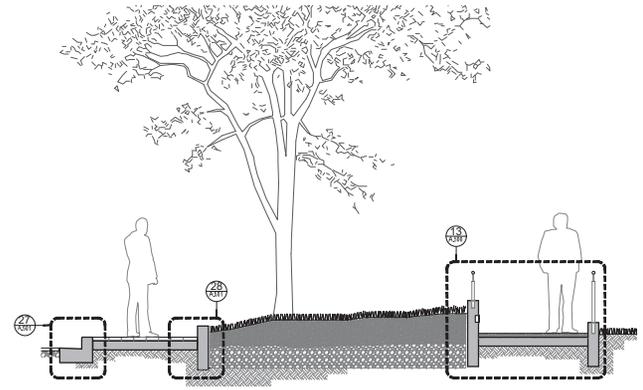
**JOSE RAMON FIGUEROA  
 RIVERA PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 26, 2024  
 REVISION DATE  
 CIQ  
 DESIGN APPROVED

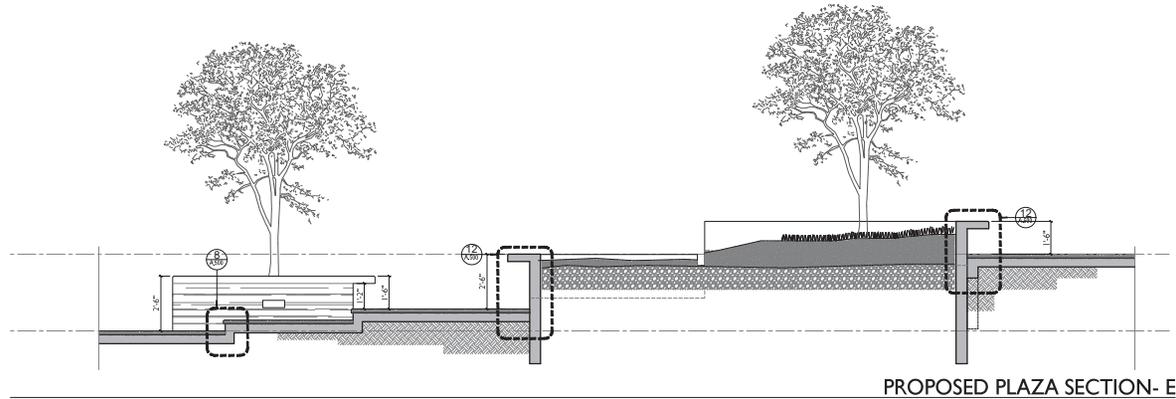
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 PROJECTS

SITE SECTIONS  
 SHEET TITLE

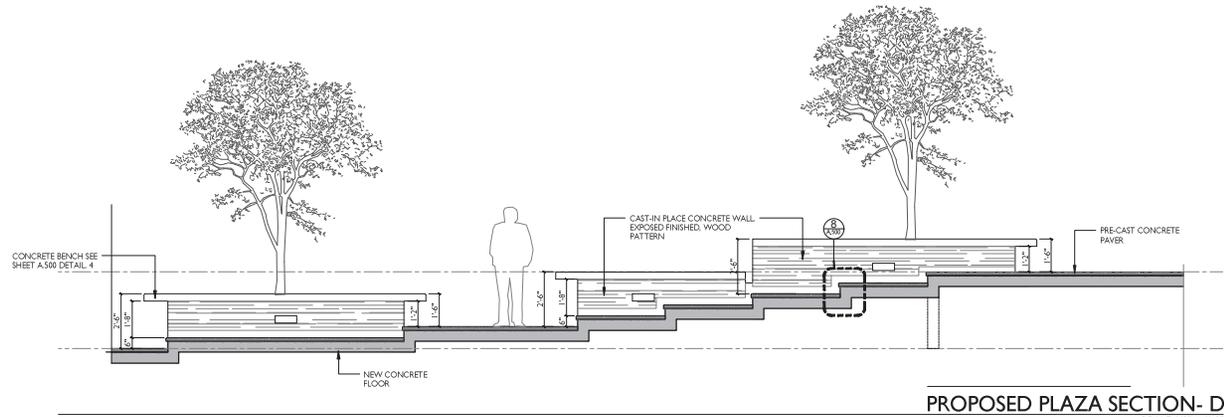
A-200  
 SHEET NO.



**PROPOSED PLAZA SECTION-F**  
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**PROPOSED PLAZA SECTION-E**  
SCALE 1/2" = 1'-0"



**PROPOSED PLAZA SECTION-D**  
SCALE 1/2" = 1'-0"



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**CERTIFICACION:**  
Yo, CARLOS QUIROCHE, ingeniero profesional, certifico que los planos y especificaciones de este proyecto de obra civil, fueron elaborados por mí o bajo mi supervisión directa. Asimismo, certifico que he cumplido con los requisitos establecidos en el Reglamento General de Ejercicio de la Profesión de Ingeniero Civil en el Estado Libre Asociado de Puerto Rico, y que he cumplido con los requisitos establecidos en el Reglamento General de Ejercicio de la Profesión de Ingeniero Civil en el Estado Libre Asociado de Puerto Rico. Asimismo, certifico que he cumplido con los requisitos establecidos en el Reglamento General de Ejercicio de la Profesión de Ingeniero Civil en el Estado Libre Asociado de Puerto Rico. Asimismo, certifico que he cumplido con los requisitos establecidos en el Reglamento General de Ejercicio de la Profesión de Ingeniero Civil en el Estado Libre Asociado de Puerto Rico.

**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
**CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
REVISION DATE  
CIQ  
DESIGN APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT

SITE SECTIONS  
SHEET NO.  
A-201  
SHEET NO.





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CERTIFICACION  
PROFESIONAL CONSULTANT

**CERTIFICACION**  
El Sr. CARLOS QUIROGA MORA, Profesional Registrado Nº 1000, con firma electrónica, ha emitido este certificado. También certifica que el presente es un documento original emitido por el Profesional Registrado Carlos Quiroga Mora en su calidad de Profesional Registrado en la Ingeniería Civil de la Agencia para el Registro Profesional y el Compromiso Público con el Ciudadano.  
Reservados los derechos de todos los derechos de los hechos que se han producido en un período de tiempo y/o en un momento determinado, no siendo responsable de cualquier actualización de este documento por el profesional que se ha emitido en la presente. Este documento es confidencial y no debe ser divulgado sin el consentimiento del profesional que lo emitió.

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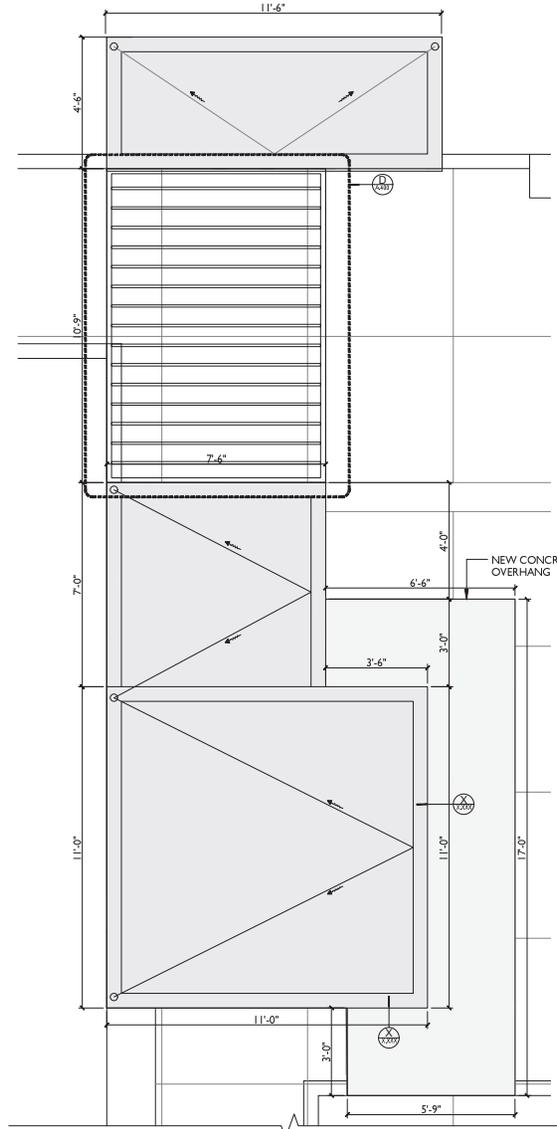
**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 REVISION NUMBER  
CICQ DESIGN APPROVED

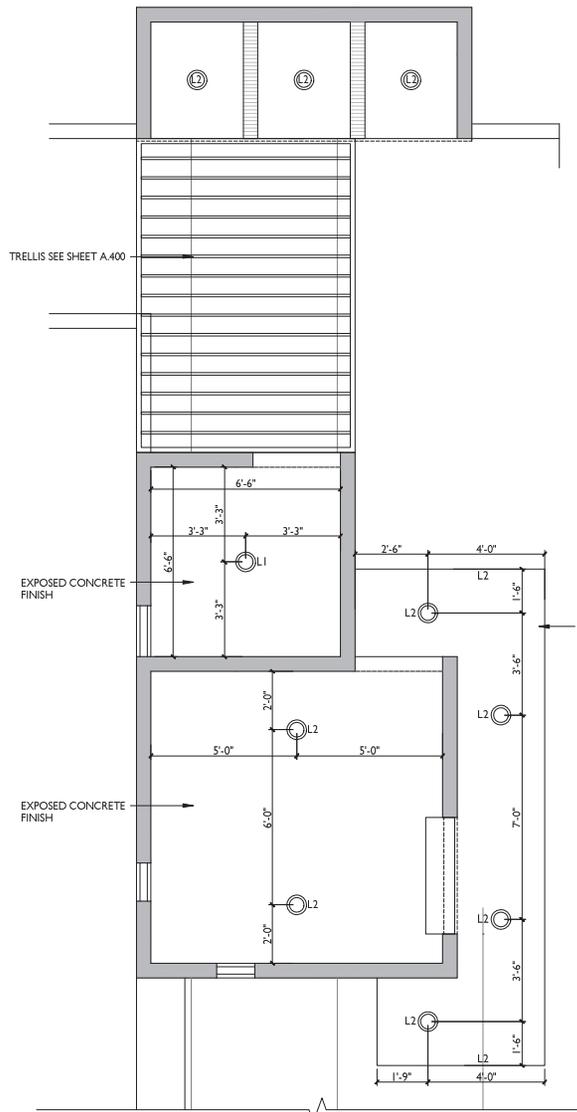
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CONCESSIONAIRE FLOOR PLAN  
SHEET TITLE

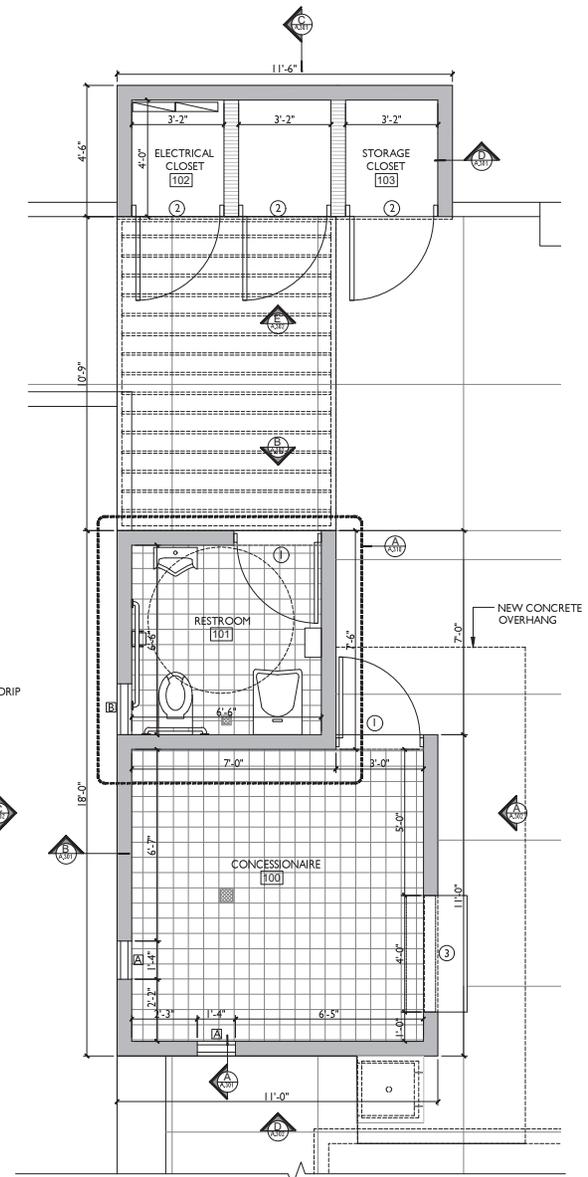
A-300 SHEET NO.



CONCESSIONAIRE ROOF PLAN - C  
SCALE 1/2" = 1'-0"



CONCESSIONAIRE REFLECTED CEILING PLAN - B  
SCALE 1/2" = 1'-0"



CONCESSIONAIRE FLOOR PLAN - A  
SCALE 1/2" = 1'-0"



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**CERTIFICACION:**  
 Yo, CARLOS J. GUIBON MORENO, Ingeniero Profesional No. 10000, certifico que los planos de este proyecto cumplen con los requisitos de la Ley de Ordenamiento Urbanístico y del Reglamento de Construcción de Edificios y Obras de Ingeniería Civil de la Ley No. 173 de 1998, y que el proyecto cumple con los requisitos de la Ley de Ordenamiento Urbanístico y del Reglamento de Construcción de Edificios y Obras de Ingeniería Civil de la Ley No. 173 de 1998, y que el proyecto cumple con los requisitos de la Ley de Ordenamiento Urbanístico y del Reglamento de Construcción de Edificios y Obras de Ingeniería Civil de la Ley No. 173 de 1998.

**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
 1 JANUARY 26, 2024  
 CIQ

OWNER  
 PROJECT NUMBER  
 REVISIONS  
 CHECKED/DATE

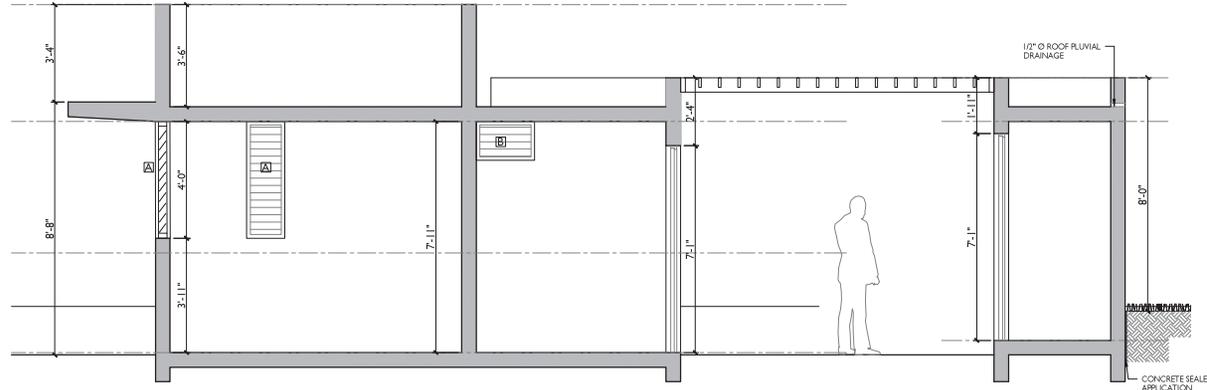
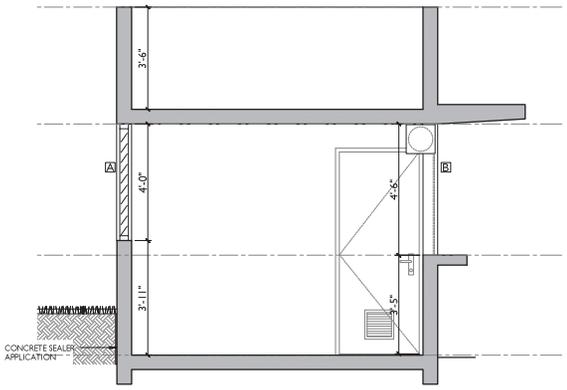
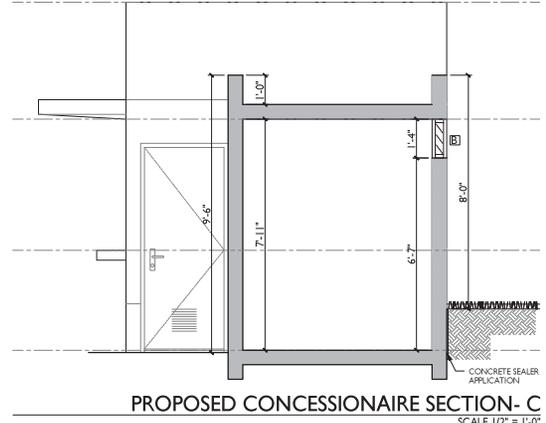
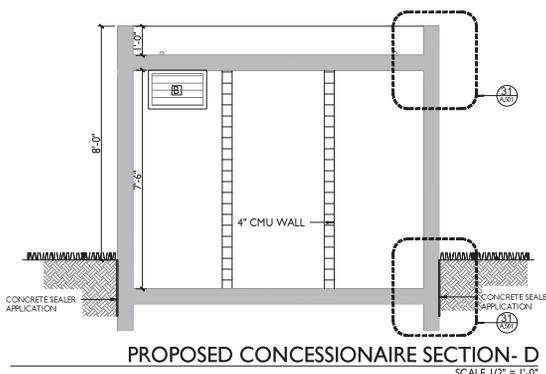
REVISION  
 CONSTRUCTION PHASE  
 PROJECTS

CONCESSIONAIRE SECTION  
 SHEET TITLE

A-301  
 SHEET NO.

**FLOOR FINISH LEGEND:**

1. EXPOSED CONCRETE FINISH
2. SMOOTH CEMENT PLASTER & PAINT FINISH
3. 1/2" RECESSED WALL BASE POLISH CEMENT FINISH
4. FLOOR PAVER FINISH
5. CONCRETE CEMENT TOP POLISH CEMENT FINISH
6. PLANTER AREA
7. TRELLIS SEE SHEET
8. METAL DOOR AS PER SHEET











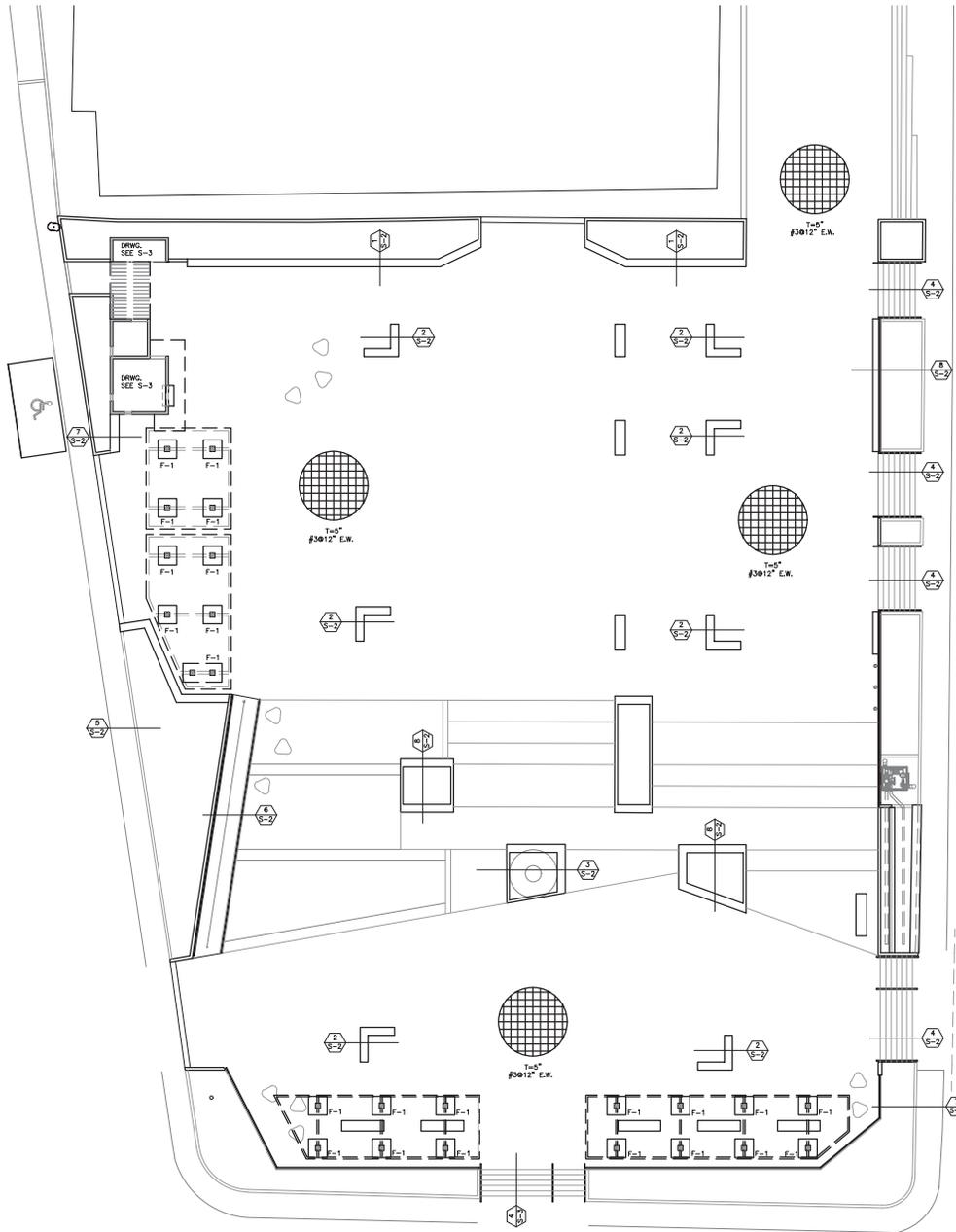












LOWER LEVEL PLAZA FOUNDATIONL PLAN

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



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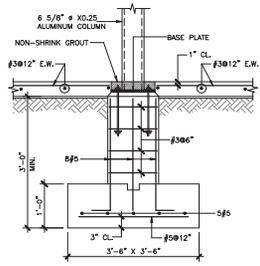
PROFESSIONAL / CONSULTANT

JOSE RAMON FIGUEROA RIVERA  
 PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

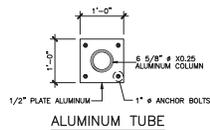
MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 PROJECT DATE  
 C.J.O.  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 LOWER LEVEL  
 PLAZA  
 FOUNDATIONL  
 PLAN

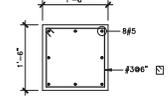
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 S-1  
 SHEET NO.



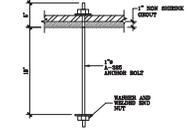
FOOTING MK'D.F-1  
SCALE 3/4"=1'-0"



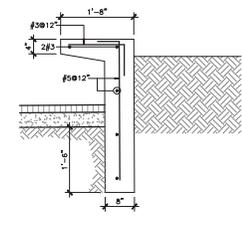
ALUMINUM TUBE  
BASE PLATE  
SCALE 3/4"=1'-0"



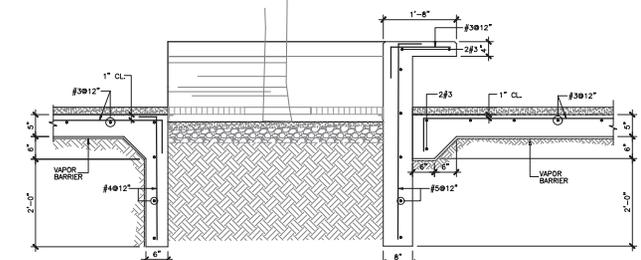
PEDESTAL DETAIL  
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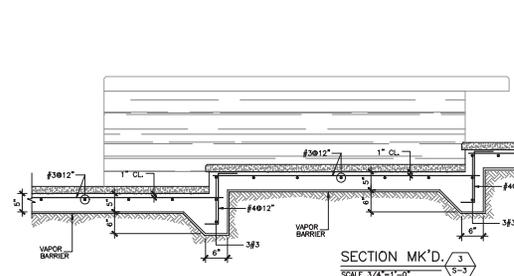
ANCHOR BOLT DETAIL  
N.T.S.



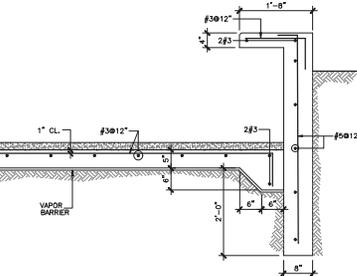
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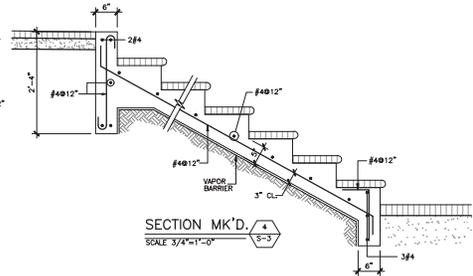
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SCALE 3/4"=1'-0"



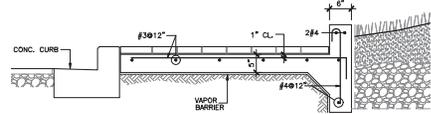
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SCALE 3/4"=1'-0"



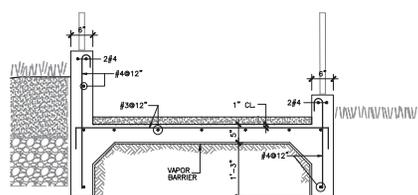
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SCALE 3/4"=1'-0"



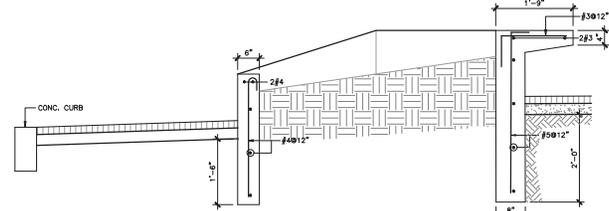
SECTION MK'D. 5  
SCALE 3/4"=1'-0"



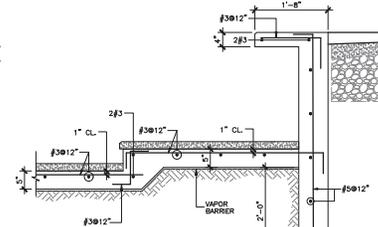
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SCALE 3/4"=1'-0"



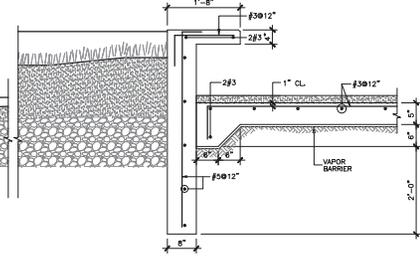
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SCALE 3/4"=1'-0"



SECTION MK'D. 8  
SCALE 3/4"=1'-0"



SECTION MK'D. 9  
SCALE 3/4"=1'-0"



SECTION MK'D. 10  
SCALE 3/4"=1'-0"



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PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

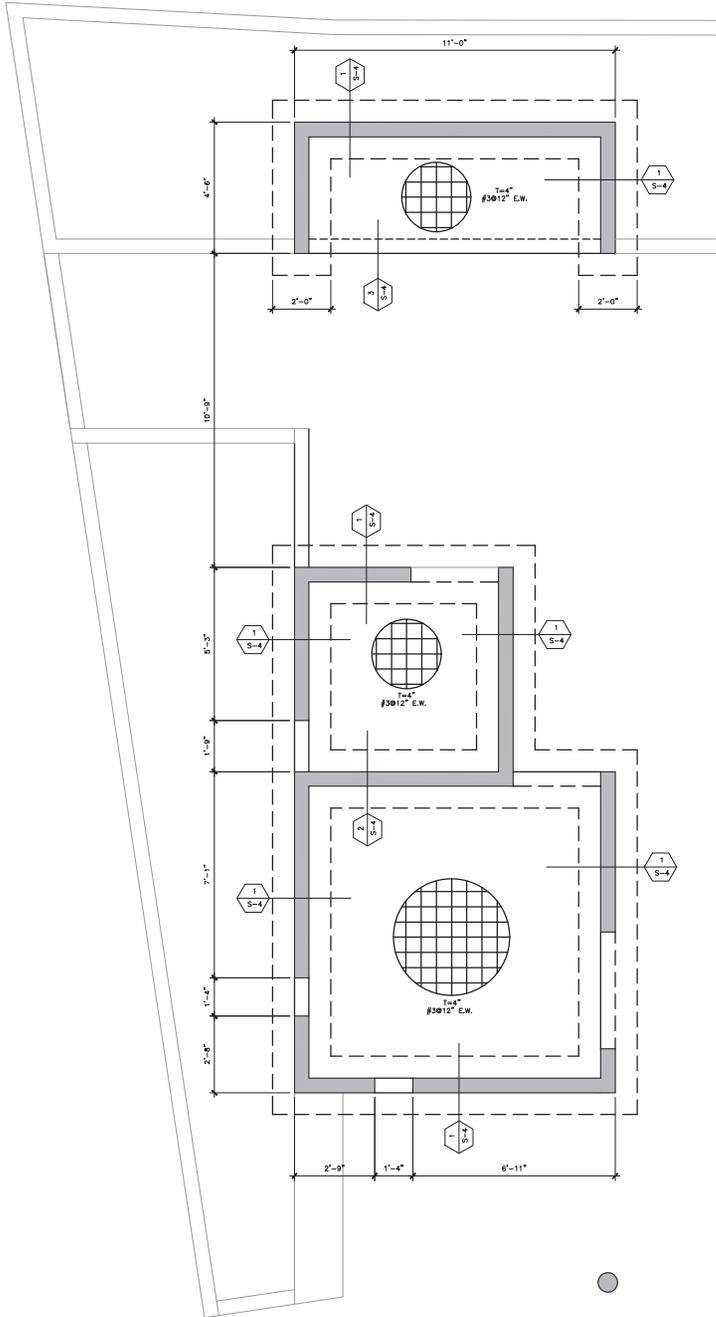
MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 24, 2024  
ISSUING DATE  
C.U.J.  
DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT FILE

SECTIONS

SHEET TITLE

S-2  
SHEET NO.



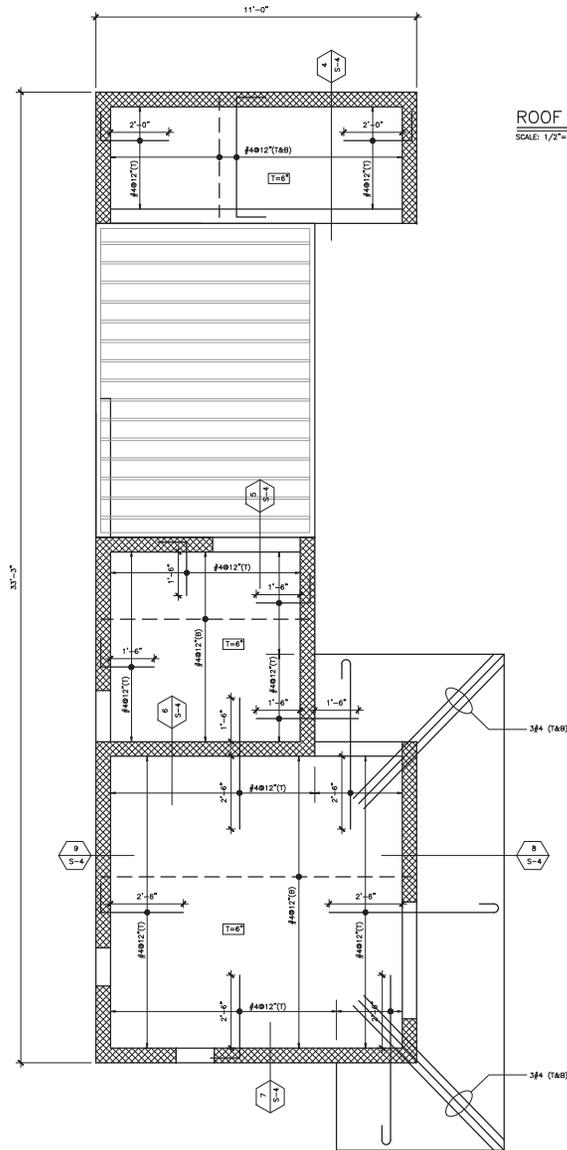
**FOUNDATION PLAN**

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

NOTES:  
1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS

LEGEND:

- DENOTES WALL BELOW ONLY
- DENOTES WALL ABOVE ONLY
- DENOTES WALL BELOW AND ABOVE ONLY
- B** BOTTOM REINFORCEMENT
- T** TOP REINFORCEMENT
- E.W.** EACH WAY



**ROOF STRUCTURAL PLAN**

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



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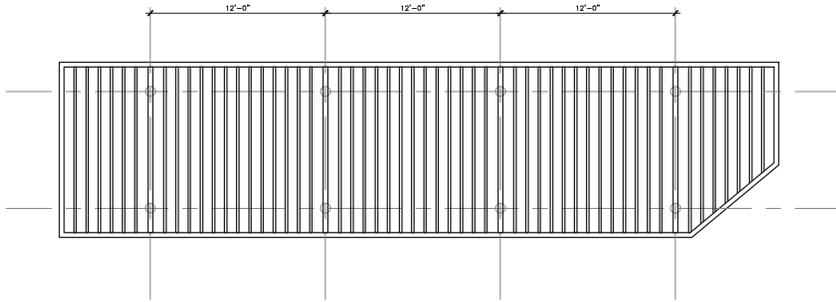
**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 PRINTING DATE  
 C.J.O.  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE  
 FOUNDATION AND ROOF STRUCTURAL PLAN

SHEET TITLE  
**S-3**  
 SHEET NO.



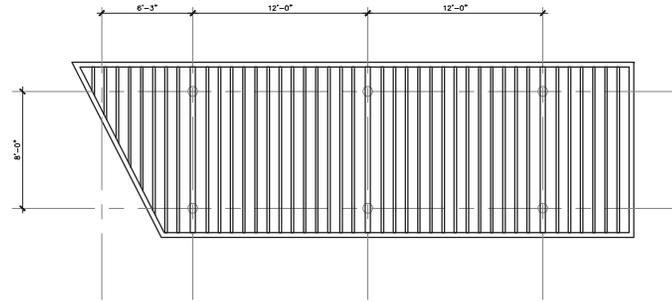


**TRELLIS- A ROOF STRUCTURAL PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.

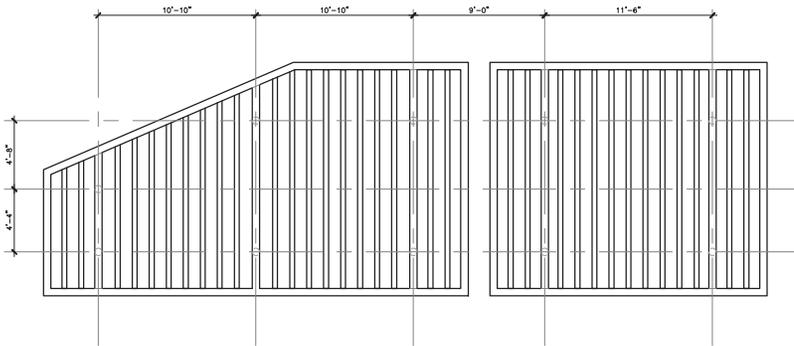


**TRELLIS- B ROOF STRUCTURAL PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.



**TRELLIS- C ROOF STRUCTURAL PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.



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PROFESSIONAL / CONSULTANT

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 PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA

OWNER

48-2022

PROJECT NUMBER

JANUARY 24, 2024

ISSUING DATE

CJQ

DESIGN / APPROVAL

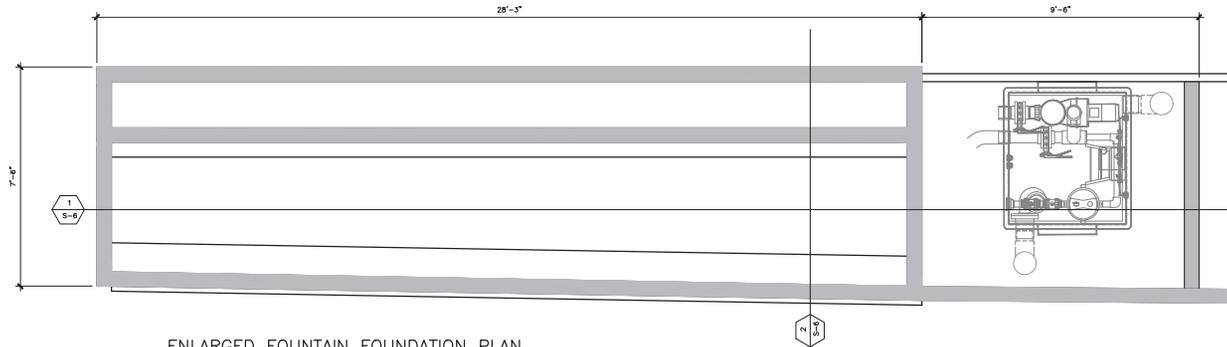
REVISION  
CONSTRUCTION PHASE

TRELLIS ROOF  
STRUCTURAL  
PLAN

SHEET TITLE

S-5

SHEET NO.

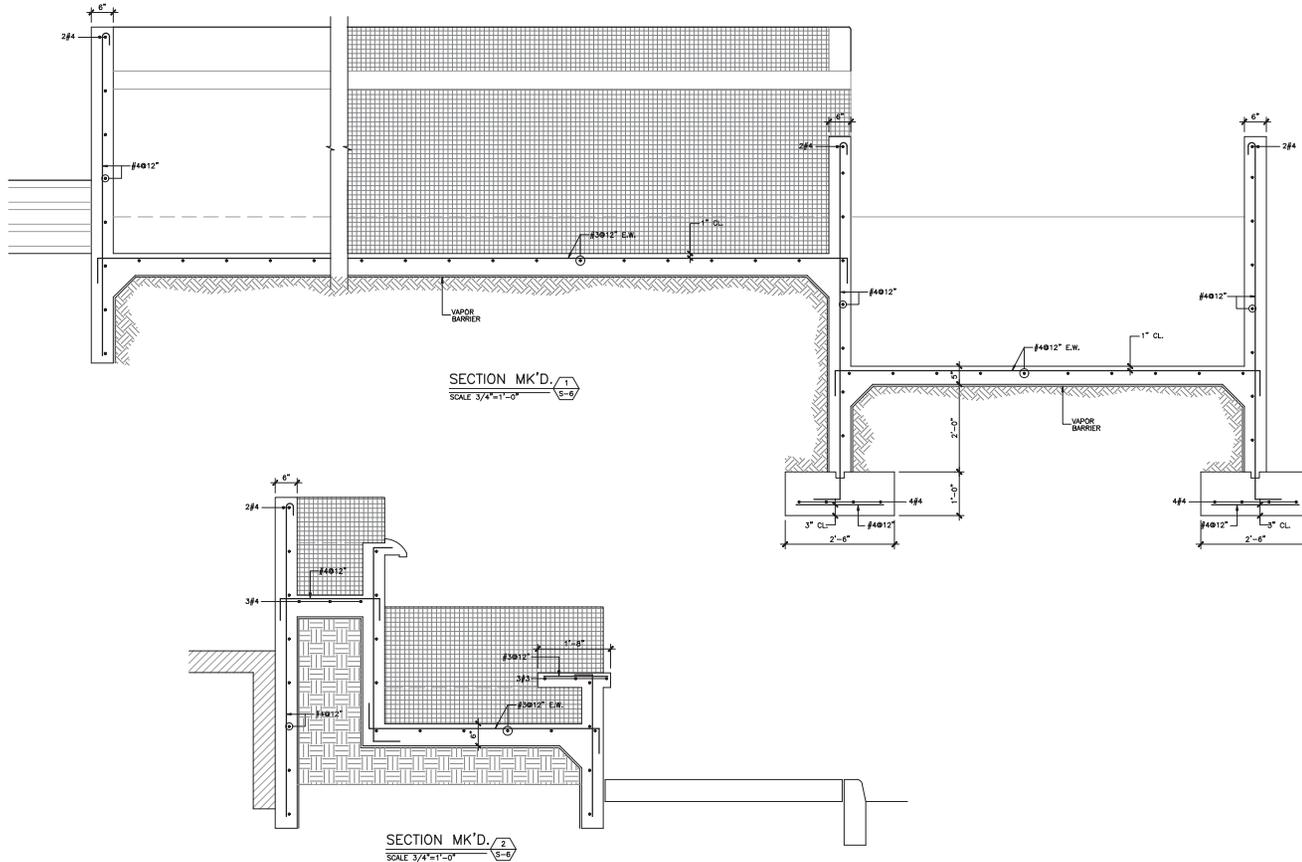


**ENLARGED FOUNTAIN FOUNDATION PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS



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JOSE RAMON FIGUEROA RIVERA  
 PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 24, 2024 PRINTING DATE  
 C.J.Q. DRAWING / APPROVAL

REVISION  
 CONSTRUCTION PHASE  
 ENLARGED FOUNTAIN FOUNDATION PLAN AND SECTIONS

S-6 SHEET NO.





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PROFESSIONAL CONSULTANT

**CONFIRMACIÓN:**  
 Yo, **REYES FELICIANO INGENIERO** (Licenciado No. 1714), declaro que soy el profesional que elaboró estos planos y los elaboré de acuerdo con las normas y procedimientos de la profesión. Declaro que soy el profesional que elaboró estos planos y los elaboré de acuerdo con las normas y procedimientos de la profesión. Declaro que soy el profesional que elaboró estos planos y los elaboré de acuerdo con las normas y procedimientos de la profesión.

Examiné que cualquier distribución de energía eléctrica en las instalaciones que se proyecta en estos planos, se hizo de acuerdo con las normas y procedimientos de la profesión. Declaro que soy el profesional que elaboró estos planos y los elaboré de acuerdo con las normas y procedimientos de la profesión. Declaro que soy el profesional que elaboró estos planos y los elaboré de acuerdo con las normas y procedimientos de la profesión.

**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

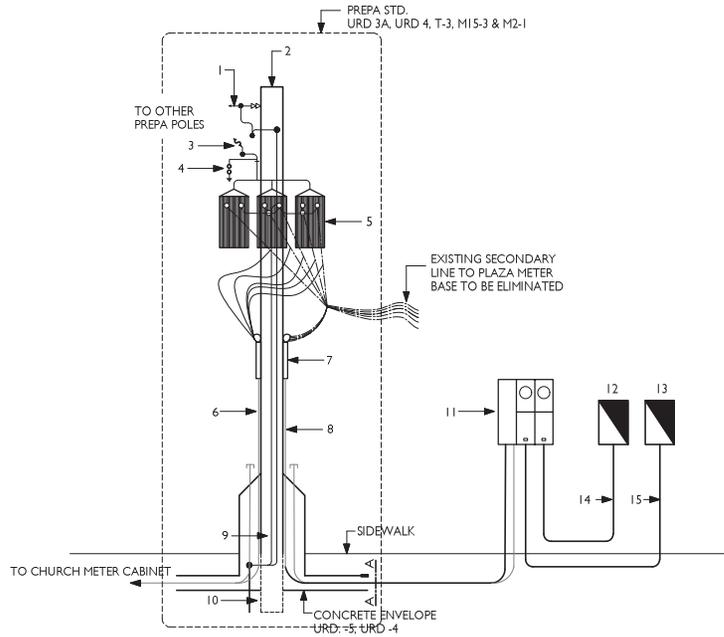
MUNICIPIO VILLALBA

48-2022  
 26 JANUARY 2024  
 CIQ

PROPOSED ELECTRICAL SITE DISTRIBUTION

PROPOSED ELECTRICAL SITE DISTRIBUTION

ES-100



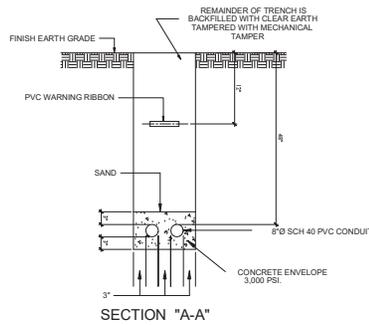
**ONE LINE DIAGRAM**  
 SCALE 1/4" = 1'-0"



**PROPOSED ELECTRICAL SITE DISTRIBUTION**  
 SCALE 3/32" = 1'-0"

**EXISTING POLE LEGEND**

- EXISTING 30, 4W, 4.16KV OVERHEAD PRIMARY LINE.
- EXISTING 45FT POLE.
- (3) OPEN FUSE CUT OUTS, 27KV 125 KV BIL WITH 40 FUSE LINKS.
- (3) OUTDOOR LIGHTING ARRESTER 3KV.
- (3) POLE TYPE OIL IMMERSED 75 KVA TRANSFORMERS 4.16 KV PRIMARY DELTA CONNECTED- 10/208 SECONDARY WYE CONNECTED TO REPLACE EXISTING 150 KVA POLE TYPE SUBSTATION.
- EXISTING CHURCH UNDERGROUND SECONDARY FEEDER TO BE CONNECTED TO NEW 225 KVA SUBSTATION.
- 4" RGS CONDUIT TRANSITION TO PVC SCH40 UNDERGROUND.
- SECONDARY FEEDER CONSISTING OF 4C #4/0 IN 2 1/2" CONDUIT. PROVIDE 1 - 2 1/2" SPARE CONDUIT TO METER BASE.
- #2 GROUND COOPER CONDUIT.
- COOPER GROUND ROD 3/4 x 10 FT.
- 400A MAIN LUGS METER BASE WITH ONE 200A 3PH 240V METER BASE AND ONE 100A 3PH 240V MAIN BREAKER METER BASE.
- 200A 3PH 120/240V PANELBOARDS TO SERVE PUBLIC AREA. SEE SCHEDULE FOR DETAIL.
- 100A 3PH 120/240V PANELBOARDS FOR CONCESSIONARY. SEE SCHEDULE FOR DETAIL.
- SECONDARY FEEDER CONSISTING OF 4#3/0 THAN AND 1#2 IN 2" CONDUIT. USE PVC SHC 40 FOR UNDERGROUND AND RGS EXPOSED.



**GRAPHIC LEGEND**

- E---E---E--- EXISTING ELECTRICAL LINE
- ⊠ EXISTING METER BASE TO BE REMODEL.
- EXISTING 150KVA ELECTRICAL SUBSTATION
- NEW PANELS
- CONDUIT CONCEALED FLOOR SLAB OR WALL WITH ONE (1) LIVE WIRE, ONE (1) NEUTRAL AND ONE (1) GROUND WIRE. A DIFFERENT AMOUNT OF WIRE ARE INDICATED BY CROSSING BARS: A SHORT BAR DENOTES A LIVE WIRE, A LONG BAR A NEUTRAL WIRE, AND A LONG BAR WITH A FLAGGED TICK MARK A GROUND WIRE.
- EMB EXISTING METER BASE TO REMAIN
- EMR EXISTING METER BASE TO BE REPLACED BY NEW TWO POS METER BANK



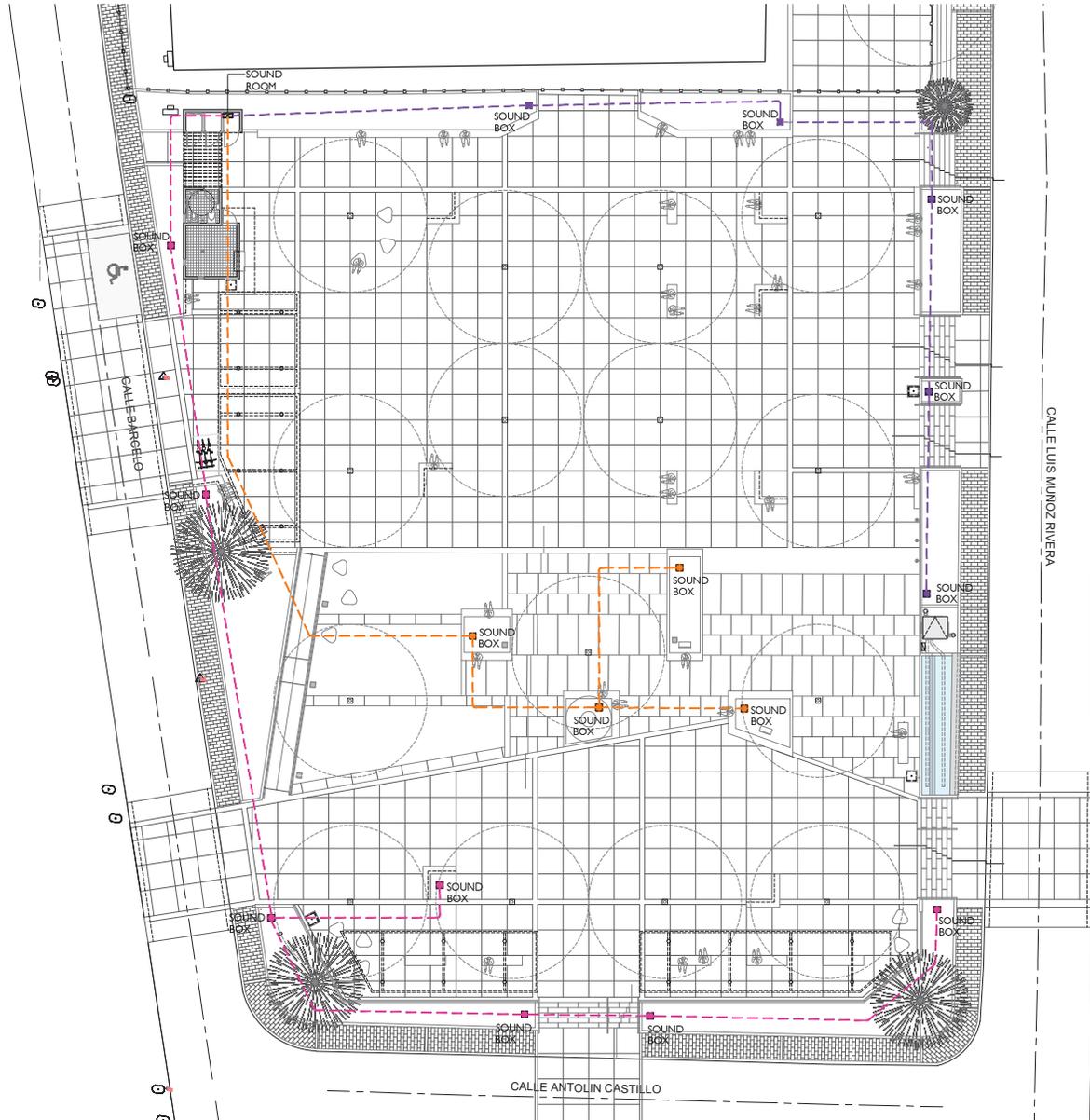


**SOUND LEGEND:**

-  SOUND EQUIPMENT
-  SPEAKERS EXTERIOR KIND (INSTALL CONCRETE BASE AS REQUIRED BY SUPPLIER)
-  ZONE 1: CONDUITS RUN BELOW FLOOR.
-  ZONE 2: CONDUITS RUN BELOW FLOOR.
-  ZONE 3: CONDUITS RUN BELOW FLOOR.

**NOTES:**

1. INSTALL ALL EQUIPMENTS AS REQUIRED BY DESIGNED SUPPLIER.
2. PROVIDE CONCRETE BASE AT PLANTERS AREA AS SPECIFY ON DISTRIBUTION PLAN. DIMENSIONS APPROXIMATES 8" DIAM. X 16" HEIGHT.



**PROPOSED SOUND DISTRIBUTION**  
SCALE 3/32" = 1'-0"



NOTE: All design, pricing and specifications prepared by VISURA CONSULTING are subject to the right of the client to accept or reject any or all of the same. All work shown herein is for informational purposes only and does not constitute a contract. All work shall be performed in accordance with the applicable laws and regulations of the jurisdiction.



**CERTIFICACION:**  
Yo, **REYES FELICIANO INGENIERO CIVIL**, certifico que soy el profesional que diseño estos planos y los especificaciones correspondientes. También certifico que entiendo que dichos planos y especificaciones representan el trabajo que será ejecutado en el proyecto. Soy un profesional independiente y no estoy afiliado a ninguna institución profesional. Soy un profesional independiente y no estoy afiliado a ninguna institución profesional. Soy un profesional independiente y no estoy afiliado a ninguna institución profesional.

**BID SET**

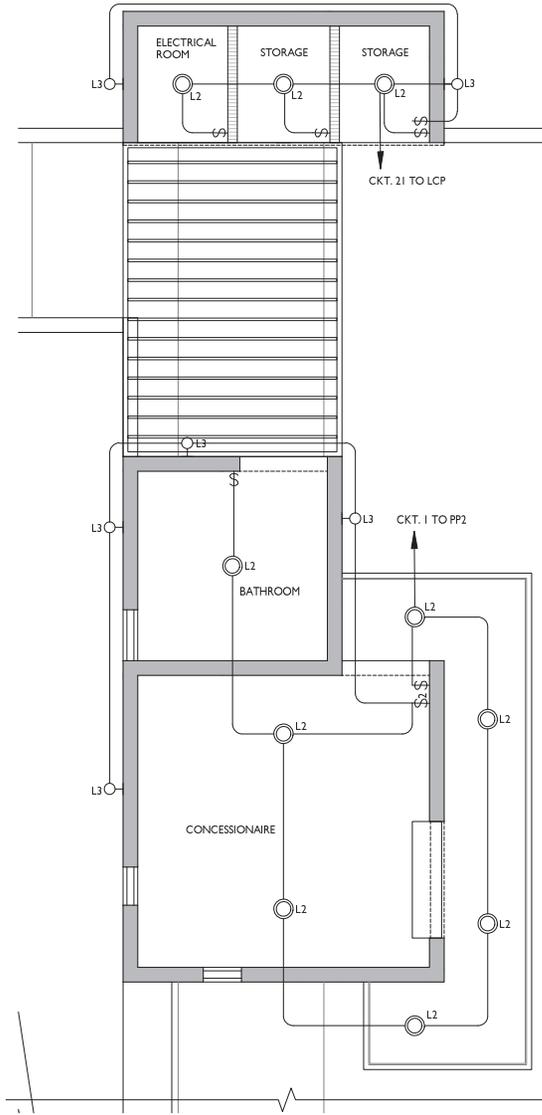
**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER: 48-2022  
PROJECT NUMBER: JANUARY 26, 2024  
REVISIONS: 01  
CHECKED: [Signature]

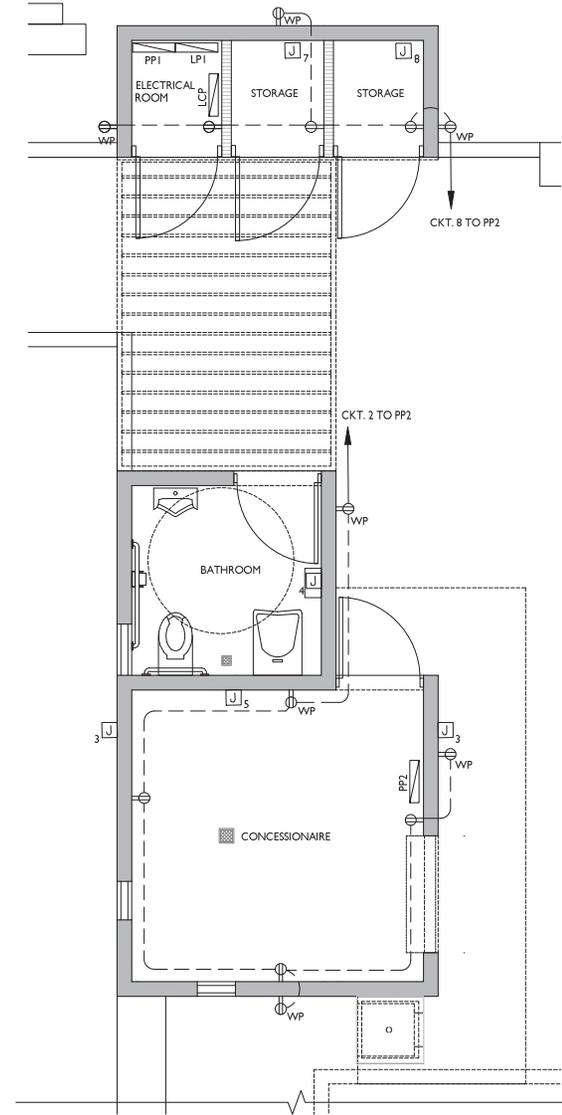
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CONSTRUCTION PHASE: [Blank]  
PROJECT: [Blank]

SOUND DISTRIBUTION  
SHEET TITLE: ES-400  
SHEET NO.: [Blank]

DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD PP1 225A 3PH 3W 120/240V	1,3,5	50	5#6	3	1/4"	LP1
	2,4,6	40	5#8	3	1/4"	FOUNTAIN
	7,9	40	4#8	2	1"	Electric Car Charger
	8	20	3#10	1	3/4"	Planters Receptacles
	10	20		1		Spare
	11,12	20	3#10	1	3/4"	Planters Receptacles
	13-16	20		1		Spare
	17,18	20	3#10	1	3/4"	Bench receptacles
19-24	20				space	
DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD LP1 100A 3PH 3W 120/240V	1	20	3#10	1	3/4"	Lighting Poles
	2,4	20	3#10	1	3/4"	Planters Lighting
	3	20	3#10	1	3/4"	Bench Lighting
	5	20	3#10	1	3/4"	Planters Lighting
	6,7,9,10	20	3#10	1	3/4"	Step Lights
	8	20	3#10	1	3/4"	Planters Lighting
	11,12	20	3#10	1	3/4"	LED Strips
	13	20	3#10	1	3/4"	Planters Lighting
	14	20	3#10	1	3/4"	Lighting Poles
	15,16	20	3#10	1	3/4"	Step Lights
	17	20	3#10	1	3/4"	Planters Lighting
	18,19,20	20	3#12	1	3/4"	Lighting Trellis
	21	20	3#12	1	3/4"	Storage area
22-24	20		1		Spare	
DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD PP2 100A 3PH 3W 120/240V	1	20	3#12	1	3/4"	Lighting Concesionary
	2	20	3#10	1	3/4"	Receptacles Concesionary
	3,5	50		2		Spare
	5,7	30				Spare
	8	20	3#12	1	3/4"	Storage area
	9-12	20		1		Spare



PROPOSED CONCESSIONAIRE LIGHTING LAYOUT  
SCALE 1/2" = 1'-0"



PROPOSED CONCESSIONAIRE POWER LAYOUT  
SCALE 1/2" = 1'-0"



NOTE: All design, pricing and specifications prepared by VISURA are subject to change without notice. All work shall be in accordance with the applicable codes and standards. All work shall be in accordance with the applicable codes and standards. All work shall be in accordance with the applicable codes and standards.



PROFESSIONAL CONSULTANT  
Ing. FELIX FIGUEROA INGENIERO CIVIL  
No. 48-2022  
January 26, 2024  
CIC

**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
DATE  
CIC

CONSTRUCTION PHASE PROJECT

CONCESSIONAIRE FLOOR PLAN  
SHEET NO.

E-100



NOTE: All design, pricing and specifications prepared by VLSRA, CIP are to be used as a guide only. VLSRA, CIP does not warrant or assume any liability for any errors or omissions in this drawing. VLSRA, CIP does not accept any responsibility for any errors or omissions in this drawing. All construction shall be governed under a contract of law.



**CERTIFICADO**  
 Yo, **REY FELICIANO INGENIERO**, Licenciado en Ingeniería Civil, número de licencia profesional con número de placa 23, he revisado los planos y especificaciones que conforman el Proyecto de Construcción de la Plaza de la Riberita, en el Municipio de Villalba, Puerto Rico, y certifico que los planos y especificaciones cumplen con los requisitos de la Ley de Obras Públicas, Ley Núm. 173 de 1952, y con los Estatutos y Reglamentos de la Corporación de Regulación y Control de la Ingeniería y Arquitectura, y con los Reglamentos y Estatutos de la Corporación Pública de Villalba.

Entiendo que cualquier modificación o alteración de los planos que se haga en un momento posterior a la aprobación de estos planos por mí, se hará por escrito, en un formato aprobado, y por una persona con la autorización que necesite para poder realizar tales modificaciones, y que cualquier modificación de este tipo será aprobada por mí y será vinculante para el propietario de la obra.

**BID SET**

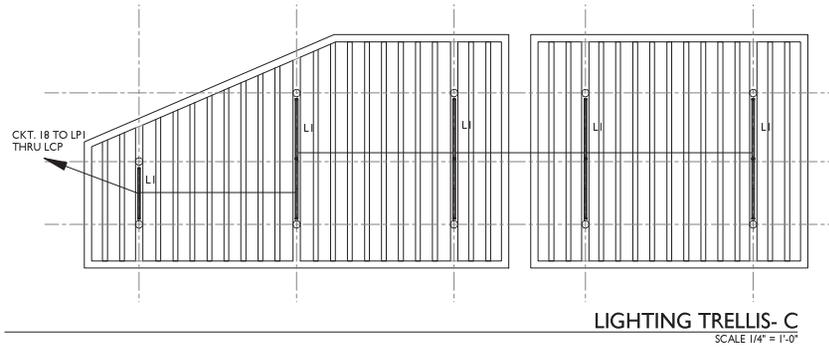
**JOSE RAMON FIGUEROA  
 RIVERA PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 29, 2024  
 REVISION DATE  
 CIP  
 CHECKED/REVISED

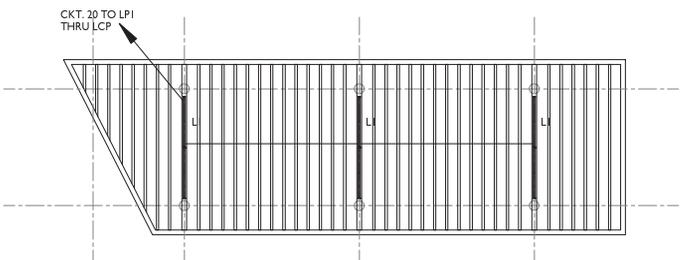
REGION  
 CONSTRUCTION PHASE  
 PROJECT

TRELLIS ENLARGED DRAWINGS  
 SHEET TITLE

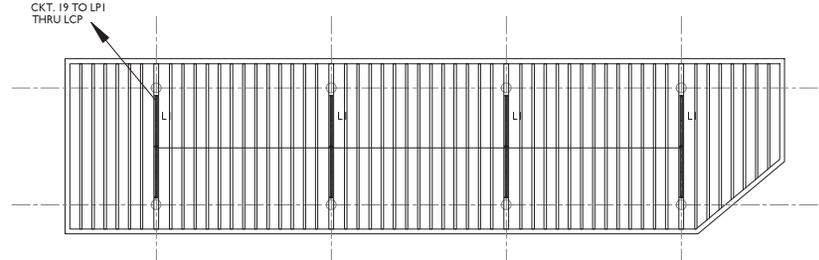
E-200  
 SHEET NO.



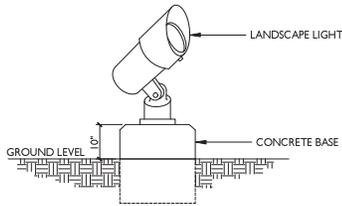
**LIGHTING TRELLIS- C**  
 SCALE 1/4" = 1'-0"



**LIGHTING TRELLIS- B**  
 SCALE 1/4" = 1'-0"



**LIGHTING TRELLIS- A**  
 SCALE 1/4" = 1'-0"



LANDSCAPE LIGHT  
CONCRETE BASE DETAIL (TYPICAL)  
NOT TO SCALE

LIGHTING FIXTURES SCHEDULE								
ID.	FIXTURE TYPE	MOUNT TYPE	MANUFACTURER	MODEL	DIMENSION	COLOR TEMPERATURE	FINISH	REMARKS
L1	LINEAR LED LIGHT	PERGOLA CEILING	LUMENPULSE	LUMENFACADE	48" LENGTH	4,000K	BLACK	TRELLIS
L1A	LINEAR LED LIGHT	PERGOLA CEILING	LUMENPULSE	LUMENFACADE	24" LENGTH	4,000K	BLACK	TRELLIS
L2	ROUND LIGHT	CEILING SURFACE	WAC LIGHTING	DOWNTOWN	5" DIA.	4,000K	BLACK	CONCESSIONAIRE
L3	WALL INDIRECT SCENE	WALL MOUNT	WAC LIGHTING	TUBE ARCHITECTURAL	4 1/2" DIA.	4,000K	BLACK	CONCESSIONAIRE
L4	STEP LIGHT	WALL MOUNT	TARGETTI	ZEDGE LINE	12" LENGHT	4,000K	BLACK	BENCHS, STAIRS & LOW WALLS
L5	LIGHT FIXTURE POLE	FLOOR	LUMENPULSE	STEELE	23" HEIGHT	4,000K	BLACK	LIGHT POLE
LSA	ROUND POLE	FLOOR	LUMENPULSE	W/O STRAIGHT POLE	4" DIA. X 14'-0" H	---	BLACK	INSTALL GROUND FAULT OUTLET 18" FROM TOP OF POLE. SEE SPECIFICATIONS FOR DETAILS.
L6	LINEAR LED STRIP LIGHT	LOW WALLS & STAIRS	KLUS INSPIRING SOLUTIONS	WP-K-CR-1210-24V	VARIES	4,000K	BLACK	BENCHS & STAIRS
	ALUMINUM EXTRUSION	LOW WALLS & STAIRS	KLUS INSPIRING SOLUTIONS	PD54-ALU EXTRUSION	VARIES	---	BLACK	LIGHTING L6 COMPONENTS
	MAGNETIC TRANSFORMER	WALL MOUNT	KLUS INSPIRING SOLUTIONS	MD-CLASS 2 LED DRIVER	AS PER SPECS.	---	---	LIGHTING L6 COMPONENTS
L7	GROUND	LANDSCAPE	WAC LANDSCAPE LIGHTING	GRAND ACCENT	8 1/2" LENGTH	4,000K	BLACK ON ALUMINUM	LANDSCAPE



NOTE: All design, pricing and specifications are prepared by VLSRA S.A. and are subject to change without notice. The client is responsible for verifying the accuracy of the information provided in this schedule. VLSRA S.A. is not responsible for any errors or omissions in this schedule. All materials and workmanship shall conform to the specifications of the manufacturer and shall be subject to inspection and approval by the client.



**CERTIFICACION:**  
Yo, FELIX FELICIANO RODRIGUEZ, Ingeniero Profesional No. 10, Puerto Rico, certifico que he revisado y aprobado los planos y especificaciones de este programa de especificaciones para el suministro de luminarias y accesorios para iluminación exterior. He verificado que el mismo cumple con los requisitos de diseño y construcción establecidos en el programa de especificaciones y que los materiales y métodos de ejecución propuestos son adecuados para el cumplimiento de los requisitos de diseño y construcción. He verificado que el programa de especificaciones cumple con los requisitos de diseño y construcción establecidos en el programa de especificaciones y que los materiales y métodos de ejecución propuestos son adecuados para el cumplimiento de los requisitos de diseño y construcción.

**Specification Sheet** | **lumenpulse**

Product: **LEDAD-120-48-40K-60180**

**Product Summary**

Part Number	Description
LEDAD-120-48-40K-60180	LEDAD-120-48-40K-60180
LEDAD-120-48-40K-60180-1	LEDAD-120-48-40K-60180-1
LEDAD-120-48-40K-60180-2	LEDAD-120-48-40K-60180-2
LEDAD-120-48-40K-60180-3	LEDAD-120-48-40K-60180-3
LEDAD-120-48-40K-60180-4	LEDAD-120-48-40K-60180-4
LEDAD-120-48-40K-60180-5	LEDAD-120-48-40K-60180-5
LEDAD-120-48-40K-60180-6	LEDAD-120-48-40K-60180-6
LEDAD-120-48-40K-60180-7	LEDAD-120-48-40K-60180-7
LEDAD-120-48-40K-60180-8	LEDAD-120-48-40K-60180-8
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LEDAD-120-48-40K-60180-50	LEDAD-120-48-40K-60180-50

**Specification Sheet** | **WAC LIGHTING**

Product: **Downtown Round Downlight Ceiling Mount**

**Product Description**

The Downtown Round Downlight Ceiling Mount is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **WAC LIGHTING**

Product: **TUBE ARCHITECTURAL DS-W505 LED Wash Mount**

**Product Description**

The TUBE ARCHITECTURAL DS-W505 LED Wash Mount is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **TARGETTI**

Product: **ZEDGE LINE Recessed Direct View Linear LED Washlight**

**Product Description**

The ZEDGE LINE Recessed Direct View Linear LED Washlight is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **lumenpulse**

Product: **ST-35-120-CIL-540-BWC-CR180-30R**

**Product Description**

The ST-35-120-CIL-540-BWC-CR180-30R is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Configured Specification Sheet** | **LSA**

Product: **poles, arms & accessories**

**Product Description**

The poles, arms & accessories are high-quality, durable lighting fixtures designed for use in commercial and residential settings. They feature a sleek, modern design and are available in a variety of finishes and colors. The fixtures are made of high-quality materials and are built to last. They are easy to install and maintain. The fixtures are available in a variety of sizes and are suitable for use in a wide range of applications. The fixtures are a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **LSA**

Product: **Direct Mount and Ground Fault Shields**

**Product Description**

The Direct Mount and Ground Fault Shields are high-quality, durable lighting fixtures designed for use in commercial and residential settings. They feature a sleek, modern design and are available in a variety of finishes and colors. The fixtures are made of high-quality materials and are built to last. They are easy to install and maintain. The fixtures are available in a variety of sizes and are suitable for use in a wide range of applications. The fixtures are a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **KLUS Inspiring Solutions**

Product: **WP-K-CR-1210-24V FLEXIBLE LED STRIP LIGHT SHEET**

**Product Description**

The WP-K-CR-1210-24V FLEXIBLE LED STRIP LIGHT SHEET is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **KLUS Inspiring Solutions**

Product: **WP-K-CR-1210-24V FLEXIBLE LED STRIP LIGHT SHEET**

**Product Description**

The WP-K-CR-1210-24V FLEXIBLE LED STRIP LIGHT SHEET is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **KLUS**

Product: **MD-SERIES MAGNETIC DIMMABLE CLASS 2 LED DRIVER**

**Product Description**

The MD-SERIES MAGNETIC DIMMABLE CLASS 2 LED DRIVER is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **WAC LANDSCAPE LIGHTING**

Product: **GRAND ACCENT 120V 512**

**Product Description**

The GRAND ACCENT 120V 512 is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**Specification Sheet** | **ROMAN FOUNTAINS**

Product: **RF-1M-JA-VDC-30W SERIES FLUSH MOUNT SUBMERSIBLE LED LIGHT FIXTURE**

**Product Description**

The RF-1M-JA-VDC-30W SERIES FLUSH MOUNT SUBMERSIBLE LED LIGHT FIXTURE is a high-quality, durable lighting fixture designed for use in commercial and residential settings. It features a sleek, modern design and is available in a variety of finishes and colors. The fixture is made of high-quality materials and is built to last. It is easy to install and maintain. The fixture is available in a variety of sizes and is suitable for use in a wide range of applications. The fixture is a great choice for anyone looking for a reliable and stylish lighting solution.

**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
**CALE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
PROJECT DATE  
CIQ  
DESIGN APPROVED

CONSTRUCTION PHASE  
SUBMITTAL

LIGHTING FIXTURE SCHEDULE & DATA  
SHEET TITLE

E-300  
SHEET NO.



**GENERAL NOTES**

1. THESE PLANS MATCH THE PLANS SUBMITTED AT "OFICINA DE GERENCIA DE PERMISOS (OGPe)".
2. OWNER IS RESPONSIBLE TO OBTAIN, PRIOR TO THE PROJECT COMMENCE DATE, ALL FEDERAL, STATE, MUNICIPAL AND PRIVATE REQUIRED ENDORSEMENTS, PERMITS AND RIGHT OF WAYS CONCERNING THIS TYPE OF PROJECT.
3. OWNER MUST CONTRACT THE SERVICES OF A LICENSED AND REGISTERED ENGINEER WHO SHALL BE RESPONSIBLE OF INSPECTING THE ELECTRICAL WORKS ACCORDING TO LAW NUMBER 7 OF JULY 19, 1985, AS AMENDED AND WITH THE LATEST PREPA'S ELECTRICAL CONSTRUCTION PROJECT PLANS CERTIFICATION REGULATION. OWNER MUST NOTIFY PREPA THE DESIGNATION OF THE PROJECT INSPECTOR BEFORE PROJECT BEGINS.
4. ELECTRICAL WORK PERFORMANCE, AS DESIGN IN THESE PLANS, MUST OBSERVE THE BEST ELECTRICAL CONSTRUCTION INDUSTRY PRACTICES IN ACCORDANCE WITH PREPA AND CONCERNING AGENCIES ADOPTED RULES AND REGULATIONS AND WITH THE NEC AND NES CODES AND IEEE, NFPA, NEMA AND ANSI ADOPTED STANDARDS.
5. CONTRACTOR IS NOT AUTHORIZED TO MAKE VARIATIONS TO THIS DESIGN. CONTRACTOR IS RESPONSIBLE FOR CONSULTING THE DESIGNER OR THE PROJECT DESIGNATED INSPECTOR OF ANY DOUBT IN PLAN INTERPRETATION, WORK EXECUTION, TECHNICAL SPECIFICATIONS OR DISCREPANCY BETWEEN EXISTING SITE CONDITIONS AND DESIGN CRITERIA CONDITIONS.
6. OWNER OR ELECTRICAL CONTRACTOR MUST NOTIFY PREPA THE PROJECT STARTING DATE, BY FILING THE NOTIFICATION OF PROJECT BEGINNING DOCUMENT AT PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT, AT LEAST 15 DAYS PRIOR TO THE PROPOSED DATE.
7. DESIGNATED PRIVATE INSPECTOR AND ELECTRICAL CONTRACTOR ARE RESPONSIBLE TO ASSIST THE PRE-CONSTRUCTION MEETING TO BE COORDINATED WITH THE PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.
8. ALL WORKS TO BE PERFORMED ON ENERGIZED LINES, INCLUDING THE PROJECT FINAL CONNECTION, MUST BE DONE BY PREPA. PROPONENT MUST ASSUME ALL THE EQUIPMENT, MATERIALS AND LABOR COSTS. PROPONENT MUST REQUEST TO PREPA A JOB ESTIMATE WHICH SHALL BE VALID FOR 3 MONTHS.
9. WORK ON THE ELECTRICAL RIGHT OF WAY WITHOUT PREPA'S WRITTEN AUTHORIZATION IS PROHIBITED.
10. PREPA WILL NOT APPROVE ANY PROJECT CONNECTIONS THAT INVADES PREPA'S RIGHT OF WAY OR DOES NOT COMPLY WITH THE SECURITY CLEARANCES REQUIRED.

**MATERIALS**

1. ALL EQUIPMENT USED IN THE CONSTRUCTION HAS TO COMPLY WITH IEEE, ANSI, NEMA AND ASTM STANDARDS.
2. CONTRACTOR IS RESPONSIBLE TO VERIFY WITH PREPA, PRIOR TO INSTALLATION, THAT ALL MATERIALS AND EQUIPMENTS TO BE USED ARE PREPA APPROVED. PREPA RESERVES THE RIGHT OF ACCEPTING ANY EQUIPMENT TO BE TRANSFERRED TO THEM.
3. ALL EQUIPMENT AND MATERIALS (INCLUDING TRANSFORMERS AND SUBSTATION ENCLOSURES) TO BE INSTALLED WITHIN 1 MILE OR LESS OF SALTWATER BODIES SHALL BE CONSTRUCTED IN STAINLESS STEEL, WITH EXCEPTION OF THE METER BASES.
4. UNDERGROUND SYSTEMS SHALL USE 15kV PRIMARY CABLE TERMINATIONS FOR DISTRIBUTION VOLTAGES AND 46KV FOR 38KV LINES.
5. OVERHEAD SYSTEMS SHALL USE 15KV POLYMER INSULATORS FOR DISTRIBUTION VOLTAGES AND 46KV FOR 38KV LINES.
6. CONTRACTOR IS RESPONSIBLE FOR LABELING ALL TRANSFORMERS TO BE TRANSFERRED TO PREPA WITH A PROPER TY NUMBER PROVIDED BY PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.

**SYSTEMS**

1. IT IS THE OWNER'S RESPONSIBILITY TO PERFORM CABLE TEST TO ALL PRIMARY AND SECONDARY FEEDERS WITH ITS INSULATORS. TEST RESULTS MUST BE IN ACCORDANCE WITH THE PARAMETERS ESTABLISHED BY PREP FOR THE TESTS. TEST MUST BE PERFORM IN COORDINATION WITH THE REPRESENTATIVE OF THE INSPECTION OFFICE FROM THE CORRESPONDING PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.
2. DURING CABLE INSTALLATION, CABLE MUST BE PROTECTED FROM HUMIDITY AND ABRASIONS. CONTRACTOR IS RESPONSIBLE OF INSTALLING CABLES USING RECOMMENDED PULLING TECHNIQUES IN ORDER NOT TO EXCEED SPECIFIED CABLE MAXIMUM PULLING TENSION.
3. MAN-HOLE COVERS TO BE INSTALLED AT PLANTING AREAS, SHALL BE PROTECTED USING A REINFORCE CONCRETE SLAB AS PER PREPA STANDARD URD-S2.
4. WHEN THE PROJECT IS LOCATED LESS THAN A MILE FROM SALWATER BODIES, POLE RISER CONDUITS MUST BE EITHER, PVC SCHEDULE 80 OR FIBERGLASS AS APPROVED BY PREPA.
5. UNDERGROUND DUCT BANKS MUST BE INSPECTED BY PREPA BEFORE IT IS COVERED AND COMPACTED FREEFILL.
6. ALL DUCT BANKS EXPOSED TO VEHICULAR TRAFFIC SHALL BE PROTECTED WITH A CONCRETE ENVELOPE. THOSE THAT ARE NEAR OTHER UTILITIES INSTALLATIONS MUST MAINTAIN A MINIMUM CLEARANCE OF 13 INCHES.
7. CONTRACTOR SHALL SUPPLY THE SAME AMOUNT OF SPARE FUSES AS THE ONES INSTALLED IN EACH SUBSTATION.
8. CONNECTORS USE FOR GROUNDING ANTENNAS AND SUBSTATIONS SHALL BE THERMO-WELD O COMPRESSION TYPE.
9. CONTRACTOR SHALL PROVIDE PULLING WIRE (FISHWIRE) AT EACH SPARE CONDUIT.
10. ALL DISTRIBUTION SYSTEMS SHALL HAVE A MAXIMUM GROUND RESISTANCE OF 10 OHMS. A GROUNDING ROD TO CONNECT THE NEUTRAL CABLE TO GROUND SHALL BE INSTALLED EVERY 4 POLES OR 1,000 FEET AND IN ALL TRANSFORMERS.
11. 2 SPARE CONDUITS SHALL BE INSTALLED AT EACH POLE CONCRETE BASE FOR FUTURE USE AS REQUIRED BY PREPA.
12. POLE CONCRETE BASE SHALL BE INSPECTED BY PREPA DURING THE CONSTRUCTION PHASE.

**SPECIAL NOTES**

1. CONTRACTOR SHALL PAY PREP THE AMOUNT OF \$10,000.00 FOR IMPROVEMENTS TO THE EXISTING ELECTRICAL SYSTEM. THIS AMOUNT SHALL BE PAID IN ANY OF OUR COMMERCIAL OFFICES WITH MONEY ORDER OR CERTIFIED CHECK AND SHALL BE CREDITED TO ACCOUNT CIG.
2. THE WORKS REQUIRED IN THE PROJECT EVALUATION OF JUNE 22 OF 2018.
3. PREPA WILL NOT CONNECT THE PROJECT TO THEIR SYSTEM UNTIL THE OWNER HAS ESTABLISHED THE REQUIRED RIGHT OF WAYS IN ACCORDANCE WITH "REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA". THIS NOTES APPLIES TO ALL REQUIRED RIGHT OF WAYS, INSIDE AND OUTSIDE OF THE PROJECT LIMITS.
4. THE INSTALLATION OF METERING SYSTEMS SHALL BE COORDINATED WITH THE MAYAGUEZ REGIONAL METERING OFFICE. THE DESIGNER OR THE ELECTRICAL CONTRACTOR SHALL MAKE SURE TO COORDINATE WITH THIS OFFICE THE EQUIPMENTS AND MATERIALS TO BE USED AND THE EQUIPMENT LOCATION.
5. THE INSTALLATION OF SUBSTATIONS, TRANSFORMERS OR OTHER ELECTRICAL EQUIPMENT OVER SANITARY SEWER, WATER LINES OR OTHER UTILITIES IS PROHIBITED.
6. IT IS NECESSARY THAT THE DESIGNER OF ELECTRICAL SYSTEMS THAT REQUIRES METERING EQUIPMENT FOR WHOLESALE ACCOUNTS SHALL COORDINATE WITH PREP ICEE OFFICE FROM THE MAYAGUEZ REGION EVERYTHING RELATED TO THIS EQUIPMENTS. SHALL COORDINATE TYPE OF METER, EQUIPMENT TO BE USED AND THEIR LOCATION.
7. THIS PROJECT REQUIRES WHOLESALE ACCOUNT CONTRACT THAT IS REQUIRED TO BE SIGNED BEFORE ENERGIZING THE PROJECT. THE TYPE OF EQUIPMENT, EQUIPMENT TO BE USED AND THEIR LOCATION WAS PREVIOUSLY COORDINATED WITH THE SUPERVISOR OF THE PREPA ICEE OFFICE FROM THE MAYAGUEZ REGION.
8. PREPA WILL INSTALL A 3-WAY SWITCH. 2 POSITIONS WILL BE 1200 AMPS AND 1 POSITION WILL BE 600 AMPS AT THE POLE 12. THE CONTRACTOR OF THE PROJECT WILL PAY 100% OF THE TOTAL COST OF THE 1200 AMPS AND 50% OF THE TOTAL COST OF THE 600 AMPS, INCLUDING MATE 5 Dum.
9. AND LABOR. COORDINATE THE DETAILS AND COSTS OF THIS WORKS WITH THE AGUA DISTRICT ENGINEER.



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CERTIFICADO



PROFESIONAL CONSULTANT

Yo, REYES FELICIANO, INGENIERO ELECTRICISTA (174), emito con el profesional que dentro estos planos y las especificaciones respaldadas, he sido verificado que cuando se los he dado y se han firmado con los datos de identificación profesional, he emitido los planos y especificaciones respaldadas con los datos de identificación profesional en los Registros y Colegios de la Ingeniería y Arquitectura y Corporación Pública en particular.

Proceso que cumple de la actividad y distribución de los planos en el momento de su emisión y en el momento de su recepción de los planos y especificaciones respaldadas por estos planos con el consentimiento de donde represento al contratante público y distribuido en el momento de su recepción, respaldado por el número de inscripción de la parte que en los procedimientos de cumplimiento profesional en CIGP.

**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 26, 2024 ESTIMATED DATE  
 CIGP PARTICIPANTS  
 CIGP CHECKED APPROVED

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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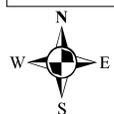
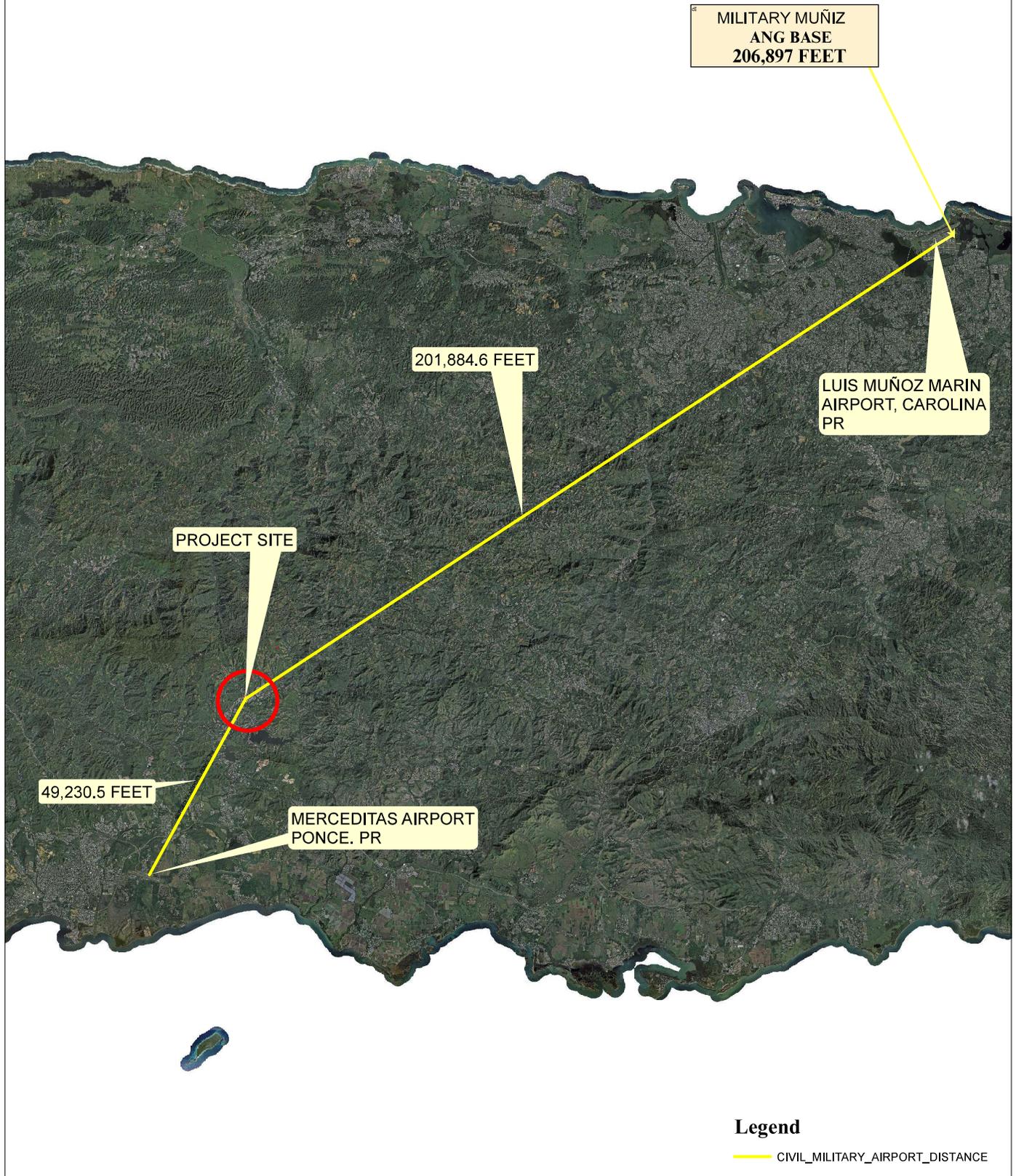
REVISION  
 CONSTRUCTION PHASE  
 PROJECT TITLE

ELECTRICAL NOTES

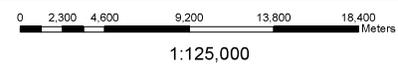
E-500 SHEET NO.

**Figure 3. Airport Hazards**

Plaza Pública José Ramón Figueroa Rivera  
Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766  
Lat: 18.12944388, Lon: -66.49262996



RELATION OF THE SITE TO THE NEAREST CIVIL AND MILITARY AIRPORT (LOCATION INF. FROM GOOGLE EARTH)



**Legend**  
— CIVIL\_MILITARY\_AIRPORT\_DISTANCE

VILLALBA PLAZA  
VILLALBA, PUERTO RICO

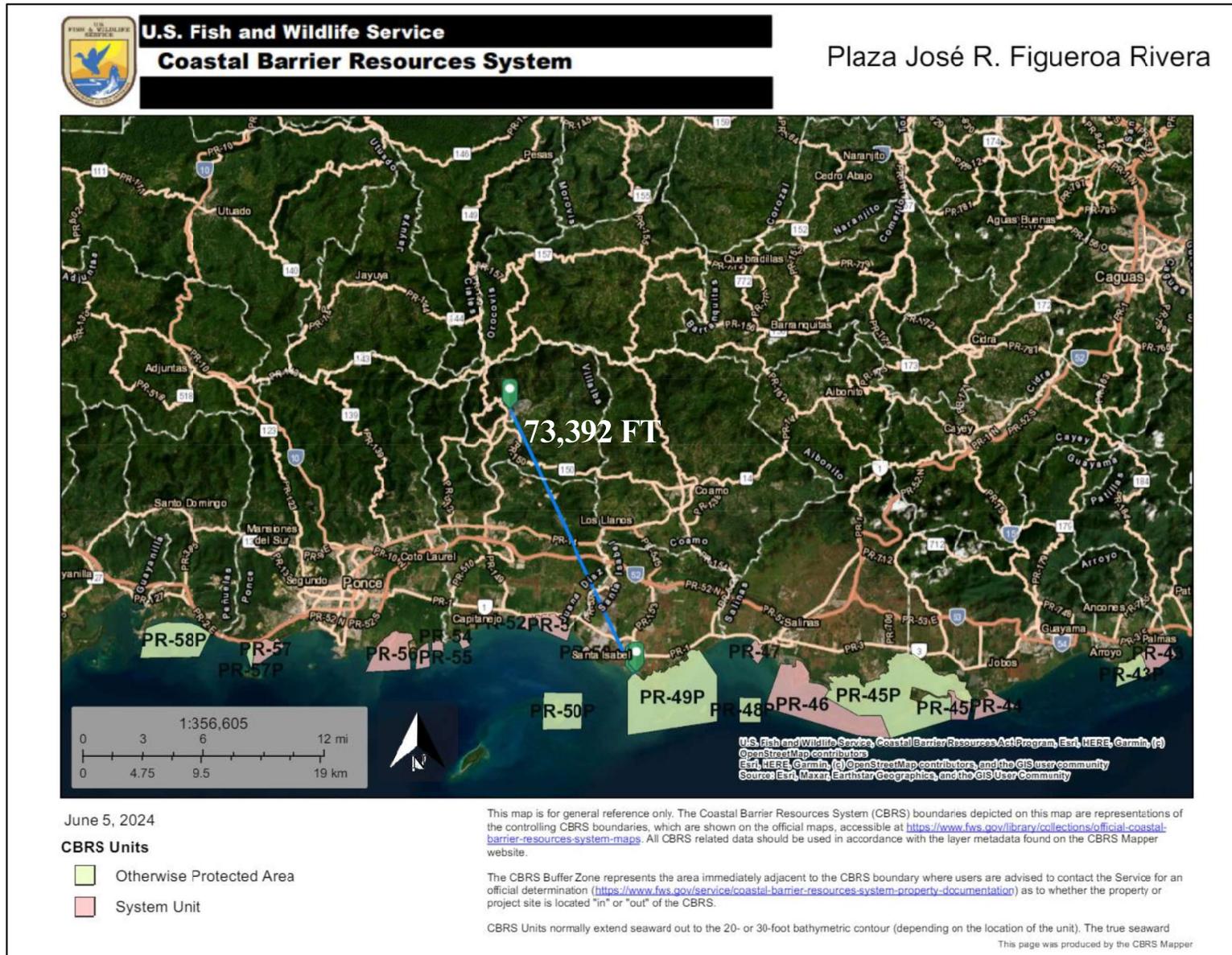
GBA  
Plan. Laredo González  
NOV/2022  
SHEET: 1/1



# Figure 4. Coastal Barrier Resources

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766  
Lat: 18.12844388, Lon: -66.49262996

Plaza Pública José Ramón Figueroa Rivera



# National Flood Hazard Layer FIRMette



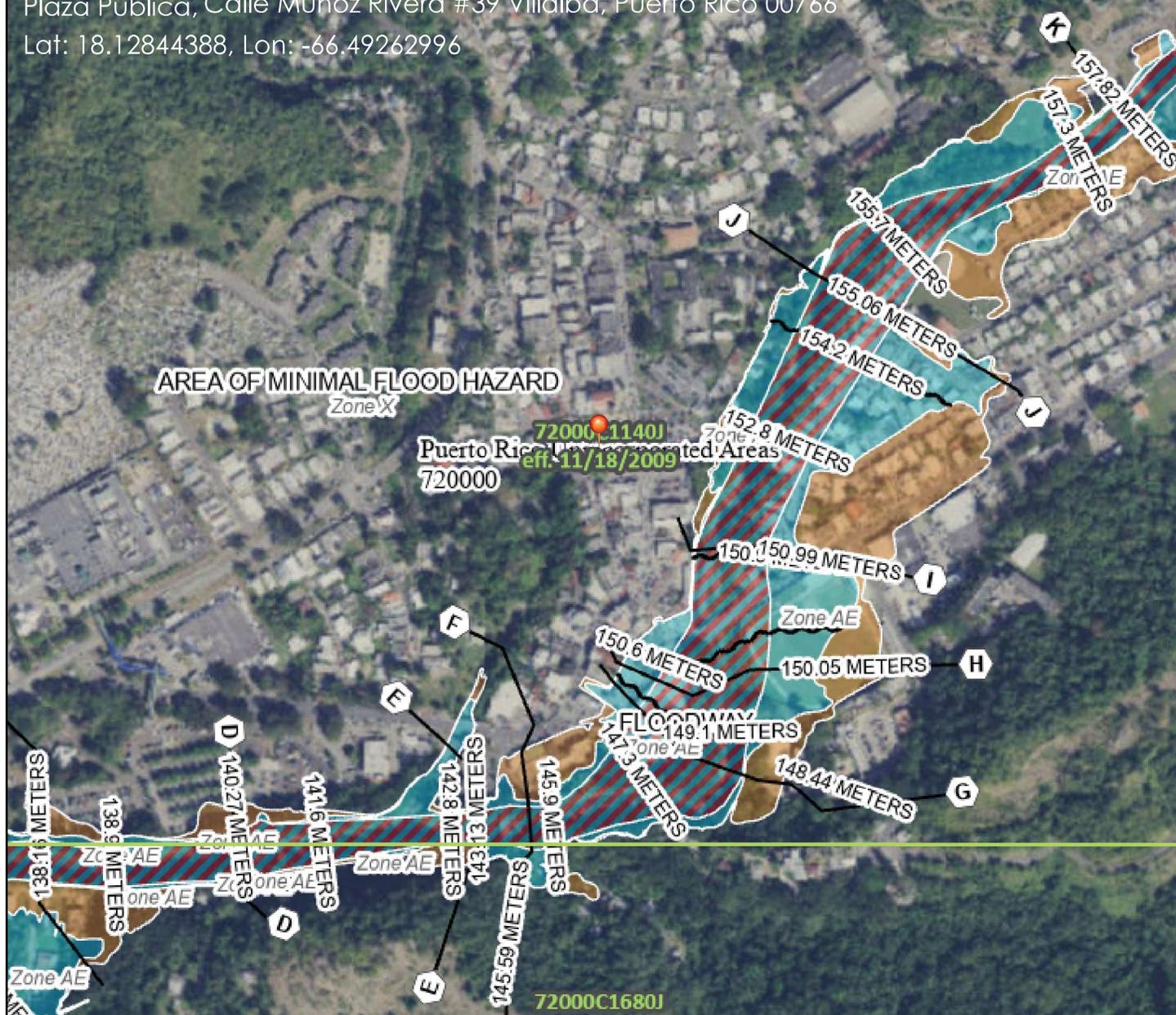
66°29'52"W 18°7'59"N

Figure 5. Flood Insurance Rate Map

Plaza Pública José Ramón Figueroa Rivera

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996



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

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

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

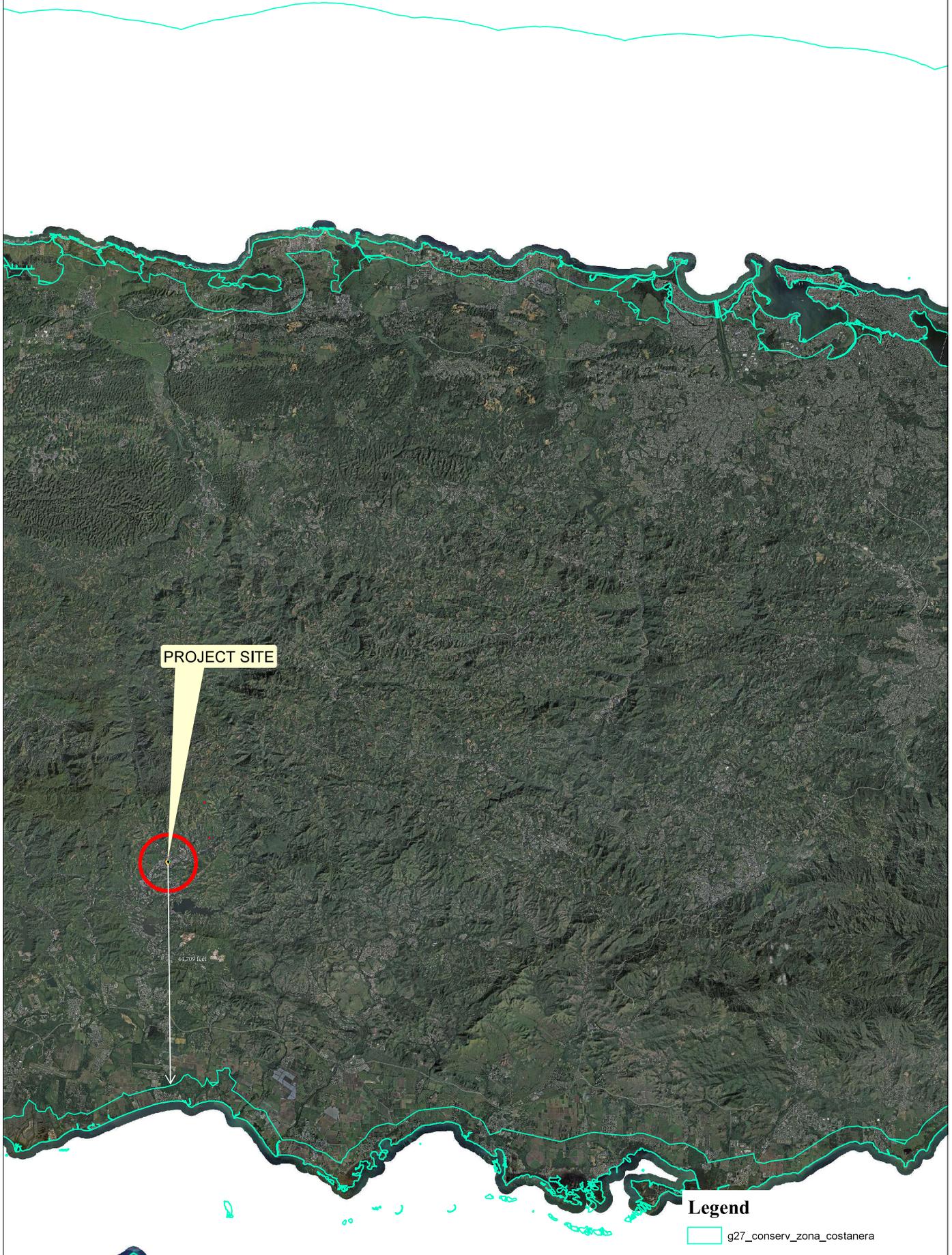
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/22/2022 at 7:57 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

**Figure 6. Coastal Zone Management**

Plaza Pública José Ramón Figueroa Rivera  
Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766  
Lat: 18.12844388, Lon: -66.49262996



**PROJECT SITE**

44,709 feet

**Legend**

 g27\_conserv\_zona\_costanera



RELATION OF THE SITE TO THE  
COASTAL ZONE CONSERVATION PROGRAM  
DELIMITATION  
([HTTPS://GIS.PR.GOV/DESCARGAEODATOS/PAGES/DEFAULT.ASPX](https://gis.pr.gov/DescargaeDatos/Pages/default.aspx))

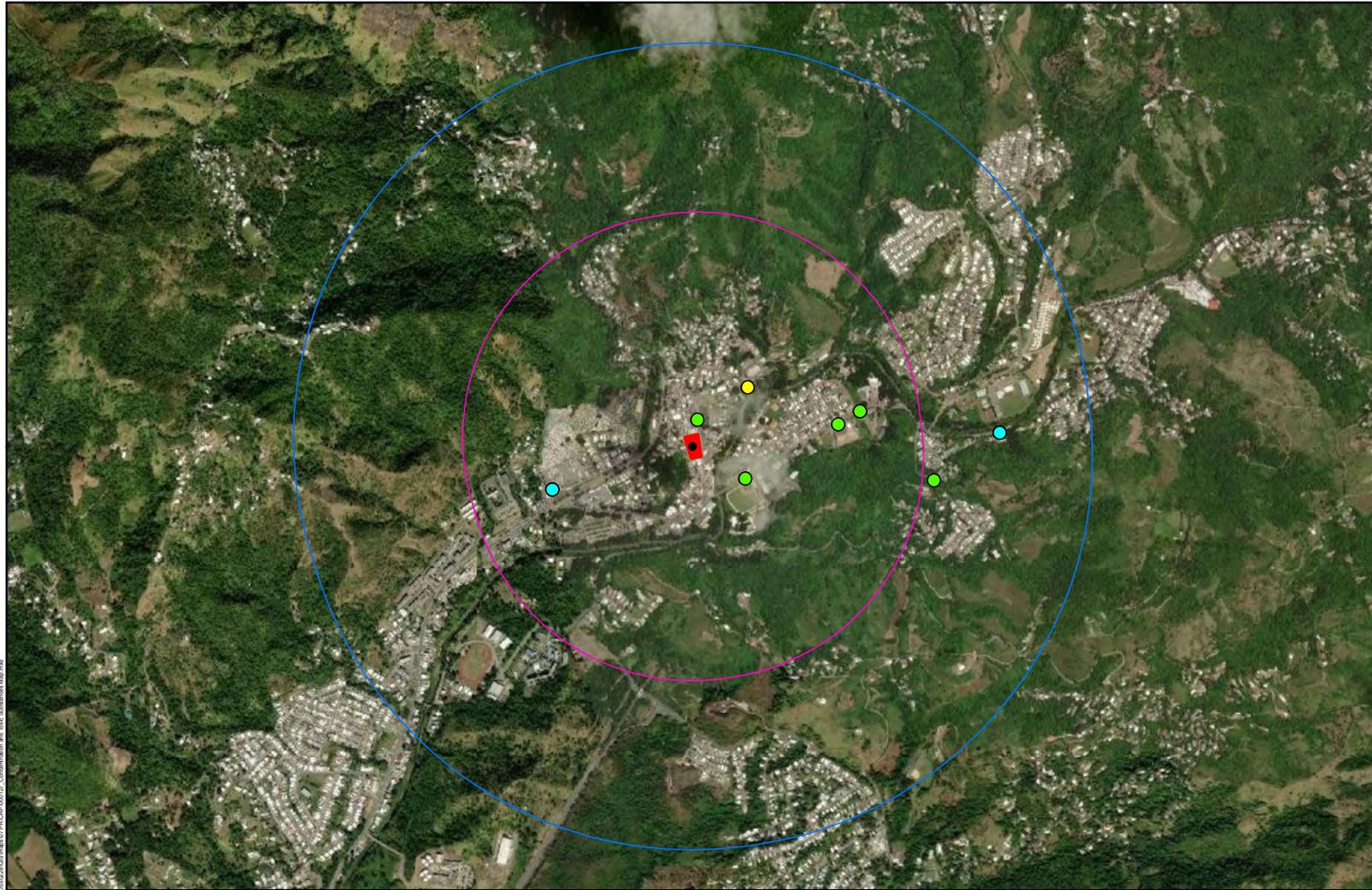
0 1,850 3,700 7,400 11,100 14,800  
Meters

1:100,000

VILLALBA PLAZA  
VILLALBA, PUERTO RICO

GBA  
Plan. Laredo González  
NOV/2022

SHEET: 1/1



**Legend**

- 18.072633, -66.959490
- NPL Superfund Sites
- Brownfields Sites
- TRI Sites
- RCRA Sites
- PRCRP000127
- 3,000-Foot Project Buffer
- 1-Mile Project Buffer

**PUERTO RICO**



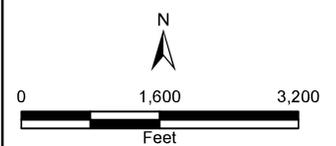
**Figure 7. Contamination and Toxic Substances Map  
Mejoras Plaza Pública José Ramón Figueroa Rivera**

**Applicant ID:** PR-CRP-000127  
**Project Coordinates:** Lat: 18.12844388, Lon: -66.49262996  
**Address:** Calle Muñoz Rivera #39  
 Villalba, Puerto Rico 00766



Source: CRIM 2014.  
<https://catastro.crimpr.net/cdprpc/>  
 U.S. Environmental Protection Agency  
<https://edg.epa.gov/data/>, ESRI 2023.

Author: Genevieve Kaiser  
 Date: 10/23/2024



File Path: C:\cdeh\ITDR - EPODCA City\Natural\BARRIO\_10182023\07PR-CRP-000127\_Contamination and Toxic Substances Map.mxd

# Mapa Niveles de Inundación Base Recomendados

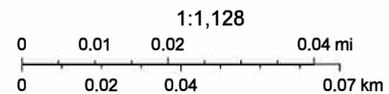
Figure 8. Advisory Base Flood Elevation (ABFE) Map

**Plaza Pública José Ramón Figueroa Rivera**  
 Plaza Pública, Calle Muñoz Rivera #39 Villalba; Puerto Rico 00766  
 Lat: 18.12844388, Lon: -66.49262996



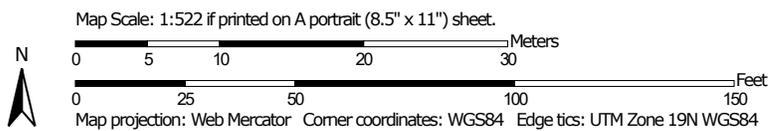
11/22/2022, 9:01:44 AM

- |  |   |
|--|---|
| Municipios Limite                                | A Costera                                     |
| 0.2 PCT Nivel de Inundación Base Recomendado     | VE  |
| 0.2 PCT- Límite entre niveles de inundación ABFE | X (0.2% Probabilidad Anual de Inundación)     |
| 0.2 PCT - Delimitación de Zonas Inundables       | 1 PCT Cauce Mayor                             |
| <b>Zona Inundable</b>                            | 1 PCT Nivel de Inundación Base Recomendado    |
| A  | 1 PCT Límite entre niveles de inundación ABFE |
| AE   | 1 PCT Delimitación de Zonas Inundables        |
| AO   | 1% Probabilidad Anual de Inundación           |



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

Figure 9. Farmland Classification—Ponce Area, Puerto Rico Southern Part  
 (Mejoras Plaza Publica Jose Ramon Figueroa Rivera (PR-CRP-000127))  
 Calle Munoz Rivera #39 Villalba, Puerto Rico 00766  
 Lat: 18.12844388, Lon: -66.49262996



Farmland Classification—Ponce Area, Puerto Rico Southern Part  
 ((Mejoras Plaza Publica Jose Ramon Figueroa Rivera (PR-CRP-000127)))

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

**Soil Rating Polygons**

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

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

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

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

-  Farmland of unique importance
-  Not rated or not available

**Soil Rating Lines**

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

Farmland Classification—Ponce Area, Puerto Rico Southern Part  
 ((Mejoras Plaza Publica Jose Ramon Figueroa Rivera (PR-CRP-000127)))

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

Farmland Classification—Ponce Area, Puerto Rico Southern Part  
 ((Mejoras Plaza Publica Jose Ramon Figueroa Rivera (PR-CRP-000127)))

<ul style="list-style-type: none"> <li> Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season</li> <li> Farmland of statewide importance, if irrigated and drained</li> <li> Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season</li> <li> Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer</li> <li> Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60</li> </ul>	<ul style="list-style-type: none"> <li> Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium</li> <li> Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season</li> <li> Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season</li> <li> Farmland of statewide importance, if warm enough</li> <li> Farmland of statewide importance, if thawed</li> <li> Farmland of local importance</li> <li> Farmland of local importance, if irrigated</li> </ul>	<ul style="list-style-type: none"> <li> Farmland of unique importance</li> <li> Not rated or not available</li> </ul> <p><b>Water Features</b></p> <ul style="list-style-type: none"> <li> Streams and Canals</li> </ul> <p><b>Transportation</b></p> <ul style="list-style-type: none"> <li> Rails</li> <li> Interstate Highways</li> <li> US Routes</li> <li> Major Roads</li> <li> Local Roads</li> </ul> <p><b>Background</b></p> <ul style="list-style-type: none"> <li> Aerial Photography</li> </ul>
---	---	---

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

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

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

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

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

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

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

Soil Survey Area: Ponce Area, Puerto Rico Southern Part  
 Survey Area Data: Version 19, 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
UI	Urban land	Not prime farmland	0.7	100.0%
<b>Totals for Area of Interest</b>			<b>0.7</b>	<b>100.0%</b>

### Description

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

### Rating Options

*Aggregation Method:* No Aggregation Necessary

*Tie-break Rule:* Lower



# Figure 10. Sole Source Aquifers Map

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766  
Lat: 18.12844388, Lon: -66.49262996

Plaza Pública José Ramón Figueroa Rivera





Figure 11. Wetlands Map

Plaza Pública José Ramón Figueroa Rivera

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996



November 22, 2022

Wetlands

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

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

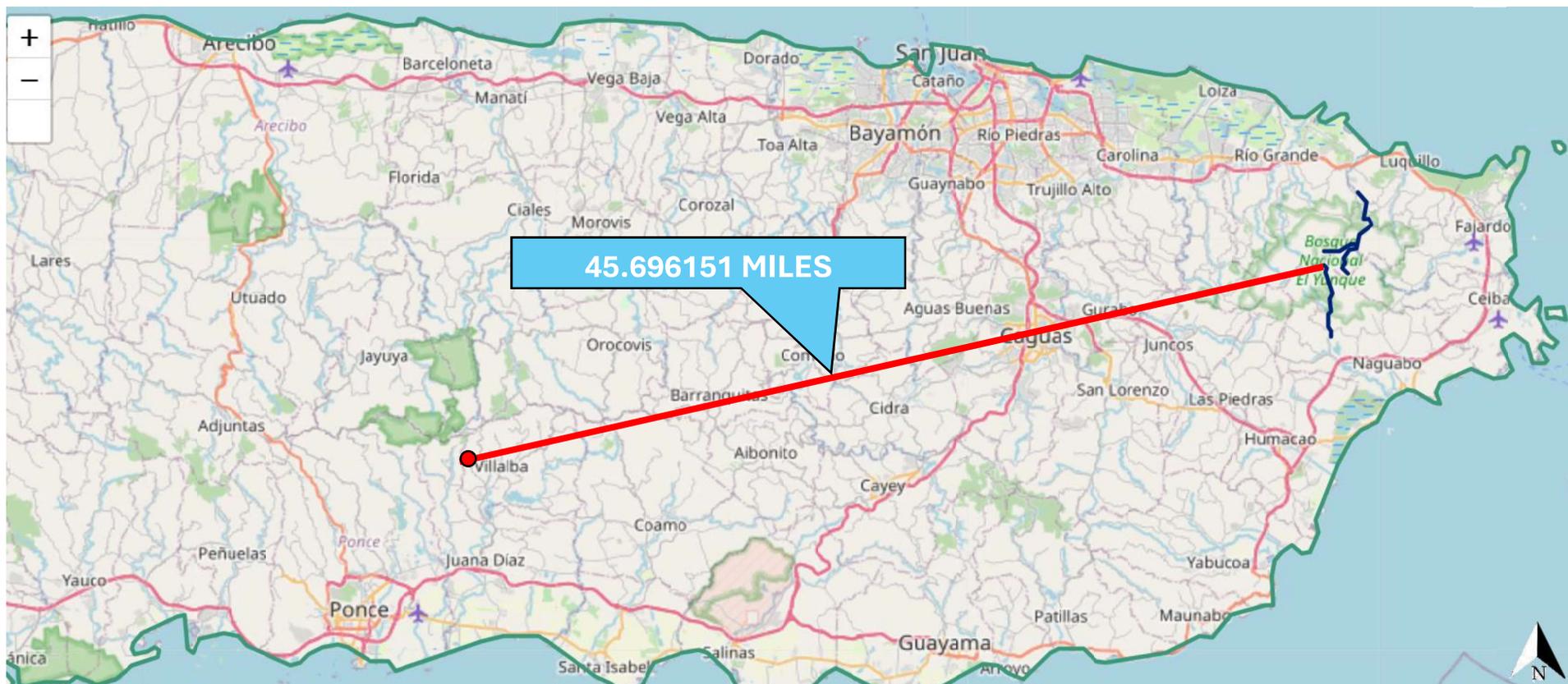


# Figure 12. Wild and Scenic Rivers Map

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996

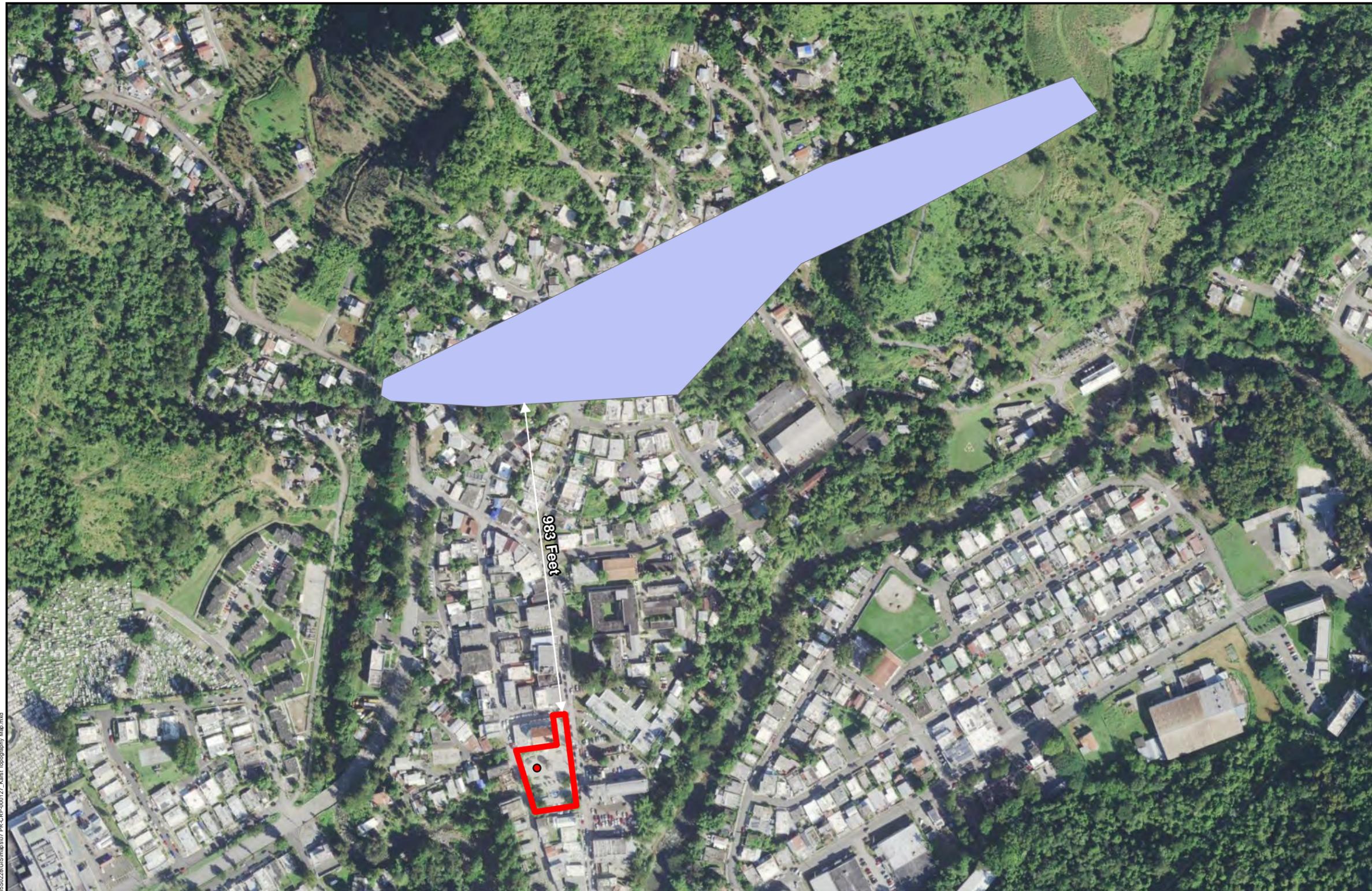
Plaza Pública José Ramón Figueroa Rivera



Accessed in 5/24/2024 from <https://nps.maps.arcgis.com/apps/View/index.html?appid=ff42a57d0aae43c49a88daee0e353142>

### Legend

- Project Site
- Wild and Scenic Rivers

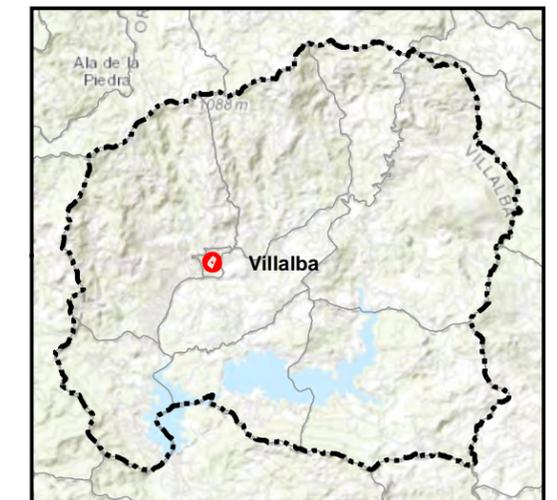


**Legend**

Coordinates: Lat: 18.12844388,  
Lon: -66.49262996

- Puerto Rico Karst
- Project Site

**PUERTO RICO**



File Path: C:\projects\TTRDR\_PRCRP\_City\_Revitalization\_Prog\_105502028\GIS\maps\07\_PRCRP-00127\_Karst\_Topography\_Map.mxd

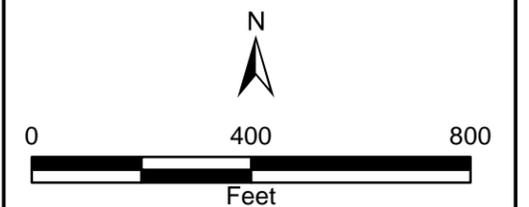


**Figure 13. Karst Topography Map**  
**Mejoras Plaza Pública José Ramón Figueroa Rivera**

**Applicant ID:** PR-CRP-000127  
**Project Coordinates:** Lat: 18.12844388, Lon: -66.49262996  
**Address:** Calle Muñoz Rivera #39  
Villalba, Puerto Rico 00766

Source: CRIM 2014.  
(<https://catastro.crimpr.net/cdprpc/>)  
U.S. Geological Survey 2010.  
(<http://pubs.usgs.gov/of/2010/1104/>).  
ESRI 2023.

Author: Genevieve Kaiser      Date: 3/18/2025



# **Appendix C**

## **Clean Air Act**



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

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

Data is current as of November 30, 2024

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

\* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m<sup>3</sup>) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

PUERTO RICO

Important Notes

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
<b>PUERTO RICO</b>								
Arecibo Municipio	Lead (2008)	Arecibo, PR	1112131415161718192021222324	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18192021222324	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	52,441	72/137

Important Notes

Discover.

Connect.

Ask.

Follow.

2024-11-30

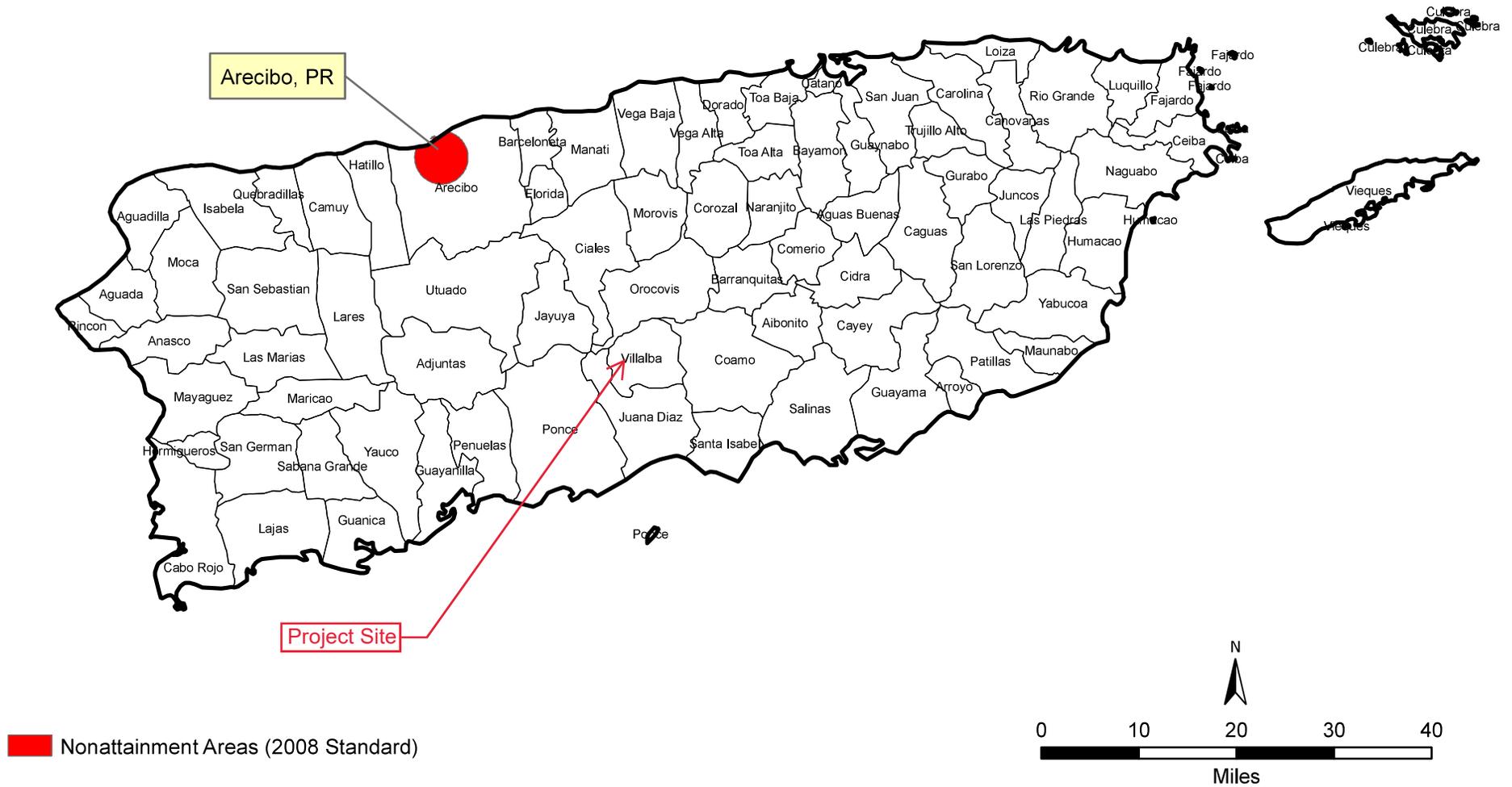
# Puerto Rico Lead Nonattainment Areas (2008 Standard)

07/31/2024

## Plaza Pública José Ramón Figueroa Rivera

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996



Source: <https://www.epa.gov/green-book/green-book-map-download>

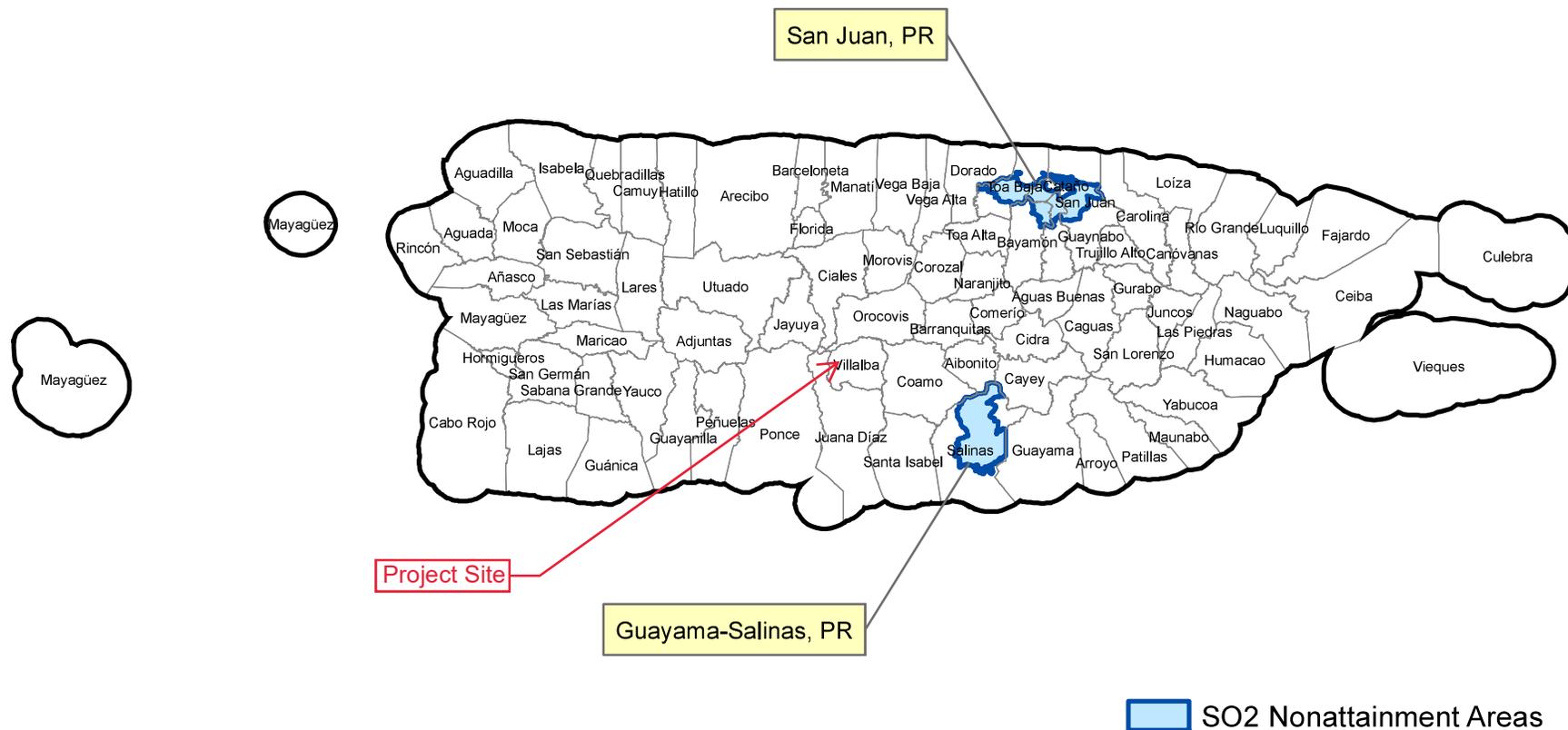
# Puerto Rico SO2 Nonattainment Areas (2010 Standard)

07/31/2024

## Plaza Pública José Ramón Figueroa Rivera

Plaza Pública, Calle Muñoz Rivera #39 Villalba, Puerto Rico 00766

Lat: 18.12844388, Lon: -66.49262996



Source: <https://www.epa.gov/green-book/green-book-map-download>



You are here: EPA Home > Green Book >>National Area and County-Level Multi-Pollutant Information >Criteria Pollutant Nonattainment Summary Report

## Criteria Pollutant Nonattainment Summary Report

Data is current as of July 31, 2024

The NO<sub>2</sub> nonattainment area became a maintenance area on September 22, 1998. 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. All Carbon Monoxide areas were redesignated to maintenance areas as of September 27, 2010.

Mouse over the underlined number of counties to see the area name; click to see the associated counties. | [View Report Footnotes](#)  
[Download National Dataset: dbf](#) | [xls](#) | [Data dictionary \(PDF\)](#)

State(s)	General Area Name	8-Hour Ozone (2015)			8-Hour Ozone (2008)			PM-2.5 (2012)			PM-2.5 (2006)			PM-2.5 (1997)			PM-10 (1987)			SO2 (2010)			SO2 (1971)			LEAD (2008)		
		2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class	2010 Pop.	No. Ctys	Cat./Class
AK	Fairbanks										87	1	Ser															
AZ	Douglas/Paul Spur (Cochise County)														17	1	Mod											
AZ	Hayden/Miami														11	2	Mod	5	2	NonAtt	5	1	NonAtt	5	2	NonAtt		
AZ	Nogales														15	2	Mod	15	1	NonAtt								
AZ	Phoenix-Mesa	3,945	3	Mod	3,850	2	Mod								3,853	2	Ser											
AZ	Rillito (Pima County)														1	1	Mod											
AZ	West Pinal										52	1	Mod				283	1	Ser									
AZ	Yuma	87	1	Mar											101	1	Mod											
CA	Amador and Calaveras Cos (Central Mountain Cos)	46	1	Mar																								
CA	Chico	38	1	Mar	46	1	Mar																					
CA	Imperial County	220	1	Mar	220	1	Mar																					
CA	Los Angeles-South Coast Air Basin	175	1	Mar	175	1	Mod	154	1	Mod	154	1	Mod															
CA		15,703	4	Ext	15,719	4	Ext	15,716	4	Ser	15,716	4	Ser	15,716	4	Mod										9,437	1	NonAtt
CA		1	1	Ser	1	1	Sev5																					
CA		1	2	Mod	3	2	Mod																					
CA	Mariposa and Tuolumne Cos (Southern Mountain Cos)	55	1	Mar																								
CA		18	1	Mod	18	1	Mod																					
CA	Mono County														0	1	Mod											
CA	Nevada County (Western Part)	82	1	Ser	82	1	Ser																					
CA	Owens Valley														7	1	Ser											

		8-Hour Ozone (2015)			8-Hour Ozone (2008)			PM-2.5 (2012)			PM-2.5 (2006)			PM-2.5 (1997)			PM-10 (1987)			SO2 (2010)			SO2 (1971)			LEAD (2008)		
CA	Plumas County							6	1	Ser																		
CA	Sacramento Metro	2,240	6	Ser	2,241	6	Sev5				2,206	5	Mod															
CA	San Diego	3,077	1	Sev5	3,095	1	Sev5																					
CA	San Francisco-Bay Area	6,969	9	Mar	6,973	9	Mar				6,971	9	Mod															
CA	San Joaquin Valley	95	1	Ser	95	1	Sev5																					
		3,842	8	Ext	3,842	8	Ext	3,842	8	Ser	3,842	8	Ser	3,842	8	Ser	126	1	Ser									
CA	San Luis Obispo	1	1	Mar	2	1	Mar																					
CA	Searles Valley																4	1	Mod									
CA	Southeast Desert Modified AQMA																258	1	Ser									
		425	1	Sev5	426	1	Ext										237	1	Mod									
		867	2	Sev5	868	2	Sev5																					
CA	Tuscan Buttes	0	1	Mar	0	1	Mar																					
CA	Ventura County	821	1	Ser	823	1	Ser																					
CA	Yuba City	0	1	Mar																								
CO	Denver-Boulder-Greeley-Ft. Collins-Loveland	3,331	9	Ser	3,330	9	Sev5																					
CT	Greater Connecticut	1,629	5	Ser	1,629	5	Ser																					
DC-MD-VA	Washington	5,136	15	Mod																								
GU	Piti-Cabras																6	1	NonAtt	1	1	NonAtt						
GU	Tanguisson Power Plant																			1	1	NonAtt						
IA	Muscatine County																30	1	NonAtt									
ID	Pocatello													1	2	Mod												
IL-IN-WI	Chicago-Joliet-Napier	9,075	11	Mod																								
IN	Fort Wayne-Huntington-Auburn																21	1	NonAtt									
KS	Salina																									0	1	NonAtt
KY	Henderson-Webster Counties																7	2	NonAtt									
KY-IN	Louisville	1,061	<sup>5</sup> [Split]	Mod																								
LA	Evangeline Parish																0	1	NonAtt									
LA	New Orleans																36	1	NonAtt									

		8-Hour Ozone (2015)			8-Hour Ozone (2008)			PM-2.5 (2012)			PM-2.5 (2006)			PM-2.5 (1997)			PM-10 (1987)			SO2 (2010)			SO2 (1971)			LEAD (2008)		
MA-NH	Boston-Worcester-Manchester				17	1	Mar																					
MD	Baltimore	2,663	6	Mod	2,663	6	Mod													990	2	NonAtt						
MI	Allegan County	47	1	Mod																								
MI	Benton Harbor	157	1	Mod																								
MI	Detroit-Ann Arbor																			254	1	NonAtt						
																				52	1	NonAtt						
MI	Muskegon	147	1	Mod																								
MN	Minneapolis-St. Paul																									9	1	NonAtt
MO	Iron, Dent, and Reynolds Counties																									0	3	NonAtt
MO	New Madrid County																			0	1	NonAtt						
MO-IL	St. Louis																			0	1	NonAtt						
		2,488	8	Mod																						5	1	NonAtt
MT	Billings/Laurel																						7	1	NonAtt			
MT	Lame Deer													1	1	Mod												
MT	Polson (Lake County)													4	1	Mod												
MT	Ronan (Lake County)													3	1	Mod												
NV	Las Vegas	1,892	1	Mod																								
NY	Jamestown				135	1	Mar																					
NY	St. Lawrence County																			12	1	NonAtt						
NY-NJ-CT	New York-N. New Jersey-Long Island	20,217	24	Ser	20,217	24	Sev5							1,586	1	Mod												
OH	Canton-Massillon																									6	1	NonAtt
OH	Cleveland-Akron-Elyria	2,780	7	Mod																								
OR	Klamath Falls										47	1	Mod															
PA	Clearfield and Indiana Counties																			93	2	NonAtt						
PA	Lancaster				519	1	Mar																					
PA	Pittsburgh-New Castle				2,356	7	Mar	1,223	1	Mod	21	1	Mod	21	1	Mod				15	1	NonAtt				18	1	NonAtt
																				127	1	NonAtt	5	1	NonAtt			
PA	Reading																									29	1	NonAtt
					411	1	Mar																			19	1	NonAtt
PA	Warren County																			18	1	NonAtt						
PA-NJ	Allentown-Bethlehem-Easton				712	3	Mar																					

		8-Hour Ozone (2015)			8-Hour Ozone (2008)			PM-2.5 (2012)			PM-2.5 (2006)			PM-2.5 (1997)			PM-10 (1987)			SO2 (2010)			SO2 (1971)			LEAD (2008)		
PA-NJ-DE-MD	Philadelphia-Wilmington-Atlantic City				197	1	Mar																					
		7,437	16	Ser	7,437	16	Mar																					
PR	Arecibo																									32	1	NonAtt
PR	Guayama-Salinas																			23	1	NonAtt						
PR	San Juan																			275	5	NonAtt						
TN	Johnson City-Kingsport-Bristol																			15	1	NonAtt						
TX	Dallas-Fort Worth	6,202	9	Ser	6,280	10	Sev5																					
TX	Fairfield																			4	2	NonAtt						
TX	Houston-Sugar Land-Baytown	5,773	6	Ser	5,892	8	Sev5																					
TX	Howard County																			0	1	NonAtt						
TX	Hutchinson County																			15	1	NonAtt						
TX	Mount Pleasant																			0	1	NonAtt						
TX	Navarro County																			2	1	NonAtt						
TX	San Antonio	1,715	1	Ser																								
TX	Tatum																			2	2	NonAtt						
TX-NM	El Paso-Las Cruces													3	1	Mod	649	1	Mod									
		813	2	Mar																								
UT	Provo	516	1	Mar				518	1	Ser																		
UT	Salt Lake City	1,616	4	Mod				1,665	5	Ser																1,030	1	NonAtt
UT	Tooele County																									58	1	NonAtt
UT	Uinta Basin	47	2	Mar																								
VA	Giles County																			0	1	NonAtt						
WA	Whatcom County																			0	1	NonAtt						
WI	Milwaukee-Racine	1,648	5	Mod																								
WI	Sheboygan	68	1	Mod																								
WV-OH	Parkersburg-Marietta																			4	2	NonAtt						
WY	Upper Green River Basin				11	3	Mar																					

The area population is displayed in 1000's. 'Cat.' is Category.

**Area Name:**

The "State(s) Area Name" column contains a common or general name for the nonattainment areas on the row, but may not reflect the exact name of any area on the row. This column cannot be exact since the nonattainment area for one pollutant may not contain the same counties, cities, or states as the nonattainment area for another pollutant on the same row. To see the area name or click on them to see the associated counties. The abbreviations listed in the "State(s)" column reflect all states identified in row. However, some states on a row may be nonattainment for some pollutants and not for others in the general area.

**Split Area:**

'Split' in the No. Ctys column indicates that the multi-state area has states that have been redesignated but the area does not become a maintenance area until all states in the area are redesignated. The whole area population is displayed in this report. Clicking on a "Split" No. Ctys will display information for the state(s) that have not been redesignated.

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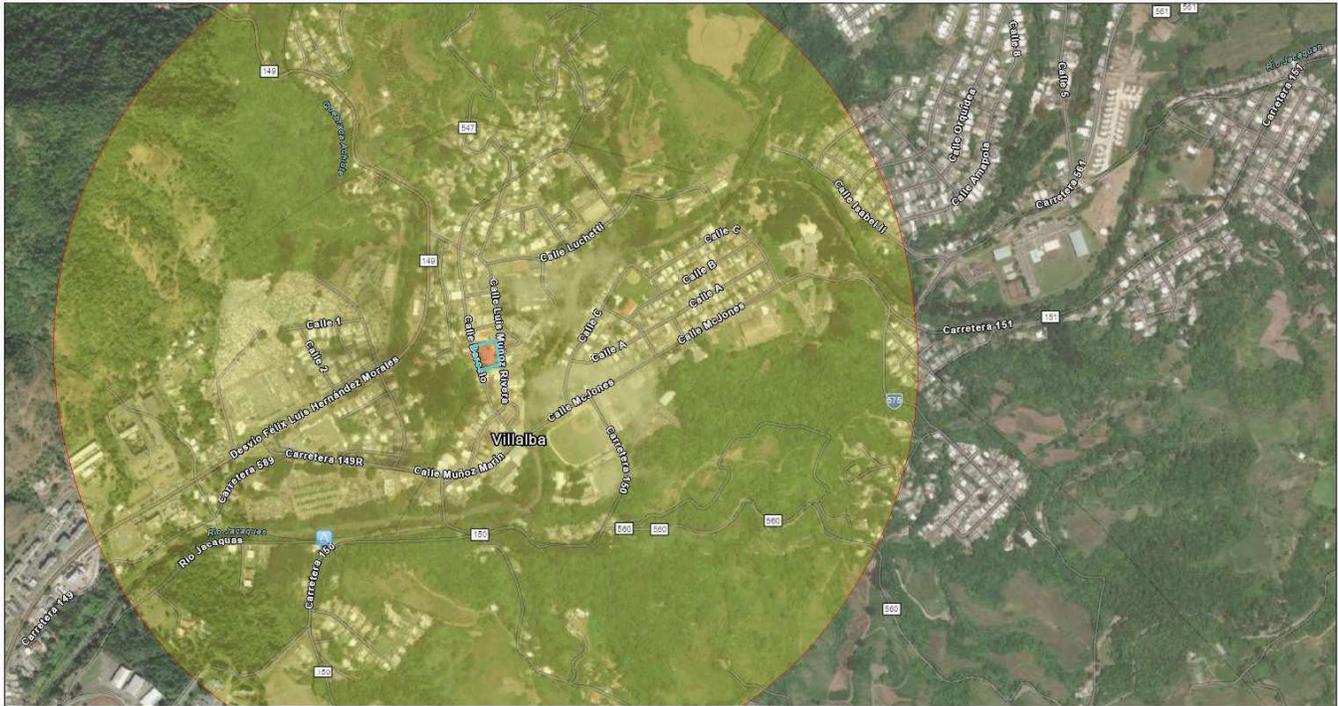
2024-07-31

**Appendix D**  
**Contamination and**  
**Toxic Substances**

# NEPAssist Report

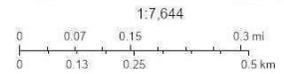
## Plaza José Ramón Figueroa Rivera

A3 Landscape



June 5, 2024

- EPA Water Monitors (STORET)
- Plaza José Ramón Figueroa Rivera
- Project Buffer
- Diesel Particulate Matter
- Less than 50%ile



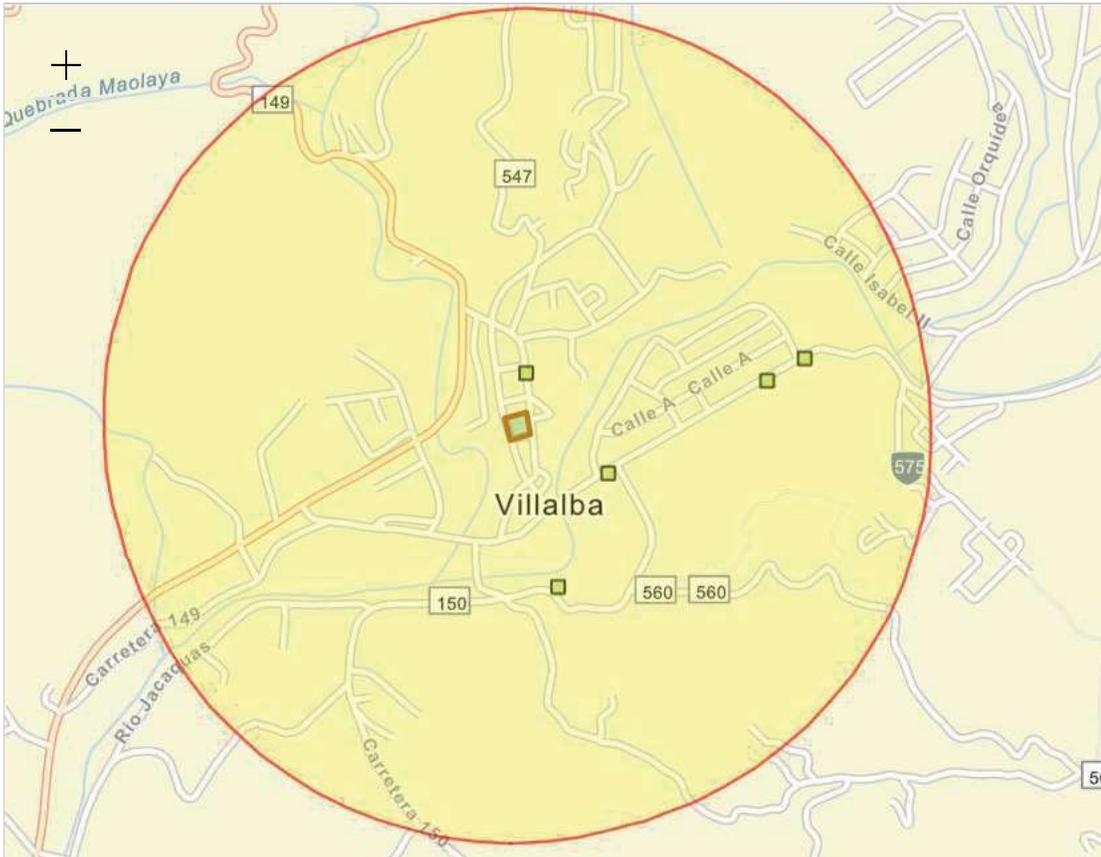
U.S. Environmental Protection Agency, Headquarters, Maxar, U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS), Esri Community Maps Contributors, Esri, TomTom, Garmin, FourSquare, SafeGraph, GeoTechnologies, Inc.

Input Coordinates: 18.128482,-66.492814,18.128604,-66.492327,18.128135,-66.492263,18.128019,-66.492671,18.128482,-66.492814

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?	no
Within 3000 feet of a waterbody?	no
Within 3000 feet of a stream?	yes
Within 3000 feet of an NWI wetland?	Available Online
Within 3000 feet of a Brownfields site?	yes

Within 3000 feet of a Superfund site?	no
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 Chemical Data Reporting (CDR) site?	no
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)?	no
Within 3000 feet of an EFH Area Protected from Fishing (EFHA)?	no
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?	no
Within 3000 feet of an ESA-designated Critical Habitat river, stream or water feature per U.S. Fish & Wildlife Service?	no

Created on: 6/5/2024 10:18:34 AM



Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, Geo... Powered by Esri (http://www.esri.com/)

Report question: **Within 3000 of a Hazardous waste site? yes**

Modify question by entering a new buffer distance and unit for the selected study area:

Name	Distance
<input type="checkbox"/> TEXACO PR INC VILLALBA SS (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRR000009258)	2113.80 feet
<input type="checkbox"/> LATAS LIBBYS INC (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRD091008680)	1808.80 feet
<input type="checkbox"/> MEDTRONIC PR INC (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRD000692699)	1150.17 feet
<input type="checkbox"/> SUPER AHORROS #2343 (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRR000022004)	288.53 feet
<input type="checkbox"/> CHEVRON STATION (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRD981184658)	2113.80 feet
<input type="checkbox"/> DEPT OF ED - FRANCISCO ZAYAS SANTANA (VILLALBA,PR) (https://ofmpub.epa.gov/enviro/rcrainfoquery_3.facility_information?pgm_sys_id=PRD987374808)	648.81 feet

**You are here: EPA Home** <[>>>](https://epa.gov/www.epa.gov/)**Cleanups**  
<[>>>](https://epa.gov/www.epa.gov/cleanups/)Cleanups In My Community (CIMC)

[CONTACT US](https://www.epa.gov/cleanups/forms/contact-us)

---

# Property Details for Former Farmers Cooperative Can Plant

## On this page:

- Profile Information
- Property Location
- Property Progress
- CAs Associated with this Property
- Assessment Activities at this Property
- Climate Adaption and Mitigation - Planning or Assessment
- Contaminants and Media
- Cleanup Activities
- Climate Adaption and Mitigation - Demolition or Cleanup
- Institutional & Engineering Controls
- Redevelopment and Other Leveraged Accomplishments
- Climate Adaption and Mitigation - Redevelopment
- Additional Property Attributes

[Legal Notices](https://www.epa.gov/cleanups/cimc-legal-notices)

---

## Profile Information

Property Alias

Property Owner **Government**

ACRES Property ID **135531**

Property Address **17 Luchetti Street Villalba, PR 00766**

Size **.8**

Parcel Numbers

Latitude/Longitude **18.2970921 / -66.4957071**

Congressional District **1**

Property Contact **Devine, Alison**

**Devine.Alison@epa.gov**

**212-637-4158**

## Property Location

## Property Progress

Assessment	<input checked="" type="checkbox"/>
Clean Up	<input type="checkbox"/>
Institutional Controls in Place	<input type="checkbox"/>
Engineering Controls in Place	<input type="checkbox"/>
Ready for Anticipated Use	<input type="checkbox"/>
Redevelopment Underway	<input type="checkbox"/>

## CAs Associated with this Property

CA Name	CA #	State	Type	Announcement Year
R2 TBA - Puerto Rico (STAG Funded)	n/a	PR	TBA	2004

## Assessment Activities at this Property

Activity	EPA Funding	Start Date	Completion Date	CA	Accomplishment Counted?	Counted When?
Phase I Environmental Assessment	\$11,410.00	10/05/2010	04/01/2011	R2 TBA - Puerto Rico (STAG Funded)	Y	FY12

Is Cleanup Necessary? **Yes**  
EPA Assessment Funding: **\$11,410.00**  
Leveraged Funding:  
Total Funding: **\$11,410.00**

[↑ Top of Page](#)

---

## Climate Adaption and Mitigation - Planning or Assessment

There is no data for Climate Adaption and Mitigation - Planning or Assessment.

[↑ Top of Page](#)

---

## Contaminants and Media

Contaminant Found  
Media Affected  
**Unknown**

Remediating Action for Contaminants  
Remediating Action for Media  
**NOT Cleaned up**

[↑ Top of Page](#)

---

## Cleanup Activities

There are no current cleanup activities.

Cleanup/Treatment Implemented:  
Cleanup/Treatment Categories:  
Addl Cleanup/Treatment info:  
Address of Data Source:

[↑ Top of Page](#)

---

## Climate Adaption and Mitigation - Demolition or Cleanup

There is no data for Climate Adaption and Mitigation - Demolition or Cleanup.

# Institutional and Engineering Controls

Indicate whether Institutional Controls are required

Categories of Controls

Additional Institutional Controls Information

Address of Data Source (URL if available)

Are Institutional Controls in Place **No**

Date Institutional Controls were put in place

Indicate whether Engineering Controls are required **Yes**

Categories of Controls **Security (e.g., Guard, Fences)**

Additional Engineering controls information

Address of Data Source (URL if available)

Indicate whether Engineering Controls are in place **No**

Date Engineering Controls were put in place

# Redevelopment and Other Leveraged Accomplishments

There are no current redevelopment activities.

Number of Redevelopment Jobs Leveraged:

Actual Acreage of Greenspace Created:

Leveraged Funding:

# Climate Adaption and Mitigation – Redevelopment

There is no data for Climate Adaption and Mitigation – Redevelopment

[↑ Top of Page](#)

## Additional Property Attributes

Property Highlights

**The Phase I ESA identified RECs associated with historic structures that previously existed on Site, historic use and potential existence of the former onsite septic tank, potential use of hazardous materials including lead based paints, asbestos containing materials, mercury and PCBs in building materials, and the structural integrity of the onsite structure. Leaking underground storage tanks from nearby properties and the use of pesticides and herbicides to manage the vegetation adjacent to the subject property were also listed as RECs.**

Predominant Past Usage

**Former Use: Former pigeon pea canning plant deteriorating internally. Currently owned by the Municipality of Villalba.  
Commercial (.8)**

What types of funding are being used on this property?

State and Tribal Program Information

Date No Further Action Letter Received

Date Letter/Signed Report Received from a Qualified Professional

Other Cleanup Documentation

[↑ Top of Page](#)



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<<https://www.epa.gov/grants>>

## No FEAR Act Data

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## Follow.





# Detailed Facility Report

Facility Summary  
**DEPT OF ED - FRANCISCO ZAYAS SANTANA**  
**PR-150 KM 0.1 URB LA VEGA, VILLALBA, PR 00766**  
FRS (Facility Registry Service) ID: 110004889817  
EPA Region: 02  
Latitude: 18.127341  
Longitude: -66.490589  
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	--
<b>Compliance Status</b>	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, (PRD987374808)  
Safe Drinking Water Act (SDWA): No Information

## Other Regulatory Reports

Air Emissions Inventory (EIS): No Information  
Greenhouse Gas Emissions (eGGRT): No Information  
Toxic Releases (TRI): No Information  
Compliance and Emissions Data Reporting Interface (CEDRI): No Information

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

Facility/System Characteristics

**Facility/System Characteristics**

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004889817					N	18.127341	-66.490589
RCRAInfo	RCRA	PRD987374808	Other	Inactive ( )			N	18.127341	-66.490589

**Facility Address**

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004889817	DEPT OF ED - FRANCISCO ZAYAS SANTANA	PR-150 KM 0.1 URB LA VEGA, VILLALBA, PR 00766	Villalba Municipio
RCRAInfo	RCRA	PRD987374808	DEPT OF ED - FRANCISCO ZAYAS SANTANA	CARR 150 KM 0.1 URB LA VEGA, VILLALBA, PR 00766	Villalba 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	PRD987374808	No	07/13/2024	0	07/12/2024

**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: PRD987374808)		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	04/01-06/30/24
Facility-Level Status		No Violation Identified											
Violation		Agency											

## Informal Enforcement Actions

Last 5 Years

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

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

## Formal Enforcement Actions

Last 5 Years

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

## Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

## Pollutants

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

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

No data records returned

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

Chemical Name
---------------

No data records returned

## Community

## Environmental Justice

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



### Potential Environmental Justice Concerns

US Territory

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

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

### EJScreen Indexes Shown

Index Type Supplemental (default) ⌵

### Related Reports

EJScreen Community Report

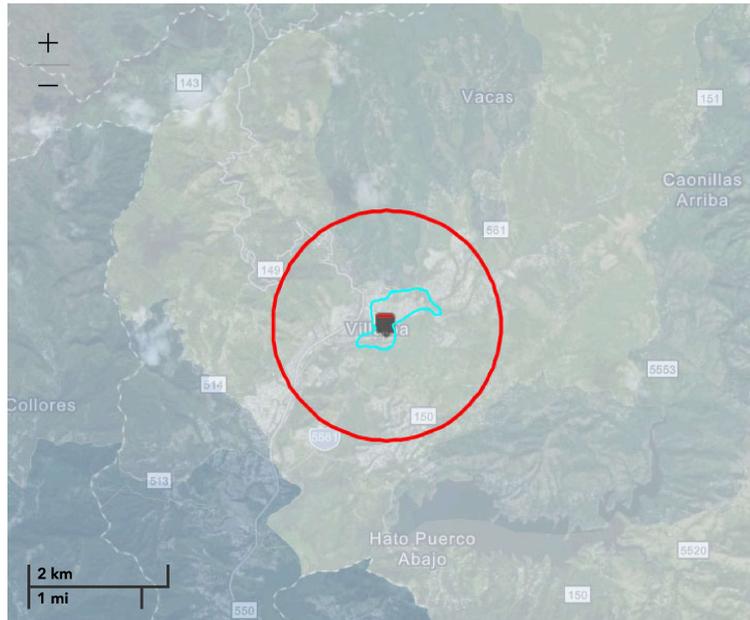
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Census Block Group ID: 721497204001	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
<b>Count of Indexes At or Above 90th Percentile</b>	<b>8</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>0</b>	<b>3</b>
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	20	20	30
Air Toxics Cancer Risk	● 99	● 91	● 99	● 99	0	● 99
Air Toxics Respiratory Hazard Index	19	29	39	0	19	89
Toxic Releases to Air	● 99	● 99	● 99	89	84	● 96
Traffic Proximity	● 92	83	● 98	52	33	67
Lead Paint	● 91	79	● 96	61	42	78
Risk Management Plan (RMP) Facility Proximity	● 99	● 98	● 99	78	75	89
Hazardous Waste Proximity	77	75	85	23	23	35
Superfund Proximity	● 91	● 90	● 94	11	10	16
Underground Storage Tanks (UST)	● 99	89	● 99	88	65	● 92
Wastewater Discharge	● 95	● 91	● 95	37	21	37

Map Display Based on:  US  State

Display Map Layer Summary - Number of Indexes ⌵

Facility 1-mile Radius  Facility Census Block Group



# Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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	7,478
Population Density	2,382/sq.mi.
Housing Units in Area	2,815

General Statistics (ACS (American Community Survey))	
Total Persons	5,314
Percent People of Color	100%
Households in Area	1,799
Households on Public Assistance	66
Persons With Low Income	4,214
Percent With Low Income	80%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.127341
Center Longitude	-66.490589
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	655 (36.41%)
\$15,000 - \$25,000	324 (18.01%)
\$25,000 - \$50,000	515 (28.63%)
\$50,000 - \$75,000	181 (10.06%)
Greater than \$75,000	124 (6.89%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	520 (7%)
Minors 17 years and younger	2,008 (27%)
Adults 18 years and older	5,471 (73%)
Seniors 65 years and older	888 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	6,095 (82%)
African-American	659 (9%)
Hispanic-Origin	7,451 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	24 (0%)
Other/Multiracial	695 (9%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	478 (13.5%)
9th through 12th Grade	179 (5.05%)
High School Diploma	1,406 (39.7%)
Some College/2-year	410 (11.58%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	755 (21.32%)



# Detailed Facility Report

## Facility Summary

**MEDTRONIC PR INC**

**PR-14,9 KM 56.3, VILLALBA, PR 00766**

**FRS (Facility Registry Service) ID:** 110007805107

**EPA Region:** 02

**Latitude:** 18.126949

**Longitude:** -66.497715

**Locational Data Source:** FRS

**Industries:** Computer and Electronic Product 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)	1
Formal Enforcement Actions (5 years)	1
Penalties from Formal Enforcement Actions (5 years)	\$117,998
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	07/22/2016
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 (PR0000007214900005)

**Clean Water Act (CWA):** No Information

**Resource Conservation and Recovery Act (RCRA):** Active SQG, (PRD000692699)

**Safe Drinking Water Act (SDWA):** No Information

Go To Enforcement/Compliance Details

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

## Other Regulatory Reports

**Air Emissions Inventory (EIS):** No Information

**Greenhouse Gas Emissions (eGGRT):** No Information

**Toxic Releases (TRI):** 00766MDTRNRROAD1

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

## Facility/System Characteristics

### Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007805107					N	18.126949	-66.497715
ICIS-Air	CAA	PR0000007214900005	Minor Emissions	Operating	CAAMACT, CAASIP		N	18.1269487	-66.4977152
TRI	EP313	00766MDTRNRROAD1	Toxics Release Inventory	Last Reported for 1995			N	18.125	-66.491667
RCRAInfo	RCRA	PRD000692699	SQG	Active (H)			N	18.127491	-66.497247

## Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007805107	MEDTRONIC PR INC	PR-149 KM 56.3, VILLALBA, PR 00766	Villalba Municipio
ICIS-Air	CAA	PR0000007214900005	MEDTRONIC MEDREL	CARR. 149 KM. 56, VILLALBA, PR 00766	Villalba Municipio
TRI	EP313	00766MDTRNRROAD1	MEDTRONIC PR INC	RD 149 KM 56.3, VILLALBA, PR 00766	Villalba Municipio
RCRAInfo	RCRA	PRD000692699	MEDTRONIC PR OPERATIONS CO - MVC VILLALBA	RD 149 KM 56.3, VILLALBA, PR 00766	Villalba Municipio



### Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
CAA	ICIS-Air	PR000007214900005	Notice of Violation	EPA	07/29/2021

*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
CAA	ICIS-Air	112	AIR/PR000007214900005	Administrative - Formal	02-2023-1210	EPA	Medtronic Puerto Rico, Inc.	04/13/2023	1	04/13/2023	\$117,998	\$0	--	\$0	\$3,000

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

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

### e-Manifest Hazardous Waste History (Public)

#### Hazardous Waste Shipped in Kilograms by Year (Through 4/13/2024)

Source ID	Waste Description	2021	2022	2023	2024
PRD000692699	Hazardous Waste	860	2,110	920	412
PRD000692699	Acute Hazardous Waste	0	0	0	0

Source ID	Waste Description	2021	2022	2023	2024
PRD000692699	Pharmaceutical HazardousWaste	0	0	0	0

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

Community

## Environmental Justice

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

### ! Potential Environmental Justice Concerns

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

### EJScreen Indexes Shown

### Related Reports

EJScreen Community Report

Index Type Supplemental (default) ⌵

[Download Data](#)

Census Block Group ID: 721497204002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
<b>Count of Indexes At or Above 90th Percentile</b>	<b>8</b>	<b>6</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>3</b>
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	22	16	30
Air Toxics Cancer Risk	1 99	1 96	1 99	1 99	0	1 99
Air Toxics Respiratory Hazard Index	21	27	39	0	17	89
Toxic Releases to Air	1 99	1 99	1 99	1 94	86	1 96
Traffic Proximity	1 95	1 93	1 98	59	52	67
Lead Paint	1 94	76	1 96	73	38	78
Risk Management Plan (RMP) Facility Proximity	1 99	1 99	1 99	82	77	88
Hazardous Waste Proximity	80	77	84	28	25	35
Superfund Proximity	1 94	1 91	1 94	12	12	16
Underground Storage Tanks (UST)	1 99	80	1 99	1 92	62	1 92
Wastewater Discharge	1 94	1 92	1 95	22	24	37

Map Display Based on:  US  State

Display Map Layer Summary - Number of Indexes ⌵

Facility 1-mile Radius  Facility Census Block Group





Earthstar Geographics | Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI... 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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	6,636
Population Density	2,179/sq.mi
Housing Units in Area	2,520

General Statistics (ACS (American Community Survey))	
Total Persons	5,492
Percent People of Color	100%
Households in Area	1,921
Households on Public Assistance	66
Persons With Low Income	4,259
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.126949
Center Longitude	-66.497715
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	811 (42.15%)
\$15,000 - \$25,000	297 (15.44%)
\$25,000 - \$50,000	482 (25.05%)
\$50,000 - \$75,000	199 (10.34%)
Greater than \$75,000	135 (7.02%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	423 (6%)
Minors 17 years and younger	1,763 (27%)
Adults 18 years and older	4,873 (73%)
Seniors 65 years and older	871 (13%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,467 (82%)
African-American	596 (9%)
Hispanic-Origin	6,615 (100%)
Asian/Pacific Islander	7 (0%)
American Indian	19 (0%)
Other/Multiracial	547 (8%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	500 (13.48%)
9th through 12th Grade	207 (5.58%)
High School Diploma	1,452 (39.15%)
Some College/2-year	425 (11.46%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	876 (23.62%)



# Detailed Facility Report

## Facility Summary

**LATAS LIBBYS INC**

**PR-151 KM 0.4, VILLALBA, PR 00766**

**FRS (Facility Registry Service) ID:** 110007807061

**EPA Region:** 02

**Latitude:** 18.12924

**Longitude:** -66.48716

**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	06/05/1992
<b>Compliance Status</b>	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, (PRD091008680)

**Safe Drinking Water Act (SDWA):** No Information

## Other Regulatory Reports

**Air Emissions Inventory (EIS):** No Information

**Greenhouse Gas Emissions (eGGRT):** No Information

**Toxic Releases (TRI):** No Information

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



## Informal Enforcement Actions

Last 5 Years

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

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

## Formal Enforcement Actions

Last 5 Years

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

No data records returned

## Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

## Air Quality Nonattainment Areas

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

## Pollutants

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

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

No data records returned

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

Chemical Name
---------------

No data records returned

## Community

## Environmental Justice

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



### Potential Environmental Justice Concerns

US Territory

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

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

### EJScreen Indexes Shown

Index Type

Supplemental (default) ⌵

### Related Reports

EJScreen Community Report

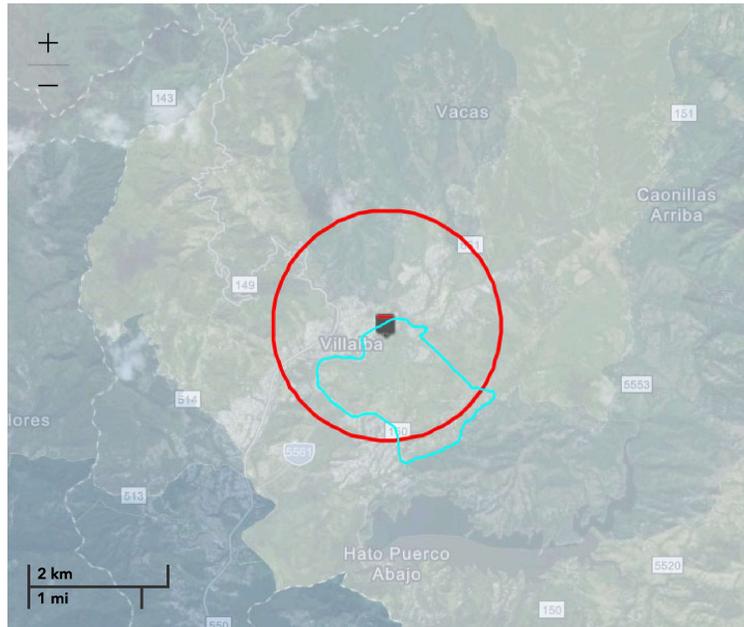
[Download Data](#)

Supplemental Indexes	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
<b>Count of Indexes At or Above 90th Percentile</b>	<b>5</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>3</b>
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	30	20	30
Air Toxics Cancer Risk	55	● 94	● 99	89	● 97	● 99
Air Toxics Respiratory Hazard Index	39	28	39	89	18	89
Toxic Releases to Air	● 99	● 99	● 99	● 96	83	● 96
Traffic Proximity	84	77	● 98	36	27	67
Lead Paint	89	85	● 96	53	50	78
Risk Management Plan (RMP) Facility Proximity	● 99	● 98	● 99	88	71	89
Hazardous Waste Proximity	83	72	85	33	21	35
Superfund Proximity	● 94	89	● 94	14	9	16
Underground Storage Tanks (UST)	● 98	● 95	● 99	89	76	● 92
Wastewater Discharge	● 95	● 90	● 95	24	20	37

Map Display Based on:  US  State

Display Map Layer

Facility 1-mile Radius  Facility Census Block Group



# Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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/dfp-data-dictionary#demographic>>.

General Statistics (U.S. Census)	
Total Persons	7,362
Population Density	2,373/sq.mi.
Housing Units in Area	2,757

General Statistics (ACS (American Community Survey))	
Total Persons	5,387
Percent People of Color	99%
Households in Area	1,787
Households on Public Assistance	61
Persons With Low Income	4,178
Percent With Low Income	78%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.12924
Center Longitude	-66.48716
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	573 (32.05%)
\$15,000 - \$25,000	337 (18.85%)
\$25,000 - \$50,000	547 (30.55%)
\$50,000 - \$75,000	183 (10.23%)
Greater than \$75,000	148 (8.28%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	507 (7%)
Minors 17 years and younger	1,959 (27%)
Adults 18 years and older	5,403 (73%)
Seniors 65 years and older	874 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,975 (81%)
African-American	649 (9%)
Hispanic-Origin	7,333 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	21 (0%)
Other/Multiracial	711 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	448 (12.6%)
9th through 12th Grade	168 (4.72%)
High School Diploma	1,357 (38.16%)
Some College/2-year	422 (11.87%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	805 (22.64%)



# Detailed Facility Report

## Facility Summary

**CHEVRON STATION**

**PR-151 KM 0.5, VILLALBA, PR 00766**

**FRS (Facility Registry Service) ID:** 110007809176

**EPA Region:** 02

**Latitude:** 18.129701

**Longitude:** -66.486348

**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, (PRD981184658)

**Safe Drinking Water Act (SDWA):** No Information

## Other Regulatory Reports

**Air Emissions Inventory (EIS):** No Information

**Greenhouse Gas Emissions (eGGRT):** No Information

**Toxic Releases (TRI):** No Information

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

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

Facility/System Characteristics

**Facility/System Characteristics**

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007809176					N	18.129701	-66.486348
RCRAInfo	RCRA	PRD981184658	Other	Inactive ( )			N	18.129701	-66.486348

**Facility Address**

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007809176	CHEVRON STATION	PR-151 KM 0.5, VILLALBA, PR 00766	Villalba Municipio
RCRAInfo	RCRA	PRD981184658	CHEVRON STATION	ROAD 151 KM .5, VILLALBA, PR 00766	Villalba 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	PRD981184658	No	07/13/2024	0	07/12/2024

**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: PRD981184658)		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	04/01-06/30/24
<b>Facility-Level Status</b>		No Violation Identified											
<b>Violation</b>	<b>Agency</b>												

## Informal Enforcement Actions

Last 5 Years

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

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

## Formal Enforcement Actions

Last 5 Years

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

## Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
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No data records returned

## Air Quality Nonattainment Areas

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

## Pollutants

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

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

No data records returned

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

Chemical Name
---------------

No data records returned

## Community

## Environmental Justice

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



### Potential Environmental Justice Concerns

US Territory

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

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

### EJScreen Indexes Shown

Index Type

Supplemental (default) ⌵

### Related Reports

EJScreen Community Report

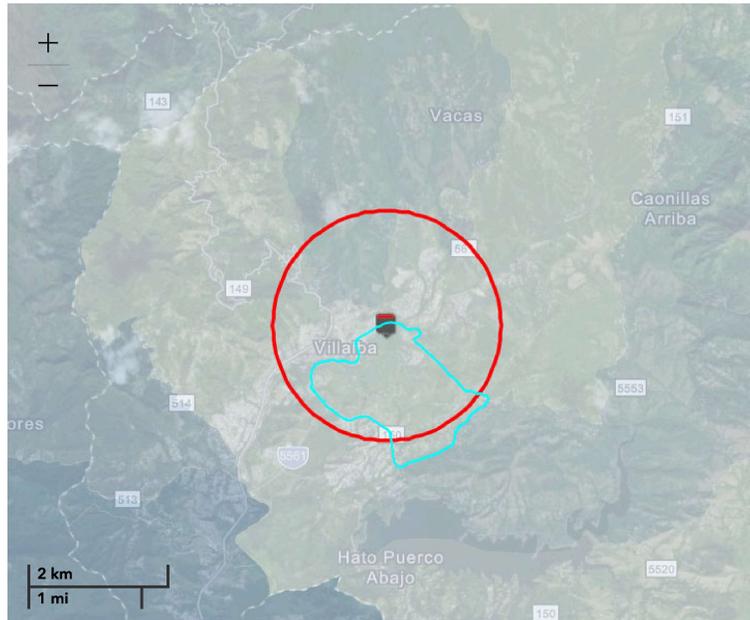
[Download Data](#)

Census Block Group ID: 721497203002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
<b>Count of Indexes At or Above 90th Percentile</b>	<b>5</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>3</b>
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	30	20	30
Air Toxics Cancer Risk	55	● 94	● 99	89	● 97	● 99
Air Toxics Respiratory Hazard Index	39	28	39	89	18	89
Toxic Releases to Air	● 99	● 99	● 99	● 96	83	● 96
Traffic Proximity	84	77	● 98	36	27	67
Lead Paint	89	85	● 96	53	50	78
Risk Management Plan (RMP) Facility Proximity	● 99	● 98	● 99	88	71	89
Hazardous Waste Proximity	83	72	85	33	21	35
Superfund Proximity	● 94	89	● 94	14	9	16
Underground Storage Tanks (UST)	● 98	● 95	● 99	89	76	● 92
Wastewater Discharge	● 95	● 90	● 95	24	20	37

Map Display Based on:  US  State

Display Map Layer

Facility 1-mile Radius  Facility Census Block Group



# Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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	7,309
Population Density	2,347/sq.mi.
Housing Units in Area	2,724

General Statistics (ACS (American Community Survey))	
Total Persons	5,398
Percent People of Color	99%
Households in Area	1,783
Households on Public Assistance	62
Persons With Low Income	4,162
Percent With Low Income	78%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.129701
Center Longitude	-66.486348
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	555 (31.13%)
\$15,000 - \$25,000	338 (18.96%)
\$25,000 - \$50,000	552 (30.96%)
\$50,000 - \$75,000	184 (10.32%)
Greater than \$75,000	154 (8.64%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	504 (7%)
Minors 17 years and younger	1,941 (27%)
Adults 18 years and older	5,369 (73%)
Seniors 65 years and older	861 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,930 (81%)
African-American	641 (9%)
Hispanic-Origin	7,281 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	21 (0%)
Other/Multiracial	711 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	441 (12.39%)
9th through 12th Grade	165 (4.64%)
High School Diploma	1,343 (37.75%)
Some College/2-year	426 (11.97%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	816 (22.93%)



# Detailed Facility Report

## Facility Summary

**TEXACO PR INC VILLALBA SS**

**PR-151 KM 0.5, VILLALBA, PR 00766**

**FRS (Facility Registry Service) ID:** 110007821250

**EPA Region:** 02

**Latitude:** 18.129701

**Longitude:** -66.486348

**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	--
<b>Compliance Status</b>	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, (PRR000009258)
- Safe Drinking Water Act (SDWA):** No Information

## Other Regulatory Reports

- Air Emissions Inventory (EIS):** No Information
- Greenhouse Gas Emissions (eGGRT):** No Information
- Toxic Releases (TRI):** No Information
- Compliance and Emissions Data Reporting Interface (CEDRI):** No Information



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+
	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
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No data records returned

## Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

## Pollutants

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

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

No data records returned

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

Chemical Name
---------------

No data records returned

## Community

# Environmental Justice

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

## Potential Environmental Justice Concerns

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

### EJScreen Indexes Shown

Index Type Supplemental (default) ▾

### Related Reports

EJScreen Community Report

[Download Data](#)

Census Block Group ID: 721497203002	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	5	5	8	1	1	3
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	30	20	30
Air Toxics Cancer Risk	55	94	99	89	97	99
Air Toxics Respiratory Hazard Index	39	28	39	89	18	89
Toxic Releases to Air	99	99	99	96	83	96
Traffic Proximity	84	77	98	36	27	67
Lead Paint	89	85	96	53	50	78
Risk Management Plan (RMP) Facility Proximity	99	98	99	88	71	89
Hazardous Waste Proximity	83	72	85	33	21	35
Superfund Proximity	94	89	94	14	9	16
Underground Storage Tanks (UST)	98	95	99	89	76	92
Wastewater Discharge	95	90	95	24	20	37

Map Display Based on:  US  State

Display Map Layer Summary - Number of Indexes ▾

Facility 1-mile Radius  Facility Census Block Group



## Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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>>.

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Total Persons	7,309
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Geography	
Radius of Selected Area	1 mi.
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Land Area	100%
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Children 5 years and younger	504 (7%)
Minors 17 years and younger	1,941 (27%)
Adults 18 years and older	5,369 (73%)
Seniors 65 years and older	861 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,930 (81%)
African-American	641 (9%)
Hispanic-Origin	7,281 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	21 (0%)
Other/Multiracial	711 (10%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	441 (12.39%)
9th through 12th Grade	165 (4.64%)
High School Diploma	1,343 (37.75%)
Some College/2-year	426 (11.97%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	816 (22.93%)



# Detailed Facility Report

## Facility Summary

**SUPER AHORROS #2343**

**7-B CALLE LUIS MUNOZ RIVERA, VILLALBA, PR 00766**

**FRS (Facility Registry Service) ID:** 110037441676

**EPA Region:** 02

**Latitude:** 18.129398

**Longitude:** -66.492358

**Locational Data Source:** FRS

**Industries:** General Merchandise Stores

**Indian Country:** N

## Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
<b>Compliance Status</b>	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, (PRR000022004)

**Safe Drinking Water Act (SDWA):** No Information

## Other Regulatory Reports

**Air Emissions Inventory (EIS):** No Information

**Greenhouse Gas Emissions (eGGRT):** No Information

**Toxic Releases (TRI):** No Information

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



## 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.



### Potential Environmental Justice Concerns

US Territory

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

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

### EJScreen Indexes Shown

Index Type

Supplemental (default) ⌵

### Related Reports

EJScreen Community Report

[Download Data](#)

Census Block Group ID: 721497204002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
<b>Count of Indexes At or Above 90th Percentile</b>	<b>8</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>0</b>	<b>3</b>
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	22	18	30
Air Toxics Cancer Risk	● 99	● 93	● 99	● 99	0	● 99
Air Toxics Respiratory Hazard Index	21	25	39	0	17	89
Toxic Releases to Air	● 99	● 99	● 99	● 94	82	● 96
Traffic Proximity	● 95	82	● 98	59	31	67
Lead Paint	● 94	84	● 96	73	49	78
Risk Management Plan (RMP) Facility Proximity	● 99	● 98	● 99	82	70	88
Hazardous Waste Proximity	80	72	84	28	21	35
Superfund Proximity	● 94	89	● 94	12	10	16
Underground Storage Tanks (UST)	● 99	● 93	● 99	● 92	69	● 92
Wastewater Discharge	● 94	● 90	● 95	22	21	37

Map Display Based on:  US  State

Display Map Layer

Facility 1-mile Radius  Facility Census Block Group



# Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 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. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and 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	6,844
Population Density	2,201/sq.mi.
Housing Units in Area	2,597

General Statistics (ACS (American Community Survey))	
Total Persons	5,203
Percent People of Color	100%
Households in Area	1,759
Households on Public Assistance	62
Persons With Low Income	4,044
Percent With Low Income	79%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.129398
Center Longitude	-66.492358
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	640 (36.34%)
\$15,000 - \$25,000	305 (17.32%)
\$25,000 - \$50,000	496 (28.17%)
\$50,000 - \$75,000	185 (10.51%)
Greater than \$75,000	135 (7.67%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	471 (7%)
Minors 17 years and younger	1,848 (27%)
Adults 18 years and older	4,996 (73%)
Seniors 65 years and older	832 (12%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,641 (82%)
African-American	583 (9%)
Hispanic-Origin	6,821 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	24 (0%)
Other/Multiracial	590 (9%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	454 (13.14%)
9th through 12th Grade	183 (5.3%)
High School Diploma	1,328 (38.44%)
Some College/2-year	408 (11.81%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	780 (22.58%)



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# TRI Facility Report

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[Data Downloads](https://www.epa.gov/node/111331)

## TRI Facility Report: MEDTRONIC PR INC (00766MDTRNROAD1)

### Facility Information

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---



● No Violation  
● Noncompliance  
● Unknown/Not Available/Inactive  
● Significant Violation

Go to ECHO for More Enforcement and Compliance Data

## Timestamp

Query was executed on JUL-18-2024



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Last updated on June 11, 2024



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Envirofacts Report

[<< Return](#)

Query executed on JUL-18-2024  
Results are based on data extracted on OCT-13-2023

Click on "View Facility Information" to view EPA Facility information for the facility.

Facility Name:	MEDTRONIC PR INC	Mailing Name:	MEDTRONIC PR INC		
Address: < <a href="https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#address">https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#address</a> >	RD 149 KM 563 VILLALBA PR 00766	Mailing Address: < <a href="https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#mail_address">https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#mail_address</a> >	PO BOX 6001VILLALBA PR 00766		
County:	VILLALBA MUNICIPIO	Region:	2		
Facility Information:	<a href="#">View Facility Information</a>	TRI ID:	00766MDTRNROAD1	DUNS Number:	006261481
		FRS ID < <a href="https://epa.gov/enviro.epa.gov/html/registry_id.html">https://epa.gov/enviro.epa.gov/html/registry_id.html</a> >	110007805107		
Latitude:	18.126949	Longitude:	-66.497715		
Public Contact:	MANUEL SANTIAGO	Phone:	7878473500		

Assigned Public Contact:	MANUEL SANTIAGO				
Parent Company:	MEDTRONIC INC	Standardized Parent Company:		Parent DUNS:	006261481
BIA Tribal Code:		Tribe:			

**Starting with Reporting Year 2006, TRI Facilities began reporting NAICS codes, instead of SIC codes, to identify their Primary Business Activities.**

**NAICS Codes for 1995**

NAICS CODE	PRIMARY	NAICS DESCRIPTION < <a href="https://epa.gov/enviro.epa.gov/html/fii/frs_code_description/code_description.html">https://epa.gov/enviro.epa.gov/html/fii/frs_code_description/code_description.html</a> >
334510	YES	Electromedical and Electrotherapeutic Apparatus Manufacturing

**The above information comes from 1995, which was the last year NAICS code data was reported for this facility. The earliest NAICS code data on file for this facility was reported in 1987.**

**Industry Code for 1995**

INDUSTRY CODE	INDUSTRY DESCRIPTION
334	Computers and Electronic Products

**SIC Codes for 1995**

SIC CODE	PRIMARY	SIC DESCRIPTION < <a href="https://epa.gov/enviro.epa.gov/html/fii/frs_code_description/code_description.html">https://epa.gov/enviro.epa.gov/html/fii/frs_code_description/code_description.html</a> >
3845	YES	ELECTROMEDICAL EQUIPMENT (1987)

**The above information comes from 1995, which was the last year SIC code data was reported for this facility. The earliest SIC code data on file for this facility was reported in 1987.**

[Map this facility](#)

Map this facility using one of Envirofact's mapping utilities.

Besides TRI, this facility also does the following:

- handles hazardous waste



Total Releases	NR									
----------------	----	----	----	----	----	----	----	----	----	----

**TRI Chemicals Reported on Form A:**

Please note that there were no chemicals reported on Form A for this facility

**NOTE:**

All chemicals reported below have release or transfer amounts greater than zero. To see a list of all chemicals reported by this facility click [here](#).

**Names and Amounts of Chemicals Released to the Environment by Year.**

For all releases estimated as a range, the mid-point of the range was used in these calculations. **NR** - signifies nothing reported for this facility by the corresponding medium. Rows with all "0" or "NR" values were not listed.

Chemical Name	Media	Unit Of Measure	1995	1994	1993	1992	1991	1990	1989	1988	1987
Acetone (TRI Chemical ID: 0000067641)	AIR FUG	Pounds	NR	250	250						
Acetone (TRI Chemical ID: 0000067641)	AIR STACK	Pounds	NR	2800	4000						
Dichlorodifluoromethane (CFC-12) (TRI Chemical ID: 0000075718)	AIR STACK	Pounds	15900	14500	NR	13543	14500	NR	NR	NR	NR
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	AIR FUG	Pounds	9200	15700	15732	NR	33800	2100	3500	4300	6000
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	AIR STACK	Pounds	500	800	828	NR	1800	40200	67400	82600	110000

**Discharge of Chemicals into Streams or Bodies of Water:**

Please note that either there were no releases of chemicals into streams or bodies of water reported by this facility or the facility did not file a TRI form R for the years 1987 to 1995. Rows with Release Amount equal to "0" were not listed.

**Transfer of Chemicals to Off-Site Locations other than POTWs:**

For all releases estimated as a range, the mid-point of the range was used in these calculations. Rows with Total Transfer Amount equal to "0" were not listed.

<b>Chemical Name</b>	<b>Year</b>	<b>Unit Of Measure</b>	<b>Total Transfer Amount</b>	<b>Transfer Site Name and Address</b> < <a href="https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#transfer_name">https://epa.gov/enviro.epa.gov/facts/tri/search_userguide.html#transfer_name</a> >	<b>Type Of Waste Management</b>
Acetone (TRI Chemical ID: 0000067641)	1988	Pounds	4900	MEDTRONIC INC. 7000 CENTRAL AVE. MINNEAPOLIS, MN 55432	Storage Only
Acetone (TRI Chemical ID: 0000067641)	1987	Pounds	9266	MEDTRONIC, INC. 7000 CENTRAL MPLS, MN 55432	Storage Only
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1995	Pounds	7600	SAFETY-KLEEN ENVIROSYSTEMS CO., OF P.R. HWY. NO 2 KM 51.0 MANATI, PR 00701	Incineration/Insignificant Fuel Value
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1994	Pounds	8300	SAFETY KLEEN ENVIROSYSTEMS CO., OF P.R. HWY. 2 KM. 51.0 MANATI, PR 00701	Incineration/Insignificant Fuel Value
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1993	Pounds	5520	SAFETY KLEEN ENVIROSYSTEMS CO., OF P.R. HWY. 2 K.M. 51.0 MANATI, PR 00701	Incineration/Insignificant Fuel Value
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1991	Pounds	2800	SAFETY KLEEN ENVIRO SYSTEMS CO RD. #2 KM. 51.0 MANATI, PR 00701	Incineration/Insignificant Fuel Value
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1991	Pounds	41100	MEDTRONIC INC. 6970 OLD CENTRAL AVE. N. E. MINNEAPOLIS, MN 55432	Solvents/Organics Recovery

Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1990	Pounds	750	SAFETY KLEEN ENVIRO SYSTEMS, CO. RD. #2 KM 51.0 MANATI, PR 00701	Incineration/Thermal Treatment
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1989	Pounds	37600	MEDTRONIC INC. 7000 CENTRAL AVE. N.E. MINNEAPOLIS, MN 55432	Storage Only
Freon 113 (CFC-113) (TRI Chemical ID: 0000076131)	1987	Pounds	59000	MEDTRONIC, INC. 7000 CENTRAL AVENUE N.E. MPLS, MN 55432	Other Waste Treatment

### Summary of Waste Management Activities

Please note that chemical amounts shown here are not included in Total Aggregate Releases shown above.

#### Summary of Waste Management Activities excluding Dioxin and Dioxin-like Compounds (Measured in Pounds)

Year	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treatment	Off-Site Treatment	Total Amount
1994	0	0	0	0	0	8300	8300
1995	0	0	0	0	0	7600	7600
1996 (Projected)	0	0	0	0	0	0	0
1997 (Projected)	0	0	0	0	0	0	0

#### Summary of Waste Management Activities for Dioxin and Dioxin-like Compounds (Measured in Grams)

This facility did not report any waste management activities for Dioxin and Dioxin-like Compounds.

### Chemicals Under Waste Management:

Please note that chemical amounts shown here are not included in the Total Aggregate Releases shown above. Transfers to Publicly Owned Treatment Works are listed on a separate table.

Chemical Name	Year	Unit Of Measure	On-Site Recycling	Off-Site Recycling	On-Site Energy Recovery	Off-Site Energy Recovery	On-Site Treated	Off-Site Treated	Total Amount
Freon 113 (CFC-113)	1994	Pounds	0	0	0	0	0	8300	8300
	1995	Pounds	0	0	0	0	0	7600	7600
	1996 (Projected)	Pounds	0	0	0	0	0	0	0
	1997 (Projected)	Pounds	0	0	0	0	0	0	0

### Publicly Owned Treatment Works (POTW) that Chemicals were Transferred to in 2011 and after:

This facility did not transfer any chemicals to a Publicly Owned Treatment Works (POTW) in 2011 and after.

### Publicly Owned Treatment Works (POTW) that Chemicals were Transferred to PRIOR to 2011:

Prior to reporting year 2011, TRI only required facilities to report a total for all transfers of a chemical to one or more POTWs. In cases where a facility transferred waste to more than one POTW, it was not possible to list the quantities transferred to the individual POTWS. Displayed below is the history of POTW transfers prior to 2011 showing the chemical, year and POTW Name and Address. For all releases estimated as a range, the mid-point of the range was used in these calculations. Rows with Total Transfer Amount equal to "0" were not listed.

Chemical Name	Year	Unit Of Measure	Total Transfer Amount
Freon 113 (CFC-113)	1990	Pounds	5
Freon 113 (CFC-113)	1991	Pounds	5

Chemical Name	Year	POTW Name and Address < <a href="http://enviro.epa.gov/facts/tri/search_userguide.html#potw_name">http://enviro.epa.gov/facts/tri/search_userguide.html#potw_name</a> >
Acetone	1988	NA ,
Dichlorodifluoromethane (CFC-12)	1991	NA ,

Dichlorodifluoromethane (CFC-12)	1992	NA ,
Dichlorodifluoromethane (CFC-12)	1994	NA ,
Dichlorodifluoromethane (CFC-12)	1995	NA ,
Freon 113 (CFC-113)	1987	NA ,
Freon 113 (CFC-113)	1988	NA ,
Freon 113 (CFC-113)	1989	VILLALBA PRASA TREATMENT PLANT CARRETERA 149 KM 56-3 VILLALBA, PR 00766
Freon 113 (CFC-113)	1990	VILLALBA PRASA TREATMENT PLANT RD. 149 KM 56.3 VILLALBA, PR 00766
Freon 113 (CFC-113)	1991	VILLALBA PRASA POTW RD. 149 KM 56.3 VILLALBA, PR 00766
Freon 113 (CFC-113)	1993	NA ,
Freon 113 (CFC-113)	1994	NA ,
Freon 113 (CFC-113)	1995	NA ,

---

**Non Production Releases:**

This facility did not report any Non-Production releases.

### Additional Source Reduction and Pollution Prevention Data:

**The P2 Report** summarizes chemical-specific Pollution Prevention (P2) data for multiple years, including Newly Implemented Source Reduction Activities (Section 8.10) and Optional Pollution Prevention Information (Section 8.11). A "P2 Data" data entry indicates that P2 data was reported for that specific chemical and year. A NR signifies that no Pollution Prevention data was reported for that specific chemical and year.

View all P2 Information for this facility

Chemical Name	P2 Report <http://enviro.epa.gov/facts/tri/p2.html>	5-Year Waste Trend	1995	1994	1993	1992	1991
Freon 113 (CFC-113)	<a href="#">P2 Report</a>	NA	P2	P2	P2	NR	P2

"P2" indicates that P2 activity codes and/or descriptions were provided for the chemical and year in question. "B" indicates barriers to P2 was reported. "No P2" indicates that a Form R was submitted but no P2 information was included. "NR" indicates that no Form R was submitted.

### Additional links for TRI:

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- The Environmental Defense Fund's (EDF) Chemical Scorecard has on-line environmental information regarding this facility's [ⓘ](http://www.epa.gov/epahome/exitepa.htm) [EXIT Disclaimer](http://www.epa.gov/epahome/exitepa.htm) <http://www.epa.gov/epahome/exitepa.htm> reported TRI releases.



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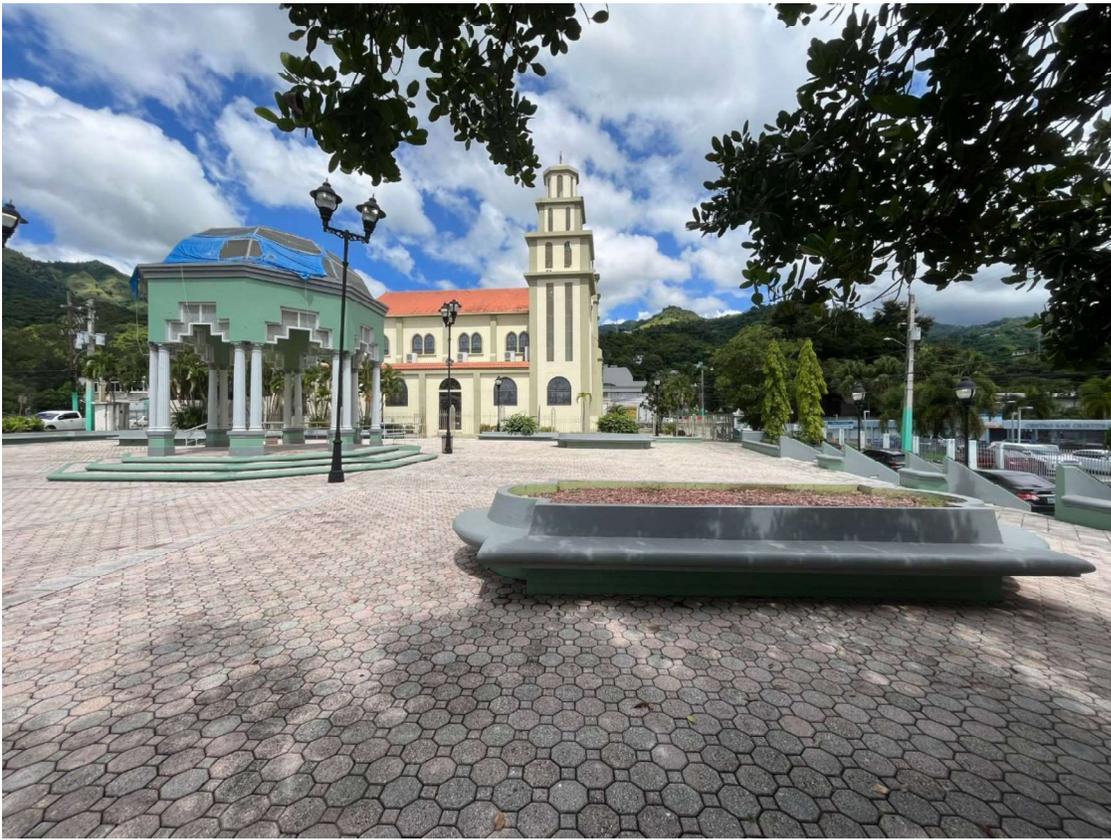


Field Visit Checklist & Site Evaluation						
Project Name:	Mejoras Plaza Pública José Ramón Figueroa Rivera.			Latitude	18°7'42"N	
First Name:		Last Name:		Longitude	66° 29'32"W	
Street Address:				Apt/Suite:		
City:	Villalba			State:	PR	Zip: 00766
Date of Visit:	10/13/2023			Field Visit Conducted By:	Vanessa Batista Santiago Irma M Pagan Villegas	
EXISTING ENVIRONMENTAL CONDITIONS ON & AROUND SITE						
Levee/Flood Control Structures (Levees, T-walls, pumping stations, etc.)						
	Site Specific			Area		
Observations	There were no flood control structures in or around the project that could be affected by the rehabilitation of Plaza Pública José Ramón Figueroa Rivera.					
Toxic Chemicals & Radioactive Materials						
Petroleum or Chemical Storage						
	Site Specific			Area		
Is there any evidence or indication of an underground storage tank (UST) may be located on site?	According to the information obtained at <a href="https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba">https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba</a> no underground tanks were found in or near the project. According to the information obtained during the visit, there was no evidence or indication of any underground storage tank that may be located within the 500-foot radius.					
If yes, are they in use?	N/A					
Are there any out-of-service underground fuel tanks?	There was no evidence or indication of any out-of-service underground fuel tanks within the 500-foot radius.					
Is there any evidence that any AST on the property are leaking?	There was no evidence or indication of any AST on the property are leaking within the 500-foot radius.					
Polychlorinated Biphenyls (PCB): N/A						
	Site Specific			Area		
Is there any evidence or indication of leaking electrical equipment (transformer - ground or pole mounted, capacitor, or hydraulic equipment) present on site?	Around the project site, cables were found exposed in receptacles under the benches. However, none showed signs of leaking electrical equipment.					
Hazardous Operations						
	Site Specific			Area		

Is there any evidence of manufacturing operations utilizing or producing hazardous substances at or in close proximity to the site?	According to the information obtained at <a href="https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba">https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba</a> , there was no evidence or indication of any operations utilizing or producing hazardous substances within the 500-foot radius.	
Is there any evidence or indication that past operations located on or in close proximity to the property used hazardous substances or radiological materials that may have been released into the environment?	According to the information obtained at <a href="https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba">https://nepassisttool.epa.gov/nepassist/nepamap.aspx?wherestr=villalba</a> , there was no evidence or indication of any operations located within the 500-foot radius of the property that used hazardous substances or radiological materials that may have been released into the environment.	
<p><b>Notes/Observations:</b></p> <p>The inspection carried out considered the points identified in the NEPAssist Map. There was 1 point within the 500-foot radius of the Project location. The data provided in the NEPAssist was corroborated in the inspection. We encountered that there were no visible RCRA sites on the locations provided by the NEPAssist. Therefore, it is concluded that NPDES, RCRA, Defense or Munitions sites do not have the potential to affect the Project.</p> <p>Attached images of Plaza Pública José Ramón Figueroa Rivera and the RCRA sites.</p>		

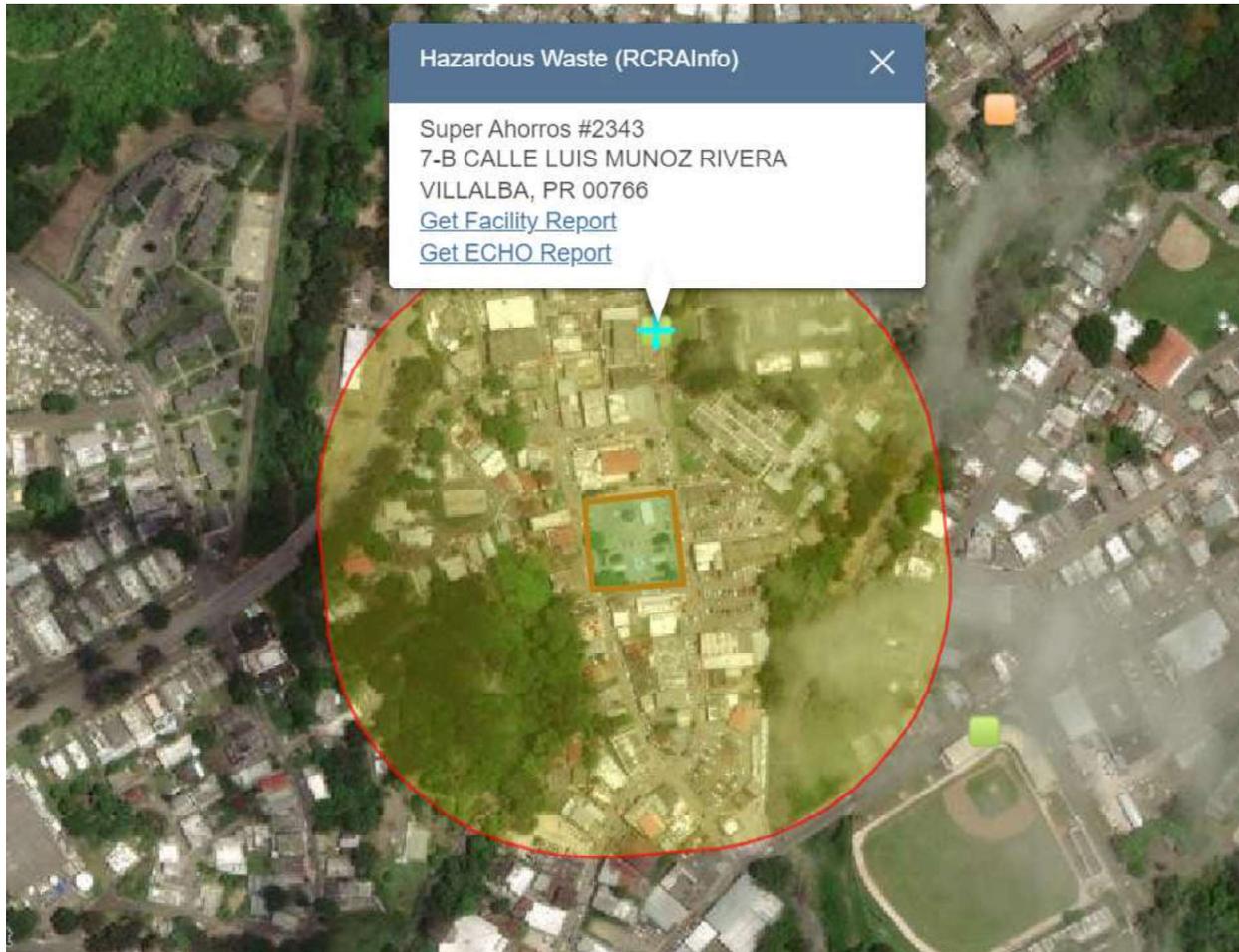
<p><b>SITE PHOTOGRAPHS</b></p>	<p><b>Mejoras Plaza Pública José Ramón Figuroa Rivera.</b></p>
<p>Lat: 18.12844388, Lon: -66.49262996</p>	







<b>NEPAssist Map</b>	<b>Mejoras Plaza Pública José Ramón Figueroa Rivera.</b>
Lat:18° 7'46.02"N, Lon: -66°29'32.50"W	



<p><b>RCRA Site #1</b></p>	<p><b>Mejoras Plaza Pública José Ramón Figueroa Rivera.</b></p>
<p>Lat:18° 7'46.02"N, Lon: -66°29'32.50"W</p>	
<p>7-B CALLE LUIS MUNOZ RIVERA VILLALBA, PR 00766</p>	







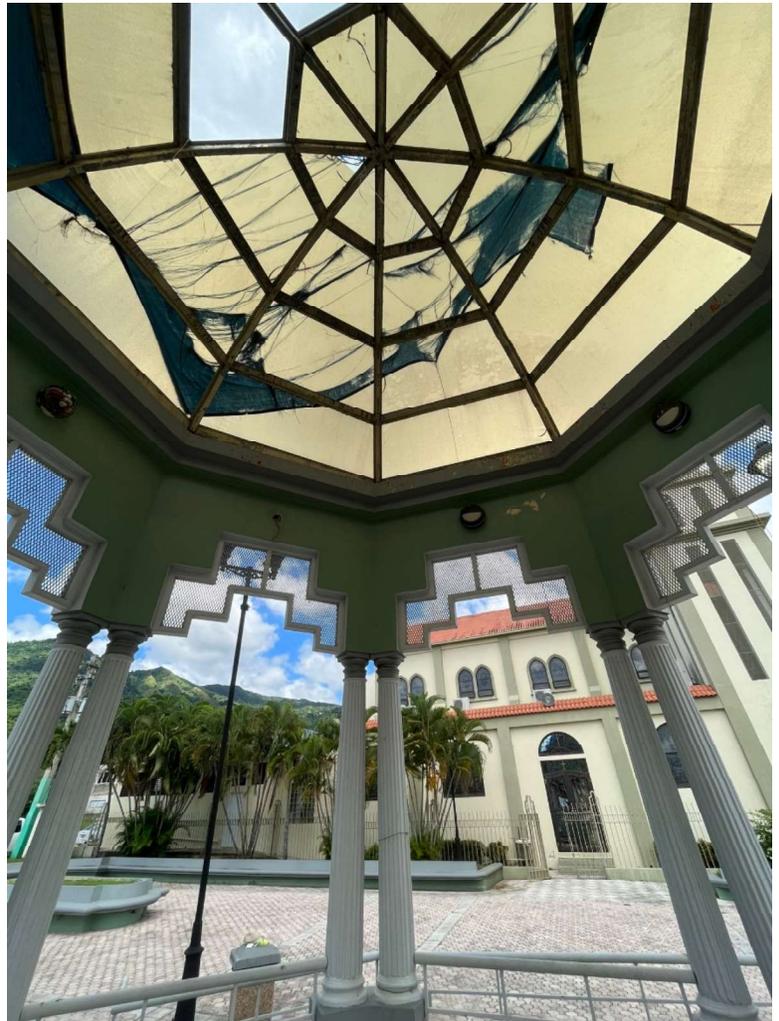
<b>Inspection Photographs</b>	<b>Mejoras Plaza Pública José Ramón Figuroa Rivera.</b>
Lat: 18.12844388, Lon: -66.49262996	



Applicant ID:



Applicant ID:



**“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO**

**Prepared for:**

**VISURA CSP  
Carlos Gerardo Quiñones  
Yrcora.visura@gmail.com**



**“PLAZA DE VILLALBA”  
ASBESTOS & LEAD BASED PAINT  
LIMITED SURVEY REPORT**

**Prepared by:**

**Enviroresources, Inc.  
HC 01 Box 5555  
Barranquitas, P.R. 00794  
Tel. (787) 319-5618  
Email: enviroresources@yahoo.com**



“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO

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 2.0 TESTING / SAMPLING PROCEDURES .....4  
 3.0 INSPECTION RESULTS FOR LEAD BASED PAINT.....5  
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 5.0 RECOMMENDATION.....5

**Appendix**

Appendix A - Lead Based Paint Sampling Results Tables

Appendix B - Positive Lead Based Paint Areas Photos

Appendix C - Negative Certifications & Inspector Credentials

Appendix D - XRF Performance Characteristic Sheet

## 1.0 INTRODUCCION

An environmental survey for Asbestos Containing Materials & Lead Based Paint (LBP) Components was conducted by a PRDRNA certified Asbestos & Lead Inspector. The limited survey was conducted on December 16, 2022 in selective areas for the Renovation Project of Plaza de Villalba located in Pueblo Ward, Villalba, Puerto Rico.

**For Lead**, the survey was conducted using an instrument XRF Viken, model PB200i Serial # 3040 and using Department of Housing and Urban Development (HUD) guidelines. The hazard level for lead in paint is 1.0 mg/cm<sup>2</sup>, as measured by XRF.

**For Asbestos**, the survey was performed based on Asbestos Hazard Emergency Response Act (AHERA) protocol, according the following scenario:

- A. The structure was divided in functional spaces.
- B. Physical and Hazard Assessment of suspected asbestos containing materials was performed.
- C. Samples were collected according to homogeneous areas.

Asbestos was used in the construction industry from 1900 to 1989 and still being today in various products. The mere presence of asbestos containing materials does not necessary constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other activities that allow asbestos fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos has been associated with various types of lung diseases including a debilitating lung disease called

Asbestosis; a rare cancer of chest called Mesothelioma; and cancers of the esophagus, stomach, colon and other organs.

The US Environmental Protection Agency (EPA) and the PR Environmental Quality Board requires inspecting the presence of Asbestos Containing Building Materials (ACBM) prior to the buildings renovation / demolition, and requires obtaining a permit and notify before any abatement activities. The rule 422 of PR EQB and US EPA National Emission Standard of Hazardous Air Pollutants (NESHAP), 40 CFR

61 Subpart M regulation, governs asbestos demolition and renovation projects in all facilities.

The EPA Asbestos NESHAP Standard defines friable ACM as any material containing more than one (1) percent asbestos that, when dry, can be crumbled, pulverized, or reduces to power by hand pressure. Non-friable is any material that contains more than one (1) percent asbestos that, when dry, cannot be crumbled, pulverized, or reduces to power by hand pressure.

## **2.0 TESTING / SAMPLING PROCEDURES**

**The main steps involved in lead based paint inspection are:**

- A. Perform inventory of all testing combinations.
- B. Select painted area to be tested.
- C. Perform the XRF testing including the calibration.
- D. Evaluate and classify the data.

The identification of tested walls is based on HUD guidelines as follow, where the structure has rooms or functional spaces:

- A. Wall A - entrance Wall
- B. Walls B, C and D - sequential walls, clockwise from A.
- C. For Roads, Highways or other exterior structure areas, the testing are selected in the painted areas and this type of projects is not part of HUD guidelines.

For asbestos, all functional spaces were visited and visually inspected to identify the location of any suspicious ACM. If any suspicious material is identified, an assessment will be made of the friability of suspected ACM by touching the material to determine if could be pulverized, crumbled or reduced to power by hand pressure. Upon completion of functional space investigation (Areas which are uniform by color, texture, construction / application date and general appearance), it was determined that there are no suspicious ACM.

### **3.0 INSPECTION RESULTS FOR LEAD BASED PAINT**

A total of **Forty (40)** selected areas were tested for lead. **Seven (7)** of these testing were found above the regulatory limit of 1.0 mg/cm<sup>2</sup>. **The areas positive for Lead Based Paint are the selective areas in Concrete Curves, approximately 104 linear feet.** See the **Appendix A** for lead based paint sampling results tables and **Appendix B** for Positive Areas Photos. **The quantification of the areas is only an estimate. The Contractors shall estimate the amount of the materials to be abated.**

### **4.0 INSPECTION RESULTS FOR ASBESTOS**

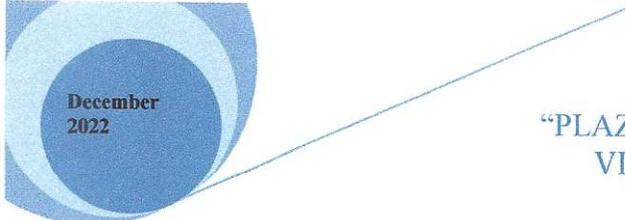
The samples are defined as asbestos containing materials (ACM) if they contain more than 1% of asbestos. Samples are analyzed by Polarized Light Microscopy method (PLM), in accordance to EPA recommended procedures. Bulk samples were not collected for project Plaza de Villalba, because no suspicious material for asbestos was found.

See the Negative Certification in the **Appendix C**.

### **5.0 RECOMMENDATIONS**

According to the DRNA lead based paint (LBP) regulations, prior to the demolishing or renovation of a structure containing LBP, the contaminated surfaces or substrates must be abated or removed by an abatement firm certified by DRNA.

Complete the Permits Process for the Structures Demolition Project, following the local and federal regulations.



December  
2022

“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO

Appendix A

Lead Based Paint XRF Sampling Tables

PROJECT: Plaza de Villalba, Villalba, P.R.				CLIENT: Visura CSP			
DATE: 12-16-22		XRF Serial Number: Viken Pb200i Serial #3040		LBP INSPECTOR: Raúl Matos			
Sample ID	Funcional Space	Location	Color	Subst.	XRF Reading/mg/cm <sup>2</sup>	Pos/Neg	Comments
001	Calibration				1.1		
002	Calibration				1.0		
003	Calibration				1.0		
004	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	Banco 1(North Area)
005	Bancos - Plaza	Lower Area	Green	Concrete	0.1	-	
006	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	Banco 2
007	Bancos - Plaza	Lower Area	Green	Concrete	0.1	-	
008	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	Banco 3
009	Bancos - Plaza	Lower Area	Green	Concrete	0.2	-	
010	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	Banco 4
011	Bancos - Plaza	Lower Area	Green	Concrete	0.2	-	
012	Gazebo - Plaza	Columns	White	Concrete	0.1	-	16 Columns
013	Gazebo - Plaza	Columns Base	Green	Concrete	0.1	-	8 Bases
014	Gazebo - Plaza	Columns Base	Gray	Concrete	0.1	-	8 Bases
015	Gazebo - Plaza	Upper Walls	Green	Concrete	0.1	-	
016	Gazebo - Plaza	Upper Walls	Gray	Concrete	0.1	-	
017	Gazebo - Plaza	Stairs	Gray	Concrete	0.4	-	
018	Gazebo - Plaza	Hand Rails	Gray	Metal	0.5	-	
019	Bancos - Plaza	Lower Area	Green	Concrete	0.1	-	Todos Negativos
020	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	Todos Negativos
021	South Stairs - Plaza	Steps Area	Gray	Concrete	0.2	-	
022	South Stairs - Plaza	Steps Area	Green	Concrete	0.2	-	
023	Bancos - Plaza	Upper Area	Gray	Concrete	0.1	-	South Area
024	Bancos - Plaza	Lower Area	Green	Concrete	0.1	-	Todos Negativo

PROJECT: Plaza de Villalba, Villalba, P.R.				CLIENT: Visura CSP			
DATE: 12-16-22		XRF Serial Number: Viken Pb200i Serial #3040		LBP INSPECTOR: Raúl Matos			
Sample ID	Funcional Space	Location	Color	Subst.	XRF Reading/mg/cm <sup>2</sup>	Pos/Neg	Comments
025	Fuente - Plaza	Exterior	Gray	Concrete	0.1	-	
026	Fuente - Plaza	Exterior	Green	Concrete	0.1	-	
027	Fuente - Plaza	Interior	Blue	Concrete	0.1	-	
028	Fuente - Plaza	Interior	Gray	Concrete	0.1	-	
029	Fuente - Plaza	Light post base	Gray	Concrete	0.1	-	Todos Negativos
030	Fuente - Plaza	Light post base	Green	Concrete	0.1	-	
031	Calle Antolin Castillo	Curve /Southwest	Yellow	Concrete	1.2	+	30 pies lineales aprox.
032	Calle Antolin Castillo	Curve /Southwest	Blue	Concrete	0.5	-	
033	Calle Antolin Castillo	Curve /South	Yellow	Concrete	0.3	-	
034	Calle Antolin Castillo	Curve /South	Yellow	Concrete	0.2	-	
035	Calle Antolin Castillo	Curve /South	Yellow	Concrete	0.2	-	
036	Calle Luis Muñoz Rivera	Curve /Southeast	Yellow	Concrete	1.3	+	30 pies lineales aprox.
037	Calle Luis Muñoz Rivera	Curve /East	White	Concrete	0.2	-	
038	Calle Luis Muñoz Rivera	Curve /East	White	Concrete	0.1	-	
039	Calle Luis Muñoz Rivera	Curve /East	White	Concrete	0.1	-	
040	Calle Luis Muñoz Rivera	Curve /Northeast	Yellow	Concrete	1.2	+	24 pies lineales aprox.
041	Calle Figueroa	Curve /Northeast	Blue	Concrete	1.0	+	
042	Calle Figueroa	Curve /Northeast	Yellow	Concrete	1.0	+	
043	Calle Figueroa	Curve /North	Blue	Concrete	0.3	-	
044	Calle Figueroa	Curve /North	Blue	Concrete	0.3	-	
045	Calle Figueroa	Curve /North	White	Concrete	0.3	-	
046	Calle Figueroa	Curve /Northwest	Yellow	Concrete	1.6	+	20 pies lineales aprox.
047	Calle Barceló	Curve /Northwest	Yellow	Concrete	1.3	+	
048	Calle Barceló	Curve /West	White	Concrete	0.2	-	





December  
2022

“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO

Appendix B

Positive Lead Based Paint Areas Photos

# Positive Lead Based Paint Areas and AS-Built

---

## *PLAZA DE VILLALBA, VILLALBA, PR*



Curves at Southwest Area (Approximately 30 lineal feet)\*



Curves at Southeast Area (Approximately 30 lineal feet)\*

**\*The Quantification of the areas is only an estimated. The Contractors shall estimate the amount of materials to be abated**

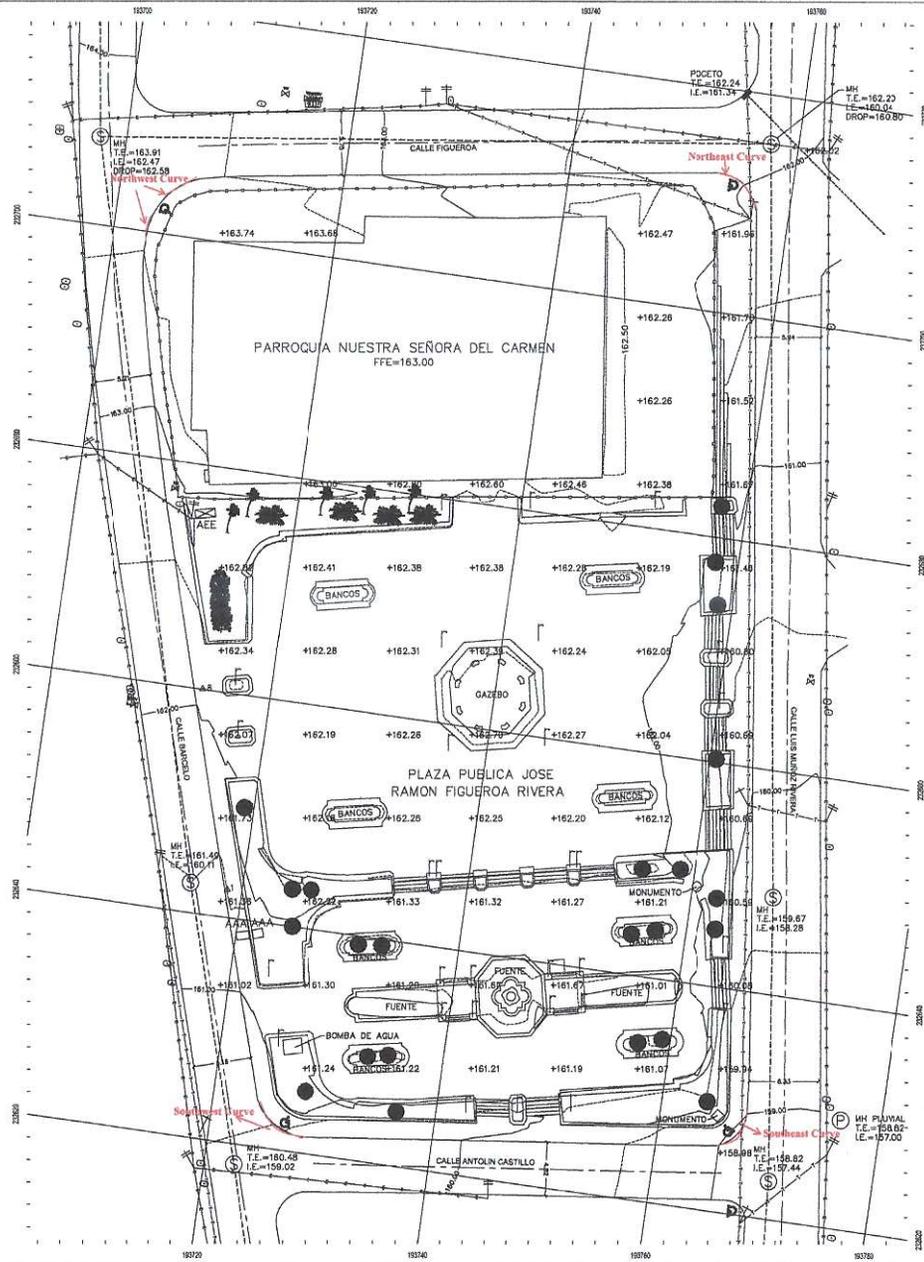
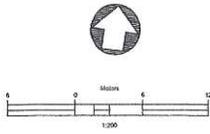


Curves at Northeast Area (Approximately 24 lineal feet)\*



Curves at Northeast Area (Approximately 20 lineal feet)\*

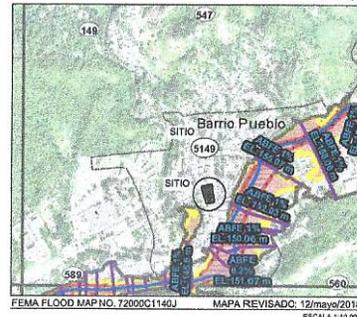
**\*The Quantification of the areas is only an estimated. The Contractors shall estimate the amount of materials to be abated**



- LEYENDA:**
- LINEA DE CENTRO DE CALLE
  - - - VERJA EXISTENTE
  - - - LINEA ELÉCTRICA PRIMARIA Y/O SECUNDARIA
  - - - LINEA DE TELECOMUNICACIONES
  - - - TUBERIA SANITARIA DE 8" Ø
  - - - TUBERIA PLUVIAL DE 12" Ø
  - ⊕ POSTE CON LINEAS ELECT. PRIM. Y/O SEC.
  - ⊕ POSTE DE TELECOMUNICACIONES
  - ⊕ POSTE DE ALUMBRADO
  - ⊕ CONTADOR DE AGUA
  - ⊕ VALVULA
  - ⊕ MANHOLE SANITARIO
  - ⊕ PUNTO DE CONTROL
  - ARBOL EXISTENTE

Lead Based Paint Areas in Curbs

Puntos de Control				
Punto #	Norte	Este	Elevación	Descripción
1	232942.530	193718.693	161.56	STA.PK
8	232650.053	193713.938	162.24	STA.PK



- NOTAS:**
- EL CONTROL HORIZONTAL HA SIDO REFERENCIADO AL SISTEMA DE COORDENADAS PUERTO RICO NAD\_83(2011) (EPSG:2010.0000).
  - TODAS LAS DISTANCIAS ESTAN EXPRESADAS EN METROS, O DE OTRA FORMA ESPECIFICADA.
  - LA INFORMACION ILUSTRADA EN ESTE PLANO REPRESENTA EL RESULTADO DE LA MENSURA REALIZADA EN LA FECHA INDICADA Y SOLO PUEDE SER CONSIDERADA COMO UNA INDICACION DE LAS CONDICIONES GENERALES EXISTENTES EN ESE MOMENTO.
  - EL INTERVALO DE LAS LINEAS DE CONTORNO ES DE 0.50 METRO.

COMPANIA

**Terraverde, LLC**  
CONSTRUCTORA, DISEÑO Y MÁS

INFO  
[www.terraverdepr.com](http://www.terraverdepr.com)  
[terraverde.info@gmail.com](mailto:terraverde.info@gmail.com)  
 tel (787) 844-2712  
 PO Box 800986 Coto  
 Laurel, PR 00780-0986

- SERVICIOS
- Construcción en General (Remodelaciones)
  - Arquitectura y Diseño Paisajista (Mantenimiento de Exteriores)
  - Agrimensura (Mensuras, Topografías)
  - Gestión de Permisos



PROYECTO  
**MENSURA Y TOPOGRAFIA  
 PLAZA DE VILLALBA**

PROPIEDAD DE  
**MUNICIPIO DE VILLALBA**

UBICACION  
**CALLE BARCELO  
 VILLALBA, PUERTO RICO  
 00766**

Num.	Descripción	Fecha

Título  
**PLANO DE MENSURA Y TOPOGRAFIA**

Fecha	October 22
Diseñado por	GMT
Verificado por	PRMT
Proyecto	Municipio plaza.dwg
ID de Hoja	Num. de Hoja
<b>M - 1</b>	<b>1 / 1</b>
Escala	1 : 500



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2022

“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO

Appendix C

Asbestos Negative Certifications & Inspectors Credentials



## CERTIFICACION DE NO PRESENCIA DE ASBESTO EN ESTRUCTURAS

(Deberá completarse en letra de molde o impresa)

PGC-\_\_\_\_\_

PARA USO OFICIAL

Yo, Raúl Matos Rivera, mayor de edad, casado, y vecino de Barranquitas  
(Nombre) (Estado Civil) (Municipio)

Dirección Postal HC-01 BOX 5555, Barranquitas, P.R. 00794  
(Pueblo) (Zip Code)

Teléfono: Oficina (787) 319-5618

### Certifico que:

1. Las áreas a demoler del Proyecto Plaza de Villalba, Bo. Pueblo, Villalba, P.R., se encuentran libre de asbestos.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Barranquitas de Puerto Rico, hoy día 21 de diciembre de 2022.

ASB-0722-0257-SI

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

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

CERTIFICACIÓN PLOMO PUERTO RICO



Esta tarjeta autoriza a:  
**Raúl Matos Rivera**

Para realizar actividades relacionadas a  
Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**

Fecha de Expiración: Diciembre 1, 2023

Certificación #:  
**LBPI-33622-399**



Firma Autorizada  
Departamento de Recursos Naturales y  
Ambientales

TARJETA DE REGISTRO  
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

***Raúl Matos Rivera***  
**Inspector**

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

**ASB-0722-0257-SI**  
Número de Registro

**21-jun-2023**  
Fecha de vencimiento

  
Firma Autorizada - Departamento  
Recursos Naturales y Ambientales



December  
2022

“PLAZA DE VILLALBA PROJECT”  
VILLALBA, PUERTO RICO

Appendix D

XRF Performance Characteristic Sheet

## Performance Characteristic Sheet

**EFFECTIVE DATE:** December 1, 2015

**MANUFACTURER AND MODEL:**

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

### FIELD OPERATION GUIDANCE

**OPERATING PARAMETERS:**

Action Level mode

**XRF CALIBRATION CHECK LIMITS:**

0.8 to 1.2 mg/cm <sup>2</sup> (inclusive)
---

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

### OPERATING PARAMETERS

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

### XRF CALIBRATION CHECK:

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

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

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

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

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

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

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

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

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

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

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

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF readings.

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

Find the absolute difference of the two averages.

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

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

**TESTING TIMES:**

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm<sup>2</sup>. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm <sup>2</sup> )	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

**CLASSIFICATION OF RESULTS:**

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm<sup>2</sup>), and *negative* if they are *less than* the threshold.

**DOCUMENTATION:**

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

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



## Memorandum to File

**Date:** December 13, 2024

*Genevieve Kaiser*

**From:** Genevieve Kaiser  
Senior Environmental Planner/GIS Specialist  
City Revitalization Program Puerto Rico Department of Housing  
Puerto Rico Department of Housing

**Application Number:** PR-CRP-000127  
**Project:** Centro de Actividades Municipal

**Re: Justification for the Infeasibility and Impracticability of Radon Testing**

After reviewing Application Number PR-CRP-000127 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 reasons:

- 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**



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](mailto: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 Povelko, [Povelko.Oleg@epa.gov](mailto:Povelko.Oleg@epa.gov)  
Mr. Matthew Lantia, [lantia.matthew@epa.gov](mailto:lantia.matthew@epa.gov)



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](mailto:silvina.cancelos@upr.edu)

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Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Dr. Carlos Marín, [carlos.marin3@upr.edu](mailto:carlos.marin3@upr.edu)



August 20, 2024

Dr. Jessica Izarry  
Director  
Office of Island Affairs  
U.S. Centers for Disease Control and Prevention  
1324 CII Canada, San Juan, 00920  
Guaynabo, PR 00968-8069

Via email: [OIA@cdc.gov](mailto:OIA@cdc.gov)

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

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Sincerely,

  
William O. Rodríguez Rodríguez, Esq.  
Secretary



August 20, 2024

Mrs. Anais Rodríguez  
Secretary  
Puerto Rico Department of Natural Resources  
Carretera 8838, km. 6.3, Sector El Cinco,  
Río Piedras San Juan, PR 00926

Via email: [anais.rodriguez@dma.pr.gov](mailto:anais.rodriguez@dma.pr.gov)

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Sincerely,

  
William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. Luis Márquez, [secretariogaire@dma.pr.gov](mailto:secretariogaire@dma.pr.gov)  
Eng. Amarilys Rosario, [aire@dma.pr.gov](mailto:aire@dma.pr.gov)  
Mrs. Elid Ortega, [ortega@dma.pr.gov](mailto:ortega@dma.pr.gov)



August 20, 2024

Dr. Carlos R. Mellado López  
Secretary  
Puerto Rico Department of Health  
PO Box 70184  
San Juan, PR 00936-8184

Via email: [drCarlos.mellado@salud.pr.gov](mailto:drCarlos.mellado@salud.pr.gov)

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William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. Raúl Hernández Dabla, [rahernandez2@salud.pr.gov](mailto:rahernandez2@salud.pr.gov)



August 20, 2024

Mrs. Holly Weyers  
Regional Director, Southeast – Puerto Rico  
US Geological Survey  
3916 Sunset Ridge Road  
Raleigh, NC 27607

Via email: [hswyers@usgs.gov](mailto:hswyers@usgs.gov)

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

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Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. R. Randall Schumann, [rschumann@usgs.gov](mailto: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](mailto: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- Radon 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](mailto: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>; Silvana Cancelos Mancini <silvana.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

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**From:** Silvana Cancelos Mancini <[silvana.cancelos@upr.edu](mailto:silvana.cancelos@upr.edu)>  
**Sent:** Friday, September 6, 2024 15:04  
**To:** Melanie Medina Smaine <[mmedina@vivienda.pr.gov](mailto:mmedina@vivienda.pr.gov)>  
**Cc:** Elaine Dume Mejia <[Edume@vivienda.pr.gov](mailto:Edume@vivienda.pr.gov)>; Luz S Colon Ortiz <[Lcolon@vivienda.pr.gov](mailto:Lcolon@vivienda.pr.gov)>; Aldo A. Rivera-Vazquez <[aarivera@vivienda.pr.gov](mailto:aarivera@vivienda.pr.gov)>; Maritza Rosa Olivares <[maritzarosaolivares@drna.pr.gov](mailto:maritzarosaolivares@drna.pr.gov)>; Reyes, Brenda <[Reyes.Brenda@epa.gov](mailto:Reyes.Brenda@epa.gov)>; Povetko, Oleg <[Povetko.Oleg@epa.gov](mailto:Povetko.Oleg@epa.gov)>  
**Subject:** Re: Request for Information- Randon testing and levels

Estimada Melanie Medina

Quería dejarte 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

Silvana 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: [silvana.cancelos@upr.edu](mailto:silvana.cancelos@upr.edu)



Bubble Dynamics Lab  
University of Puerto Rico - Mayaguez



EPA REGION 2  
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

**VIA EMAIL**

William O. Rodriguez Rodriguez, 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 Rodriguez Rodriguez:

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.<sup>1</sup> 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.

<sup>1</sup> 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, 7<sup>TH</sup> FLOOR  
ROUTE 185 GUAYNABO, PR 00988

2

If you have any questions or need any additional information, please contact me at 787-977-5865 or [guerrero.carmen@epa.gov](mailto:guerrero.carmen@epa.gov) or have your staff contact Reyes, Brenda at [reyes.brenda@epa.gov](mailto:reyes.brenda@epa.gov) or (787) 977-5869.

Sincerely,  
**CARMEN GUERRERO PEREZ**  
Carmen R. Guerrero Pérez  
Director

Digitally signed by  
CARMEN GUERRERO PEREZ  
Date: 2024.09.23 09:41:39  
-0400

cc: Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)  
Melany Medina: [mmedina@vivienda.pr.gov](mailto:mmedina@vivienda.pr.gov)  
Elaine Dume Mejia: [Edume@vivienda.pr.gov](mailto:Edume@vivienda.pr.gov)  
Luz S Colon Ortiz: [Lcolon@vivienda.pr.gov](mailto:Lcolon@vivienda.pr.gov)  
Aldo A. Rivera-Vazquez: [aarivera@vivienda.pr.gov](mailto:aarivera@vivienda.pr.gov)  
Cesar O. Rodriguez: [cesarrodriquez@drna.pr.gov](mailto:cesarrodriquez@drna.pr.gov)  
Marita Rosa Olivares: [maritzarosaolivares@drna.pr.gov](mailto:maritzarosaolivares@drna.pr.gov)

# **Appendix E**

## **Endangered Species**



**Transmittal Letter**

January 30, 2024

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



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

**DAMARIS ROMAN RUIZ** Digitally signed by DAMARIS ROMAN RUIZ  
Reviewer Date: 2024.02.01 07:47:01 -04'00'

**LOURDES MENA** Digitally signed by LOURDES MENA  
Acting Caribbean ES Field Supervisor Date: 2024.02.06 10:33:14 -04'00'  
Adobe Acrobat version: 2023.008.20470

**RE: USFWS Endangered Species Act Certifications  
City Revitalization Program  
January 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-000073	Reconstrucción Edificio: Colaboratorio Tecnológico
<b>PR-CRP-000127</b>	<b>Mejoras a la Plaza Pública José Ramón Figueroa Rivera</b>
PR-CRP-000135	Centro Multidisciplinario de Servicios a la Comunidad
PR-CRP-000338	Mejoras a la Plaza de la Identidad
PR-CRP-000783	Centro de Actividades Municipal
PR-CRP-000996	Cine/Teatro Esperanza
PR-CRP-001094	Gimnasio Municipal

For more information, please contact the Permits and Environmental Compliance Division at [environmentcdbg@vivienda.pr.gov](mailto: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.

The Puerto Rico Department of Housing (PRDOH) certifies that the following project **Mejoras Plaza Pública José Ramón Figueroa Rivera (PR-CRP-000127)** consisting of improvements to pedestrian stairs, ADA compliance ramps & sidewalks, and improvements to the plaza, including space for sales kiosks and green luminaries; located by Barceló St, Antolín Castelló St, Luis Muñoz Rivera St. and Figueroa St, Villalba, PR 00766; coordinates 18.12844388, -66.49262996, o mplies with:

Check	Project Criteria
<input type="checkbox"/>	1. Street resurfacing.
<input checked="" type="checkbox"/>	2. Construction of gutters and sidewalks along existing roads.
<input type="checkbox"/>	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
<input type="checkbox"/>	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
<input type="checkbox"/>	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.

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



Ángel G. López-Guzmán  
Deputy Director

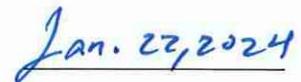
Permits and Environmental Compliance Division

Office of Disaster Recovery

**Address:** P.O. Box 21365 San Juan, PR 00928

**Telephone and Ext:** 787-274-2527 ext. 4320

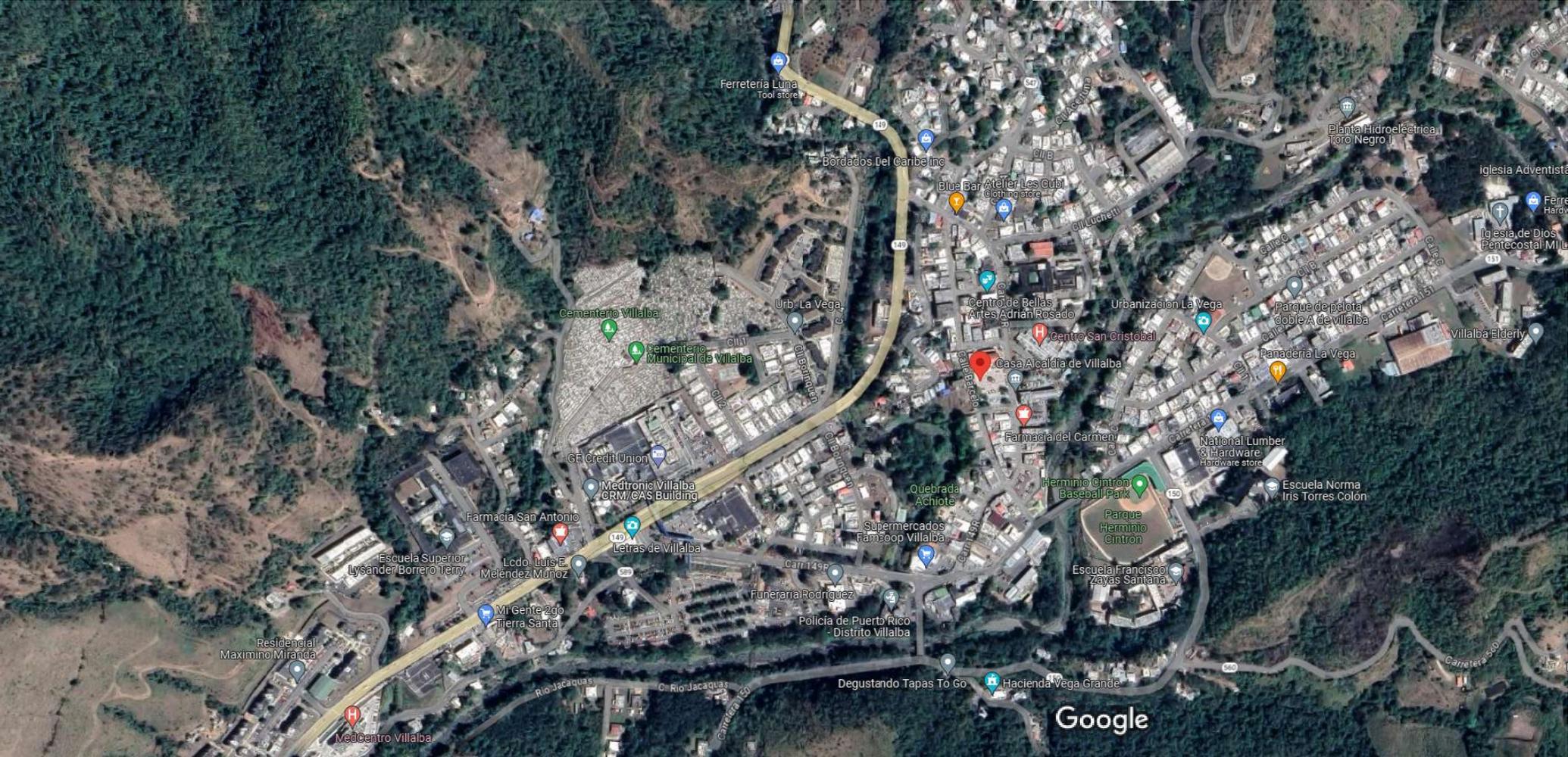
**Email:** [environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov)



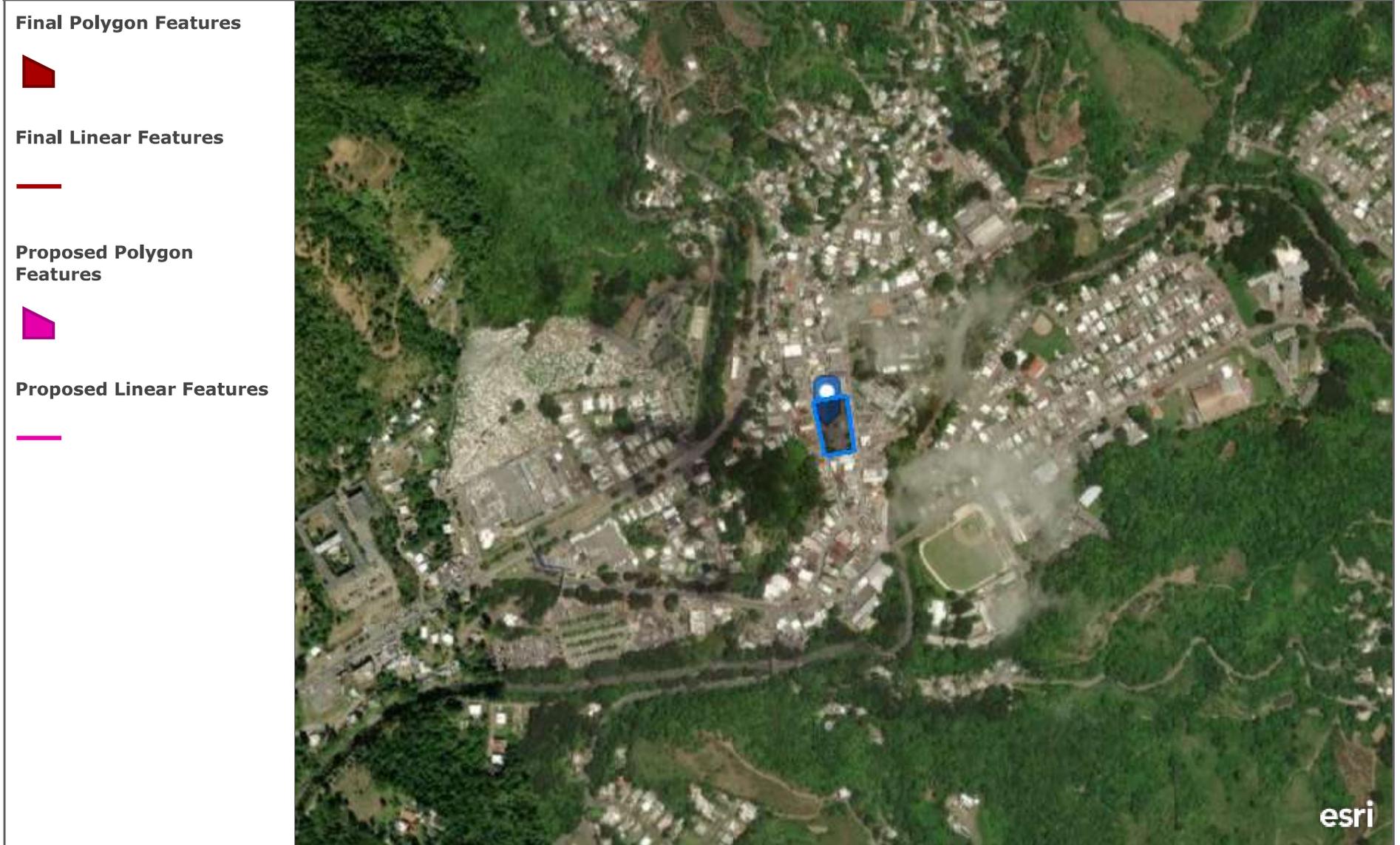
Date

# **Attachment 1**

Maps



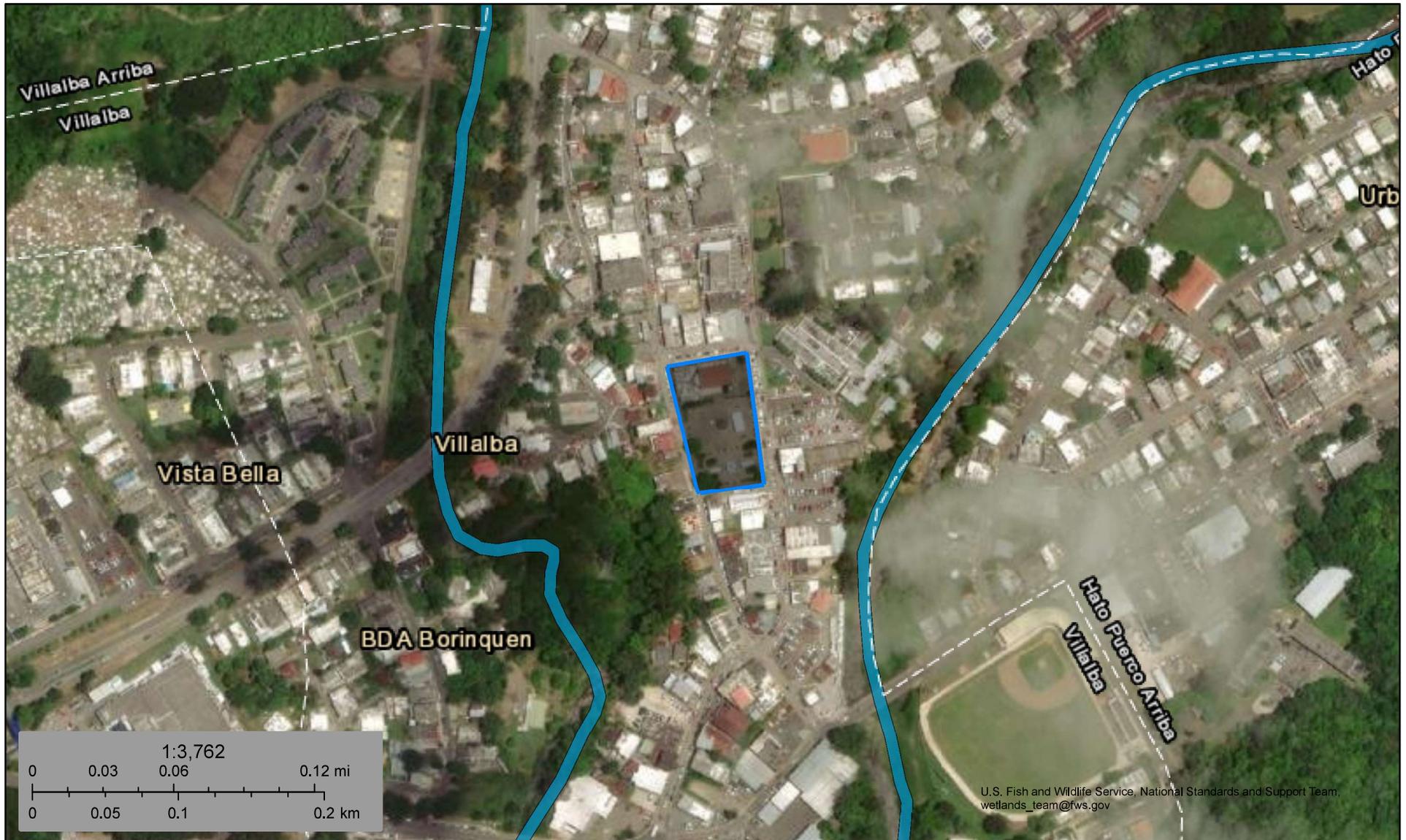
# Critical Habitat for Threatened & Endangered Species [USFWS]



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.

600ft

Maxar



November 17, 2023

**Wetlands**

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

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

## **Attachment 2**

IPaC Report

# IPaC resource list

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

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

## Location

Villalba County, Puerto Rico



## Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

✉ [CARIBBEAN\\_ES@FWS.GOV](mailto: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. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> 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)<sup>2</sup>.

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

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

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

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

## Reptiles

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

## Critical habitats

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

There are no critical habitats at this location.

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

## Bald & Golden Eagles

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

Additional information can be found using the following links:

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

- Supplemental Information for Migratory Birds and Eagles in IPaC  
<https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

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

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

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

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

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

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

**What if I have eagles on my list?**

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

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

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

---

1. The [Migratory Birds Treaty Act](#) of 1918.

2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### **What are the levels of concern for migratory birds?**

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

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

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

### **Details about birds that are potentially affected by offshore projects**

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

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

### What if I have eagles on my list?

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

### Proper Interpretation and Use of Your Migratory Bird Report

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

## Facilities

### National Wildlife Refuge lands

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

There are no refuge lands at this location.

# Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

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

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

This location did not intersect any wetlands mapped by NWI.

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

### Data limitations

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

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

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

### Data exclusions

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

## Data precautions

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

NOT FOR CONSULTATION

## **Attachment 3**

Supporting Documents



## 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.



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

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

#### Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
4. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.
5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.
6. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

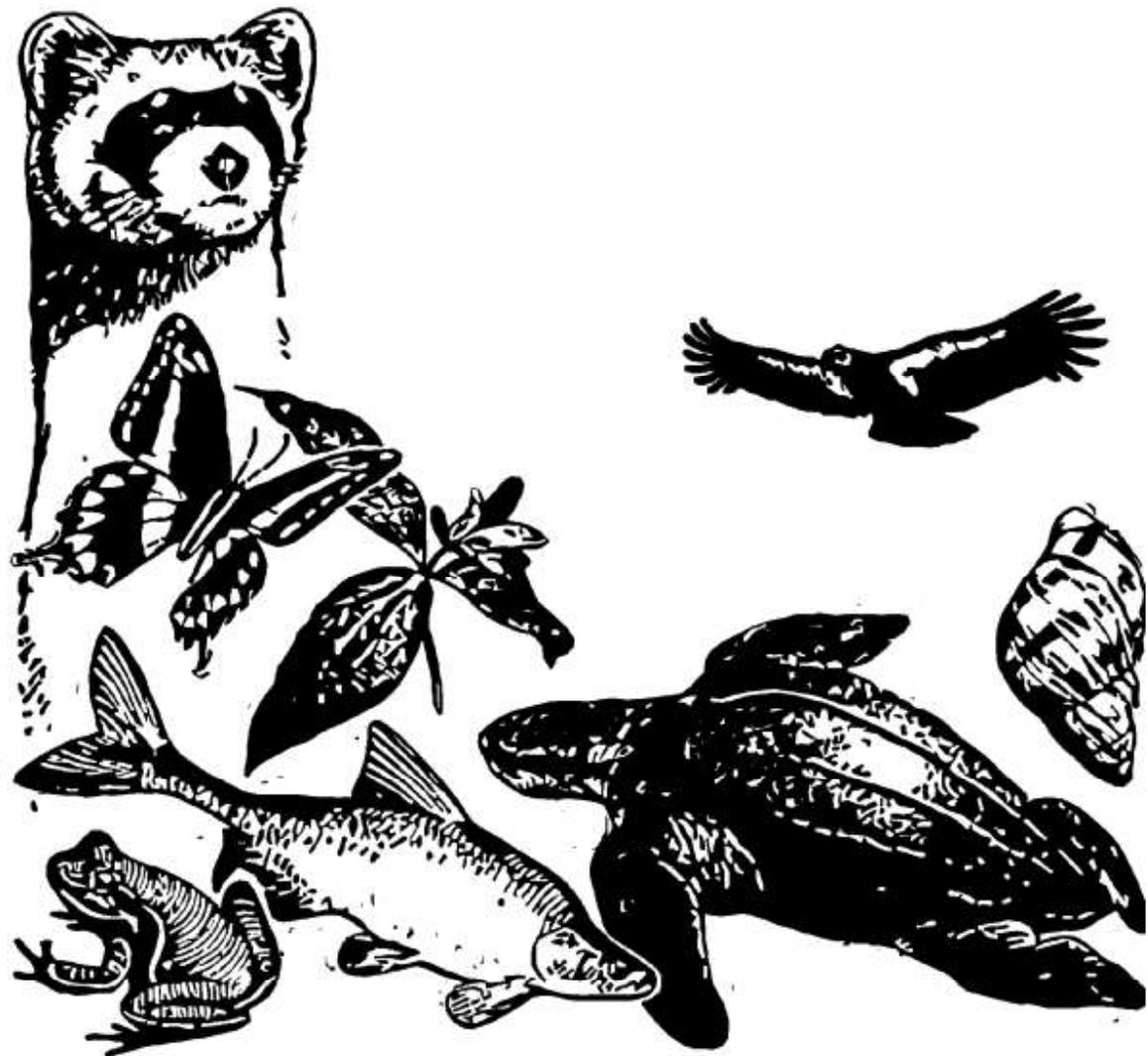
7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.
8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
9. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). If the PR boa was accidentally? killed as part of the project actions, please include information on what conservation measures had been implemented and what actions that will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

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

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

# General Project Design Guidelines (1 Species)

Generated October 23, 2023 11:44 AM UTC, IPaC v6.99.0-rc3



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# Species Document Availability

## Species with general design guidelines

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.

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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.
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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](mailto:jose_cruz-burgos@fws.gov)
  - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
  - Email: [jan\\_zegarra@fws.gov](mailto:jan_zegarra@fws.gov)
  - Office phone (786) 933-1451

## Amended Programmatic Biological Opinion (Version 1.1)

Recurrent development, infrastructure, and maintenance projects under the jurisdiction of the Federal Emergency Management Agency (FEMA), Federal Transportation Authority (FTA), Federal Highway Administration (FHA), U.S. Department of Housing and Urban Development (HUDS), USDA Rural Development (RD), U.S. Army Corps of Engineers (USACE), Environmental Protection Agency (EPA), USDA Natural Resources Conservation (NRCS) and/or Federal Communication Commission (FCC) in Puerto Rico and the U.S. Virgin Islands

FWS Log #: MM-173



Prepared by:

U.S. Fish and Wildlife Service  
Caribbean Ecological Services Field Office  
PO Box 491  
Boquerón, Puerto Rico 00622

**EDWIN MUNIZ** Digitally signed by EDWIN  
MUNIZ  
Date: 2023.07.25 08:29:03 -0400'

Edwin E. Muñoz, Field Supervisor

Date

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## EXECUTIVE SUMMARY

This Endangered Species Act (ESA) amended Programmatic Biological Opinion (PBO) of the U.S. Fish and Wildlife Service (Service) addresses urban and rural developments, as well as reconstruction and maintenance projects in Puerto Rico and U.S. Virgin Islands (USVI) funded or authorized by the Federal. These Actions are of Federal Nexus under the jurisdiction of the Federal Emergency Management Agency (FEMA), Federal Transportation Authority (FTA), Federal Highway Administration (FHA), U.S. Department of Housing and Urban Development (HUD), USDA Rural Development (RD), USDA Natural Resources Conservation Service (NRCS), U.S. Army Corps of Engineers (USACE), Environmental Protection Agency (EPA) and other Federal agencies. The Actions addressed in this PBO occur recurrently. The above agencies have previously consulted with the Service through Blanket Letters or informal consultations for most projects. However, after coordination with our Regional Office (RO), we are required to exempt the take resulting from the capture and relocation of the Puerto Rican boa (PR boa) and the Virgin Islands tree boa (VI boa) through a Biological Opinion as part of the formal consultation under Section 7 of the Act. Moreover, FEMA determined that the Actions listed below are likely to adversely affect the Puerto Rican boa and the Virgin Islands tree boa. Thus, we developed this PBO to cover all actions, including FEMA's and the other Federal agencies that have previously consulted or will consult in the future with the Service. Projects from any Federal agency that meet the conditions specified below, or that the Service determines will have similar effects on the Puerto Rican boa and Virgin Islands tree boa, may be appended to this programmatic consultation. This PBO concludes that the Actions are not likely to jeopardize the continued existence of these species. Neither the Puerto Rican boa nor the Virgin Islands tree boa have designated critical habitat. This conclusion fulfills the requirements applicable to the Actions for completing consultation under §7(a)(2) of the Endangered Species Act (ESA) of 1973, as amended, with respect to these species. Any Action not covered by this PBO that may affect the PR boa and the VI boa will need consultation with the Service on a case-by-case basis. This PBO does not apply to any other federally listed species or designated critical habitat, therefore, Federal agencies are required to consult with the Service for proposed projects that may affect other federally listed species.

The PBO includes an Incidental Take Statement (ITS; Section 6) that requires the Federal Agency and the Recipient to implement reasonable and prudent measures (Section 6.3) that the Service considers necessary or appropriate to minimize the impacts of anticipated taking on the listed species. Incidental taking of listed species that is in compliance with the terms and conditions (Section 6.4) of this statement is exempted from the prohibitions against taking under the ESA. This PBO (version 1.1) includes amended terms and conditions (Section 6.4, T&C 1) and monitoring and reporting requirements (Section 6.5).

In the Conservation Recommendations section, the PBO outlines voluntary actions that are relevant to the conservation of the listed species addressed in this PBO.

Reinitiating consultation is required if the Federal Agency and the Recipient retains discretionary involvement or control over the Action (or is authorized by law) when:

- (a) the amount or extent of incidental take is exceeded;

- (b) new information reveals that the Actions may affect listed species or designated critical habitat in a manner or to an extent not considered in this PBO;
- (c) the Actions are modified in a manner that causes effects to listed species or designated critical habitat not considered in this PBO; or
- (d) a new species is listed or critical habitat designated that the Actions may affect.

The Service will re-evaluate this programmatic consultation as required, to ensure that its continued application will not result in unacceptable effects on the Puerto Rican boa and the Virgin Islands tree boa.

## CONSULTATION HISTORY

This section lists key events and correspondence during the course of this consultation with FEMA, as well as previous consultations with other Federal agencies. A complete administrative record of this consultation is on file in the Caribbean Ecological Services Field Office (CESFO).

### Consultation with FEMA:

- 2017-09-05 Hurricane Irma struck the USVI and Puerto Rico.
- 2017-09-07 FEMA declared the USVI as an active disaster zone due to the strike of Hurricane Irma.
- 2017-09-10 FEMA declared Puerto Rico as an active disaster zone due to the strike of Hurricane Irma.
- 2017-09-20 Hurricane María struck the USVI and Puerto Rico.
- 2017-09-20 FEMA declared Puerto Rico and the USVI as an active disaster zone due to the strike of Hurricane María.
- 2017-11-06 The Service provided a technical assistance letter with BMPs as per emergency ESA consultation process including BMPs for recovery efforts of the electric systems in Puerto Rico to minimize and avoid impacts to listed species. The consultation process covered the emergency work to be performed by PREPA, and the USACE under Mission Assignment with FEMA.
- 2018-02-18 FEMA requests clarification of the BMPs and inclusion of additional work.
- 2018-03-15 The Service consulted and provide BMPs for the power lines in Rio Abajo Forest.
- 2018-03-18 The Service issued an addendum to the BMPs to include restoration action in addition to emergency actions.

- 2018-02-28 As part of a programmatic consultation under section 7 of the ESA with the Service to address impacts caused by natural disasters, FEMA developed a Matrix that included all their actions and the effects of those actions on federally listed species in Puerto Rico and the USVI. The purpose of the Matrix is to expedite the consultation process between FEMA and the Service given the large number of projects for the recovery of both Puerto Rico and the USVI as part of the disaster declarations due Hurricanes Irma and María.
- 2019-06-25 FEMA sent a letter to the Service requesting concurrence on the informal programmatic section 7 consultation using the Matrix.
- 2019-07-19 The Service sent a letter to FEMA concurring with the programmatic consultation and the use of the Matrix for effects determinations.
- 2020-05-08 The Service sent an email to FEMA proposing changes to the Matrix as part of the annual reporting requirements stipulated in the 2019-07-19 concurrence letter.
- 2020-07-22 The Service requested guidance to the Service's RO in Atlanta on the implementation of conservation measures developed during the programmatic consultation for the PR boa and VI boa that would result in a not likely to adversely affect determination for both species.
- 2020-10-07 The Service sent an email to FEMA informing that based on guidance from the RO, the conservation measures for the PR and VI boas, required to be modified since the capture and relocation of these species constitute take (as defined by the ESA) needed to be exempted by a Biological Opinion (BO) through a formal consultation under section 7 of the ESA.
- 2020-10-07 FEMA sent an email to the Service agreeing with the modifications and supporting the writing of this BO.
- 2023-07-24 The Service amended the first version of this Programmatic BO dated June 23, 2022, by revising the Terms and Conditions 1 (T&C 1) under Section 6.4 and Monitoring and Reporting Requirements under Section 6.5.1.

Previous Consultations with Other Federal Agencies:

- 2013-01-14 The Service issued a Blanket Clearance Letter for Federally sponsored projects to the HUD with the purpose of facilitate the evaluation of projects located on urbanized areas, vacant lots covered by grassland and/or disturbed scrubs in the U.S. Caribbean.
- 2013-01-14 The Service issued a Blanket Clearance Letter for Federally sponsored projects to the FHA with the purpose of facilitate the evaluation of projects located on

urbanized areas, vacant lots covered by grassland and/or disturbed scrubs in the U.S. Caribbean.

- 2014-07-24 The Service issued a Blanket Clearance Letter for Federally sponsored projects to the FEMA with the purpose of expedite the consultation process on Hazard Mitigation and Public Assistance Grant for project activities that typically result in no adverse effects to federally listed species in the U.S. Caribbean.
- 2018-02-09 The Service concurred with NRCS biological assessment consultation for the recovery of agricultural lands impacted by Hurricanes Irma and María.

## BIOLOGICAL OPINION

### 1. INTRODUCTION

A biological opinion (BO) is the document that states the findings of the U.S. Fish and Wildlife Service (Service) required under section 7 of the Endangered Species Act of 1973, as amended (ESA), as to whether a Federal action is likely to:

- jeopardize the continued existence of species listed as endangered or threatened; or
- result in the destruction or adverse modification of designated critical habitat.

As explained in the Consultation History above, a section 7 consultation with FEMA was the trigger to develop this BO. However, given there are other Federal agencies working on actions that also are likely to result in take of both PR and VI boas in the form of capture and relocation, we decided to develop a Programmatic Biological Opinion (PBO). A PBO addresses multiple actions on a program and/or regional basis, thus achieving efficiencies in the process. The Federal actions addressed in this PBO are urban and rural development, as well as reconstruction and maintenance projects in Puerto Rico and USVI funded or authorized by the Federal Emergency Management Agency (FEMA), Federal Transportation Authority (FTA), Federal Highway Administration (FHA), U.S. Department of Housing and Urban Development (HUD), USDA Rural Development (RD), USDA Natural Resources Conservation Service (NRCS), U.S. Army Corps of Engineers (USACE), Environmental Protection Agency (EPA) and other Federal agencies, hereafter the Action Agency. For the purposes of this PBO, all individual projects will be collectively referred to as the Actions. This PBO considers the effects of the Actions on the endangered Puerto Rican boa (listed as *Epicrates inornatus*, but currently recognized as *Chilabothrus inornatus*; PR boa) and the endangered Virgin Islands tree boa (listed as *Epicrates monensis granti*, but currently recognized as *Chilabothrus granti*; VI boa). Neither species has designated critical habitat, thus will not be addressed in this PBO. Information in this PBO regarding the PR boa and the VI boa has been summarized from the final Species Status Assessment (SSA) for the PR boa and the final SSA for the VI boa (Service 2018, 2021).

## **BO Analytical Framework**

A BO that concludes a proposed Federal action is *not* likely to *jeopardize the continued existence* of listed species and is *not* likely to result in the *destruction or adverse modification* of critical habitat fulfills the Federal agency's responsibilities under §7(a)(2) of the ESA.

*“Jeopardize the continued existence* means to engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species” (50 CFR §402.02).

*“Destruction or adverse modification* means a direct or indirect alteration that appreciably diminishes the value of critical habitat as a whole for the conservation of a listed species” (50 CFR §402.02).

The Service determines in a BO whether we expect an action to satisfy these definitions using the best available relevant data in the following analytical framework (see 50 CFR §402.02 for the regulatory definitions of *action*, *action area*, *environmental baseline*, *effects of the action*, and *cumulative effects*).

- a. *Proposed Action*. Review the proposed Federal action and describe the environmental changes its implementation would cause, which defines the action area.
- b. *Status*. Review and describe the current range-wide status of the species or critical habitat.
- c. *Environmental Baseline*. Describe the condition of the species or critical habitat in the action area, without the consequences to the listed species caused by the proposed action. The environmental baseline includes the past and present impacts of all Federal, State, or private actions and other human activities in the action area, the anticipated impacts of all proposed Federal projects in the action area that have already undergone formal or early consultation, and the impacts of State or private actions which are contemporaneous with the consultation.
- d. *Effects of the Action*. Predict all consequences to species or critical habitat caused by the proposed action, including the consequences of other activities caused by the proposed action, which are reasonably certain to occur. Activities caused by the proposed action would not occur but for the proposed action. Effects of the action may occur later in time and may include consequences that occur outside the action area.
- e. *Cumulative Effects*. Predict all consequences to listed species or critical habitat caused by future non-Federal activities that are reasonably certain to occur within the action area.
- f. *Conclusion*. Add the effects of the action and cumulative effects to the environmental baseline, and in light of the status of the species, formulate the Service's opinion as to whether the action is likely to jeopardize species or adversely modify critical habitat.

## 2. PROPOSED ACTIONS

On an annual basis, the number of developments, infrastructure and maintenance projects funded or authorized by FEMA, HUD, FTA, FHA, RD, USACE, EPA, NRCS and other Federal agencies will largely be influenced by funding availability and needs. Some of the actions occur on a recurring basis and some due to an emergency response after a disaster. In general, the Actions reviewed under this PBO entails the maintenance, repair, and/or improvement of already existent infrastructure and/or that falls within existing footprint or urbanized areas, vacant lots covered by grassland and/or shrub vegetation, among others. However, there might be Actions that entail new constructions, expansions, or extension beyond existing footprints on already disturbed areas, within existing rights of ways (ROWS) or in undisturbed forested habitat. Actions that fall under this PBO are projects that may adversely affect the PR boa and the VI boa, either by take of individuals and/or temporary disturbance or permanent loss of habitat. The following Actions resulting from projects that meet the descriptions specified below are covered by this PBO. Any other project that the U.S. Fish and Service determines will have similar effects on the PR boa and the VI boa, may be appended to this programmatic consultation.

Any Action not covered by this PBO that may affect the PR boa and the VI boa will need consultation with the Service on a case-by-case basis. This PBO does not apply to any other federally listed species or designated critical habitat not specifically included in this PBO. Therefore, Federal agencies are required to consult with the Service for proposed projects that may affect other federally listed species.

### A. Development projects:

- a. Residential;
  - i. Rebuilding, demolition and/or replacement of houses or buildings (public and private).
  - ii. Elevation of residential homes and associated structures and utilities occurring on disturbed and regularly maintained property, including the staging of equipment.
- b. Commercial;
  - i. Demolition and/or replacement of commercial building to restore the facility to its pre-disaster condition.
- c. Parks and recreational areas;
  - i. Repair and/or replacement of recreational structures (bleachers, playground equipment, pools, tennis courts, basketball courts, gazebos, baseball diamonds, gymnasium equipment, bath houses, kiosks, picnic tables, etc.).
- d. New construction work which expands the footprint of an existing structure and occurs entirely on disturbed, regularly maintained, upland, including the staging of equipment.

### B. Infrastructure projects:

- a. Utility and Telecommunication: new and existing towers and associated infrastructure (e.g., facilities, roads)

- i. Excavation, repair and/or replacement of utility lines and associated appurtenances.
    - ii. Maintenance of access roads to utility facilities and associated structures, and telecommunication towers.
    - iii. Construction of telecommunication facilities within disturbed areas.
  - b. New road construction and maintenance and associated structures within ROWs;
    - i. Repair, improvement, replacement of roads, bridges and highways.
    - ii. Construction of gutters and sidewalks along existing roads.
    - iii. Rehabilitation of facilities of an already established Public Transportation System (signs, sidewalks and ramps, bus stops and existing routes).
    - iv. Expansion of Public Transportation facilities.
    - v. New construction of facilities for Public Transportation System.
    - vi. In-kind replacement of eroded sections of non-beach fill including soil, gravel, crushed stone, gravel, soft armoring with biomaterials.
    - vii. Repair and/or replacement of a hardened roadway or pedestrian walkway and associated structures (retaining walls, guard rails, curbs, elevation, road signs, lampposts, traffic signals, etc.).
  - c. Repair and/or replace coastal structures;
    - i. Boardwalks.
    - ii. Repair or replacement of coastal wetlands.
  - d. Repair and/or replacement of a fence.
  - e. Repair and/or replacement water structures;
    - i. Storm water management facility
    - ii. Engineered shoreline and/or bank stabilization structure.
    - iii. Bridge, culvert or storm water outfall.
    - iv. Engineered drainage channel.
  - f. Installation of a permanent, back-up emergency generator and/or quick connect switch, and all associated structures (e.g., concrete pad, electrical connections, etc.).

### **C. Maintenance projects**

- a. Redistribution/grading of beach material from adjacent sources
- b. Dredging/clearing of an engineered drainage channel which does not alter the channel's pre-disaster width, depth, grade, or course, provided that bank vegetation is kept intact.
- c. Clearing and snagging with the intent to reduce risk for further flood damage by removing storm mediated vegetative debris and sediments from streams channels to restore flow capacity.
- d. Streambank stabilization, clearing and snagging and/or critical area planting with the intent of restoration flow capacity of artificial and natural waterways to mitigate flood risk.
- e. Debris removal on natural or improved waterways.
- f. Woody and structural debris removal on agricultural lands.
- g. Hydroseeding/mulching over recently placed fill.
- h. Post hurricane debris removal.

The main activities within the proposed Actions are listed below. These types of activities pose danger to the boas as they are secretive animals, are slow movers, and typically hide under debris piles and dense vegetation. However, both PR boas and VI boas could be safely removed out of harm's way and relocated into a safe location. Thus, this PBO covers the capture and relocation of PR and VI boas to remove them from harm's way when engaging on any of the actions described below. For all activities associated to the Actions, the Service has added terms and conditions to minimize any harm to boa individuals (See terms and conditions below.). Therefore, engaging on any of the following actions requires following Terms and Conditions stated in section 6.4 of this PBO.

## **2.1. Construction work:**

Construction activities related to rebuilding, repairing, replacing, or installations will be conducted on a needed basis. Many of the construction activities do not extend outside current existent footprint, or outside already disturbed areas. Nevertheless, some actions may require extension or expansion from existing footprint, and therefore, areas surrounding the original project footprint may be negatively impacted, such as forested areas. The preparation of this areas for construction may require the use of heavy machinery (see clearing area below). Additionally, heavy machinery might be use for transportation of construction materials and other construction activities, which could result on the impact to boa individuals. Heavy machinery also needs to be stored during not working hours (See staging areas below).

## **2.2. Demolition:**

Demolition associated to infrastructure that is no longer functioning or has been damaged, will be conducted based on needs. This activity does not extend outside existent footprint. Boas may use infrastructures as shelters and might be injured or killed during demolition activities.

## **2.3. Staging areas:**

Staging areas are places where equipment, a temporary field office, and/or materials are temporarily stored or located in preparation for the construction, repair, demolition or maintenance work. These areas are typically cleared and located within or adjacent to the Action site. Equipment left on staging areas overnight might function as shelters for boas, and individuals would likely be injured or killed the following day as a result of equipment operation.

## **2.4. Vegetation and debris management:**

Clearing, access road maintenance and other activities that entails removing above-ground vegetation or debris, generally takes place within pre-marked areas necessary for the proposed Action. However, there might be Actions that might entail expansions beyond existing footprints and might require clearing of forested vegetation, of already previously disturbed land, for which the use of heavy machinery might be needed for site preparation and/or debris removal. Access road maintenance when done by hand does not require heavy machinery, but it

does impact habitat by removing vegetation. Boa individuals present in the area might be injured or killed during vegetation and debris management using heavy machinery.

## **2.5. Other Activities Caused by the Actions:**

A BO evaluates all consequences to species or critical habitat caused by the proposed Federal action, including the consequences of other activities caused by the proposed action, that are reasonably certain to occur (see definition of “effects of the action” at 50 CFR §402.02). Additional regulations at 50 CFR §402.17(a) identify factors to consider when determining whether activities caused by the proposed action (but not part of the proposed action) are reasonably certain to occur. These factors include, but are not limited to:

- (1) past experiences with activities that have resulted from actions that are similar in scope, nature, and magnitude to the proposed action;
- (2) existing plans for the activity; and
- (3) any remaining economic, administrative, and legal requirements necessary for the activity to go forward.

Although the species’ natural habitat is not expected to be impacted, urban expansion into rural, forested habitat may increase human-boa interactions, which can negatively affect individual boas. Human-boa conflicts, such as roads, persecution by humans, and predation by domestic and invasive species are considered limiting factors for the PR boa and VI boa, particularly if adjacent to forested suitable habitat. Actions that occur within purely and entirely developed areas that are not adjacent or within forested suitable habitat, are not expected to affect the species.

## **2.6. Action Area**

The action area (AA) is defined as “all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action” (50 CFR §402.02). Delineating the AA area is necessary for the Federal action agency to obtain a list of species and critical habitats that may occur in that area, which necessarily precedes any subsequent analyses of the effects of the action to particular species or critical habitats.

Since this PBO collectively evaluates a large number of individual projects, the AA includes all projects related to the Actions throughout all of Puerto Rico and the U.S. Virgin Islands, and is hereafter referred to as the Programmatic AA.

It is practical to treat the AA for a proposed Federal action as the spatial extent of its direct and indirect “modifications to the land, water, or air” (a key phrase from the definition of “action” at 50 CFR §402.02). Indirect modifications include those caused by other activities that would not occur but for the action under consultation. The AA determines any overlap with critical habitat, but none has been designated for this species. For the PR boa and VI boa, the AA establishes the

bounds for an analysis of individuals' exposure to action-caused changes, but the subsequent consequences of such exposure to those individuals are not necessarily limited to the AA.

### **3. SOURCES OF CUMULATIVE EFFECTS**

A BO must predict the consequences to species caused by future non-Federal activities within the AA, *i.e.*, cumulative effects. "Cumulative effects are those effects of future State or private activities, not involving Federal activities, that are reasonably certain to occur within the action area of the Federal action subject to consultation" (50 CFR §402.02). Additional regulations at 50 CFR §402.17(a) identify factors to consider when determining whether activities are reasonably certain to occur. These factors include, but are not limited to, existing plans for the activity; and any remaining economic, administrative, and legal requirements necessary for the activity to go forward.

Since this programmatic biological opinion considers all Puerto Rico and U.S. Virgin Islands as the AA, non-Federal activities are expected to occur within the range of various Federally protected species, including the PR and VI boa, and will contribute to cumulative effects to the species. Species with small population sizes, endemic locations, or slow reproductive rates will generally be more susceptible to cumulative effects. Cumulative effects will be further analyzed at the local landscape scale, as appropriate, during a step-down ESA Section 7(a)(2) consultation, when site- and species-specific information is reviewed by local Service biologists familiar with the project area and the biology of local species.

### **4. PUERTO RICAN BOA AND VIRGIN ISLANDS TREE BOA**

This section provides the Service's biological opinion of the Actions for the PR boa and VI boa.

#### **4.1. Status of PR boa and VI tree boa:**

This section summarizes best available information about the biology and condition of the endangered PR boa and VI boa throughout their range, that are relevant to formulating an opinion about the Actions. The Service published its decision to list the PR boa as endangered in 1970 (35 FR 16047). For the VI boa, the Service published its decision to list the species as endangered in 1970 (35 FR 16047), and again under a different taxonomic classification in 1979 (44 FR 70677). A Species Status Assessment (SSA) was recently completed for the VI boa and compiles the most recent information available for this species (available online at <https://ecos.fws.gov/ecp/species/3247>) (Service 2018). Similarly, an SSA is being completed for the PR boa and compiles the most recent information for the species. The following information in the subsections below was obtained from those SSAs.

##### **4.1.1. Species Description**

The PR boa is a large (on average 3 to 6 feet (ft)), semi-arboreal and nonvenomous snake with color variations from tan to very dark brown and some black body markings. Dorsal coloration of the PR boas is variable and has been described from tan to reddish brown to very dark brown, with several dark bars or spots along its body, and juveniles may have reddish color (Rivero

1998). Body markings are usually more pronounced in neonates and juveniles, but those markings tend to fade with age (Joglar 2005). The ventral scales also vary from gray to dark brown (Rivero 1998).

The VI boa is a medium length (on average 2-3 ft), slender, nonvenomous snake. Adults are gray-brown with dark brown blotches that are partially edged with black, and may feature a blue-purple iridescence on their dorsal surface; the ventral surface is creamy white or yellowish white. Neonates on the other hand have an almost greyish-white body color with black blotches. The head is arrow-shaped, with a blunt nose and silvery eyes.

#### **4.1.2. Life History**

The actual life span of the PR boa in the wild is unknown, but there are captive records over 20 years and suggestions that they might live between 20 and 30 years (Rivero 1998). Courtship and mating for the PR boa is considered seasonal and reproduction in the wild appears to be mostly biennial. Although there can be some variability on when the PR boa reproductive activity starts, research suggests that courtship for most *Chilabothrus* (also *Epicrates*) starts in February (Tolson 1994) and that mating for most PR boas is reported to occur at the beginning of the wet season, from late April to May (Tolson and Henderson 1993). Young PR boas are born after a gestation period of approximately 5-6 months (Huff 1978, Rivero 1998). Puente-Rolón (2012) reported PR boa courtship occurring between March and May, while most parturition occurs from August to November. Thus, the reproductive cycle of the PR boa is synchronized with the seasonal patterns of precipitation and temperature in Puerto Rico (Huff 1978, Tolson and Henderson 1993, Puente-Rolón 2012).

For the VI boa, much of what is known about its life history comes from studies in captivity. Life spans in captivity often exceed 20 years, and can exceed 30 years, but typical life spans in the wild are not known. Females breed biennially, but studies have suggested that annual breeding may occur in some conditions. Courtship behaviors and copulation occur from February through May, and interaction with conspecifics of the opposite sex appears to be necessary for reproductive cycling. The gestation period, observed from a single known copulation between two individuals, is about 132 days (Tolson 1989). VI boas give birth to live young from late August-October to litters of 2-10 young, and litter size increases with female body size.

Both VI and PR boas are considered mostly nocturnal but can also be active during the day. The two species forage, bask, and disperse using trees but use terrestrial refugia as well. The VI boa forages at night by gliding slowly along small branches in search of sleeping lizards. While PR boa uses both ambush and active foraging modes. The primary prey for the VI boa is Anole lizards (*Anolis* sp.) but can also consume other prey such as small birds, green iguana hatchlings and mice and rats. For PR boa adults, the main food source are rats, but may include other prey such as bats, lizards, birds (including domestic fowl), and frogs.

#### **4.1.3. Distribution and Abundance**

The PR boa is endemic to Puerto Rico, where it has been reported in all the 78 municipalities. However, we do not know the specific details of these accounts or if they represent isolated occurrences in some municipalities. Despite several anecdotic reports of large snakes in Vieques Island, there is surprisingly only one confirmed PR boa sighting within the west side of the Vieques National Wildlife Refuge from 2010 (Barandiaran 2014, Service, pers. comm.). Reynolds and Henderson (2018) do suggest the species was likely extirpated from Vieques, but do not provide further explanation. There is also only one confirmed PR boa sighting from Culebra Island in 2013, but genetic analysis suggests it may have been introduced by humans from Puerto Rico (Reynolds and Puente-Rolón 2014), which could have been the same case for the Vieques sighting. Based on the available information, it is unlikely that there is a PR boa population in either Vieques or Culebra. The PR boa neither occur in any other offshore islands such as Mona, Monito or Desecheo Islands, etc.

In general, the PR boa is considered more abundant now than at the time of listing (1970) and more abundant in the karst region of northern Puerto Rico, and less abundant in the dry southern region of the Island (Rivero 1998). Available density estimates for the PR boa range from 1.24 to 5.6 boas/ha (Mulero-Oliveras 2019, Ríos-López and Aide 2007, Tolson 1997). A recent population model for PR boa suggests a current island-wide estimated population size of more than 30,000 PR boas (Tucker et. al 2020).

The VI boa is endemic to Puerto Rico and the Virgin Islands (U.S. and British). Presently, the species is known to occur on 6 islands in Puerto Rico and USVI: the eastern Puerto Rican islands of Cayo Diablo, Culebra, and Cayo Ratones (introduced); Río Grande on the Puerto Rican mainland; and St. Thomas and an offshore cay in USVI (introduced). The species is also known or thought to occur, either presently or historically, on Tortola Island, Jost Van Dyke, Guana Island, Necker Cay, Great Camanoe, and Virgin Gorda of the British Virgin Islands, but data and confirmed observations are severely limited.

In St. Thomas, the VI boa seems to be restricted to the extreme eastern end where the climate is drier and hotter than other regions of the island. In 1991, a conservative estimate of 300-400 VI boas in St. Thomas was suggested, all within rapidly dwindling habitat (Tolson 1991). In 2009, the abundance of the species in its range within the US jurisdiction was estimated to be at approximately 1,300 - 1,500 boas (Service 2009). A more recent estimate of fewer than 100 VI boas in St. Thomas was made using genetic analysis (Reynolds et al. 2015). However, these population estimates are sporadic, limited, and uncertain. There are no areas within the range of the VI boa on St. Thomas that are protected and managed for conservation.

#### **4.1.4. Conservation Needs and Threats**

Where PR and VI boas occur close to urban settlements, development threatens their populations. Consequences of human expansion on boa habitat include habitat loss and fragmentation, as land is deforested for urban and tourism development, areas of suitable habitat are increasingly isolated from each other. Direct impacts on boas include roadkill, predation by domestic and feral cats associated with human populations, predation or competition with other

exotic snake species, and/or persecution by humans. Also, the species are affected by inadequate translocations, emergent diseases, post-hurricane debris management, and by the effects of climate change, particularly increasing sea levels, and frequency of intense hurricanes. Conservation actions that have benefited the VI boa include captive breeding and subsequent reintroductions, and rat eradication efforts. For the PR boa, conservation actions include designation of protected areas all over Puerto Rico, research, and implementation of conservation measures during development projects. Other influential factors include negative public attitudes towards snakes, need for education and outreach, genetics (i.e., inbreeding), and the financial resources and political will to carry out conservation (Service 2018).

## **4.2. Environmental Baseline for VI and PR boas**

This section is an analysis of the effects of past and ongoing human and natural factors leading to the current status of the PR and VI boas, its habitat, and ecosystem within the Programmatic AA. The environmental baseline is a “snapshot” of both species’ condition in the Programmatic AA at the time of the consultation and does not include the effects of the Actions under review.

### **4.2.1. Action Area Numbers, Reproduction, and Distribution**

The Actions occur island wide in Puerto Rico and the U.S. Virgin Islands, and varies yearly based upon need, funding, agency, and/or disaster occurrence. Therefore, the species’ occurrence within a project’s AA will depend on the project’s location.

The PR boa is currently thought to be more abundant than at the time of listing and has a wide distribution in Puerto Rico, but not uniformly abundant. Available density estimates for the PR boa range from 1.24 to 5.6 boas/ha (Mulero-Oliveras 2019, Ríos-López and Aide 2007, Tolson 1997) depending on the landscape in which they occur, with lower expected densities within urban landscapes. The PR boa is known to occur within both urban and rural landscapes, particularly if associated to forested areas. Thus, AAs in urban and rural areas within or adjacent to forested areas, would be more likely to encounter this species.

The VI boa has a more limited distribution in Puerto Rico and the USVI. In Puerto Rico, there are 4 known populations: one in the municipality of Río Grande, another on Culebra Island, and the offshore cays of Cayo Diablo and Cayo Ratones. In the USVI, the species is limited to the eastern half of St. Thomas and an offshore cay in the USVI. All of the known populations of the VI boa are considered relatively small and their current population trends are considered either declining, potentially declining, or unknown (Service 2018). The VI boa also occurs in habitat patches encroached by developed areas, therefore any AA within the reported locations of the species and near suitable habitat patches would be more likely to encounter this species.

Both the PR and VI boa are considered primarily active at night, mostly arboreal, and have a low detection probability due to their cryptic behavior and inactivity while sheltering. All of the boa’s life stages from neonate to adult may be encountered depending on the specific location of the AA. Both species may also be found within undocumented areas of occurrence, particularly if the areas present suitable habitat.

#### **4.2.2. Action Area Conservation Needs and Threats**

Human activity such as urbanization, road construction, and development, has caused habitat modification and degradation, resulting on habitat fragmentation, boa displacement, and increased human-boa interactions that may result in detrimental effects to the species. Thus, the need for effective implementation of management strategies (e.g., habitat protection and enhancement, search for boas within AAs, and implementation of an appropriate boa relocation program) to reduce those detrimental effects (see Section Terms and Conditions).

Under this PBO, the AA lies within public and private land in both rural and urban landscapes, including, but not limited to forested lands, wetlands, creeks, rivers, and coastal habitats. Although most of the Actions covered under this PBO are within existent footprints on already disturbed areas, some are within or adjacent to forested habitat that may harbor suitable habitat for the PR and VI boa. Actions that occur within purely developed areas and are not within or adjacent to forested habitat, should have minimal to no impact on the species. Impacts could be greater for actions which expand or extend beyond the existing footprint, particularly those that occur within or adjacent to forested areas where boas are prone to occur. Impacts may also apply to areas that have been previously abandoned, including buildings or structures where vegetation has overgrown. Potential impacts can also be expected from those AA that have accumulated debris piles which needs to be removed or shred, particularly if debris piles are placed within or near forested and/or abandoned areas. Boas are known to enter buildings or other structures, as well as use debris piles to seek food or shelter, and thus, care should be taken as well in order to avoid and minimize potential effects on the species.

#### **4.3. Effects of the Actions on the PR and VI boas**

In a BO for a listed species, the effects of the proposed action are all reasonably certain consequences to the species caused by the action, including the consequences of other activities caused by the action. Activities caused by the action would not occur but for the action. Consequences to species may occur later in time and may occur outside the AA.

We identified and described the activities included in the proposed Action in section 2.1. We identified and described other activities caused by the proposed Actions in section 2.2. Our analyses of the consequences caused by each of these activities follows.

##### **4.3.1. Construction Work**

Change Caused by the Activity: Construction work could result in permanent loss of PR and VI boa habitat within the AA. Additionally, any construction that requires the use of heavy machinery could result on the direct killing of a boas. Construction could also expand from existing footprints, impacting forested habitat nearby and, therefore, boa habitat.

Exposure to the Change: We expect all PR and VI boas (adults and juveniles) within the range of an AA to be exposed during the proposed activity and, after construction is completed if boas venture into the developed AA.

Consequences Resulting from Exposure: Individual PR and VI boas (adults or juveniles) within an AA could be either be killed or injured due to activities related to construction, for example: as heavy machinery move through the AA or construction material is transported and deposited in the AA. Also, the area would no longer provide habitat for the boas, thus reducing overall habitat available for the species.

#### **4.3.2. Demolition**

Change Caused by the Activity: Demolition of existing structures could result on the direct killing of the boas by use of heavy machinery or falling debris.

Exposure to the Change: We expect all PR and VI boas (adults and juveniles) within the range of an AA to be exposed during the proposed activity. However, we do not expect a high abundance of PR and VI boas because the AAs have already been disturbed.

Consequences Resulting from Exposure: Individual PR and VI boas (adults or juveniles) within an AA could be either be killed or injured as demolition is being completed. Any PR and VI boa killed as a result of an Action would reduce the species' population number, recruitment potential, and likely the genetic variability of the species.

#### **4.3.3. Staging areas**

Change Caused by the Activity: Staging areas are mainly areas near the AA cleared (see Land clearing below) to maintain equipment and other heavy machinery. Additionally, this machinery is sometimes used by boas as shelters, threatening their survival.

Exposure to the Change: The individuals will be exposed to these threats while the Action is being completed.

Consequences Resulting from Exposure: Individual PR and VI boas (adults or juveniles) within an AA could be either be killed or injured as vegetation and debris piles are cleared or can also be relocated out of harm's way if found before disturbance. Also, the area would no longer provide habitat for the boas, thus reducing overall habitat available for the species. Any PR and VI boas killed as a result of an Action would reduce the species' population number, recruitment potential, and likely the genetic variability of the species.

#### **4.3.4. Vegetation and debris management**

Change Caused by the Activity: Land clearing, vegetation management and debris removal could result in permanent loss of PR and VI boa habitat within an AA and surrounded areas. For example, the use of heavy machinery for land clearing will result in habitat loss and can also cause direct killing to the boas. Similarly, vegetation management without the use of heavy machinery, could also result on habitat loss or direct boa individual kills.

Exposure to the Change: We expect all PR and VI boas (adults and juveniles) within the range of an AA to be exposed during the proposed activity and, after construction is completed if boas

venture into the developed AA. However, we do not expect a high abundance of PR and VI boas because most AAs have already been disturbed.

Consequences Resulting from Exposure: Individual PR and VI boas (adults or juveniles) within an AA could be either be killed or injured as vegetation and debris piles are cleared or can also be relocated out of harm's way if found before disturbance. Also, the area would no longer provide habitat for the boas, thus reducing overall habitat available for the species. Any PR and VI boas killed as a result of an Action would reduce the species' population number, recruitment potential, and likely the genetic variability of the species.

#### **4.3.5. Other Activities Caused by the Action**

PR and VI boas may return to the AA during construction and operation. The Actions that increase human-boa interaction also increase the possibility of injury and death of individual boas. For example, boas could be injured or killed by cars, poachers, humans, and domestic animals. In addition, human activity will attract exotic mammals such as cats, further increasing risk to the boas.

#### **4.3.6. Summary**

The proposed Actions may cause adverse effects on the PR boa and VI boa by accidental injury or death from construction activities, vegetation and debris management, demolitions and preparation of staging areas as well as having heavy machinery overnight in the AA or nearby. Boas are expected to be impacted on AAs close to forested habitat compared to urban areas and on those Actions that require extending existing footprint. Consequences include a reduction in the species' abundance. Therefore, we expect captures and relocations to occur in the future in order to remove boa individuals out of harm's way.

### **4.4. Cumulative Effects on the VI and PR boa**

Cumulative effects include the effects of future Commonwealth, Territory, local or private actions that are reasonably certain to occur in the AAs considered in this PBO. Future Federal actions that are unrelated to the proposed actions are not considered in this section because they require separate consultation pursuant to section 7 of the ESA.

Since actions will occur within all Puerto Rico and U.S. Virgin Islands in unknown areas, cumulative effects are likely to occur. Therefore, cumulative effect will be reviewed case by case during the project review and the approval to be covered under this amended PBO.

### **4.5. Conclusion for VI and PR boa**

In this section, we summarize and interpret the findings of the previous sections (status, baseline, effects, and cumulative effects) relative to the purpose of the PBO for the VI boa and PR boa, which is to determine whether the Action is likely to jeopardize its continued existence.

## **Status**

The PR and VI boas are both considered endangered throughout their range. Nevertheless, the PR boa is considered a habitat generalist and have a broad distribution in Puerto Rico, particularly in the northern karst region. Loss of habitat and fragmentation due to urban development and human expansion is one of the major factors that affect these species.

## **Baseline**

According to the information provided, any Action completed within urban areas and not surrounded by forested habitat, is not likely to hold boas or have a high abundance of PR or VI boas. In contrast, Actions that occur in rural areas or have nearby forested areas are likely to hold a greater abundance of PR and VI boas.

## **Effects**

The proposed Action may directly affect the PR and VI boa through injury or death caused by mechanized land clearing or debris removal, construction, boas hidden on engine vehicle compartment, and demolition. Thus, consequences include a potential loss of individuals. Capture and relocation of boas is an effective nonlethal mechanism of removing individuals out of harm's way. Although quantifying the number of PR boas and VI boas taken through nonlethal relocation is difficult because boas are not uniformly distributed, and we have no way of knowing how exactly many future projects will occur or where they will occur, we used species behavior, distribution, population size estimates and previous consultations, to estimate boa individual take in the form of capture and relocation (see section Amount or Extent of Take).

## **Cumulative Effects**

Cumulative effects will be evaluated on a case-by-case basis.

## **Opinion**

After reviewing the status of both the PR boa and VI boa, both species have demonstrated to be resilient to stochastic events and based on their current known distribution, estimated population numbers, environmental baseline for the AA, the effects of the Actions, and the cumulative effects, it is the Service's biological opinion that level of expected take, in the form of capture and relocation, is not likely to jeopardize the continued existence of either PR boa or VI boa.

## **5. CRITICAL HABITAT FOR VI AND PR BOA**

There is no federally designated critical habitat for the PR boa nor VI boa.

## 6. INCIDENTAL TAKE STATEMENT

ESA §9(a)(1) and regulations issued under §4(d) prohibit the take of endangered and threatened fish and wildlife species without special exemption. The term “take” in the ESA means “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct” (ESA §3(19)). In regulations, the Service further defines:

- “harm” as “an act which actually kills or injures wildlife. Such act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering;” (50 CFR §17.3) and
- “incidental take” as “takings that result from, but are not the purpose of, carrying out an otherwise lawful activity conducted by the Federal agency or the Recipient” (50 CFR §402.02).

Under the terms of ESA §7(b)(4) and §7(o)(2), taking that is incidental to a Federal agency action that would not violate ESA §7(a)(2) is not considered prohibited, provided that such taking is in compliance with the terms and conditions of an incidental take statement (ITS).

The Actions considered in this PBO include terms and conditions to avoid and minimize impacts as outlined in Section 2 of this document. This includes the capture and relocation of boa found on AAs, and which are in harm’s way. Because the capture and relocation of boas is the result of an otherwise lawful action, such capture and relocation is considered incidental take, and no section 10a1A permit for such capture and relocation is required.

Through this statement, the Service exempts take from this Action as described and contemplated by this PBO from being considered prohibited take under section 9. Exception to the prohibitions against trapping, capturing, or collecting listed species.

For the exemption in ESA §7(o)(2) to apply to the Action considered in this PBO, the Federal Agency and the Recipient must undertake the non-discretionary Reasonable and Prudent Measure and their Terms and Conditions described below. These terms and conditions must become binding conditions of any permit, contract, or grant issued for implementing the Action. Consistent with ESA section 7(b)(4)(C)(iv), the Federal Agency and the Recipient has a continuing duty to regulate the Action activities covered by this ITS. The Federal Agency is responsible for the Action activities covered by this ITS that are under its control and are not under their jurisdiction. The protective coverage of §7(o)(2) may lapse if the Federal Agency and the Recipient fails to:

- assume and implement the terms and conditions; or
- require a permittee, contractor, or grantee to adhere to the terms and conditions of the ITS through enforceable terms that are added to the permit, contract, or grant document.

In order to monitor the impact of incidental take, the Federal Agency and the Recipient must report the progress of the Action and its impact on the species to the Service as specified in this ITS.

## 6.1. Amount or Extent of Take

This section specifies the amount or extent of take of listed wildlife species that the Action is reasonably certain to cause. Based on the Effects of the Action analysis above, the Service anticipates that take in the form of capture and relocation of boas is likely to occur as a result of the proposed Actions.

For PR boa, we estimate that as many as 20 individuals may be relocated per year. We reached this number based on the total number of boas that were encountered (dead and alive) during the island-wide debris management project after Hurricane María (Service 2021). This is the maximum number of PR boas ever encountered for one island-wide project. Due to species cryptic nature and island-wide distribution we expect that no more than 20 PR boas will be encountered per year for all projects.

For VI boa, we estimate that 5 VI boa individuals may be relocated per year. This number is based on a previous Biological Opinion (Service 2020). We have no information of this species ever been encountered in previous projects where section 7 consultations have been conducted. Due to species limited distribution, and small population size we expect that no more than 5 VI boas will be encountered per year for all projects.

Table 6-1 identifies the species, life stage(s), estimated number of individuals, and the section of the PBO that contains the supporting analysis. We describe procedures for monitoring take that occurs during Actions' implementation for the PR and VI boa in section 6-4.

As shown in Table (6-1), the Service exempts take in the form of capture and relocation of 20 PR boa individuals and 5 VI boa individuals, only if it aims to remove the individuals from harm's way during projects implementation.

**Table 6-1.** Estimates of the amount of take (# of individuals) caused by the Actions by species, life stage, and form of take, collated from the cited BO effects analyses.

Common Name	Life Stage	# Of Individuals	Form of Take	BO Effects Analysis Section
PR boa	Adult or juvenile	20	Capture or Release	No Jeopardy
VI boa	Adult or juvenile	5	Capture or Release	No Jeopardy

## 6.2. Effect of take

In the accompanying biological opinion, population models for PR boa suggest a population density ranging from 1 to 6 individuals per hectare for the entire island of Puerto Rico (Service 2021). With regards to VI boa, population estimates are uncertain. However, the species is distributed throughout 6 islands in Puerto Rico and USVI, and at Virgin Gorda in British Virgin Islands. Several intents of population estimate have been made for the VI boa throughout its

range. In 1991, a conservative estimate of 300-400 VI boas in St. Thomas was suggested, all within rapidly dwindling habitat (Tolson 1991). In 2009, the abundance of the species within its range in U.S. jurisdiction was estimated to be approximately 1,300 - 1,500 individuals (Service 2009). A more recent estimate of fewer than 100 VI boas in St. Thomas was made using genetic analysis (Reynolds et al. 2015). However, these population estimates are sporadic, limited, and uncertain.

Both species have demonstrated to be resilient to stochastic events and based on their current known distribution and estimated population numbers, the Service determined that the level of expected take is not likely to result in jeopardy of either species.

### **6.3. Reasonable and Prudent Measures**

The Service believes the reasonable and prudent measures (RPMs) described in this section for PR and VI boas are necessary or appropriate to minimize the impacts, (*i.e.*, the amount or extent) of incidental take caused by the Actions.

**RPM 1.** The Service requires the Federal Agency and Recipient to ensure projects are conducted and operated as designed, planned, documented, and reported.

**RPM 2.** The Service requires the Federal Agency and Recipient to strictly follow Terms and Conditions below while capturing, handling, transporting, temporary holding, and relocating PR and VI boas in order to minimize the risk of injury and mortality to the species.

### **6.4. Terms and Conditions**

In order for the exemption from the take prohibitions of §9(a)(1) and of regulations issued under §4(d) of the ESA to apply to the Action, the Federal Agency and the Recipient must comply with the terms and conditions (T&Cs) of this statement, provided below, which carry out the RPMs described in the previous section. These T&Cs are mandatory. As necessary and appropriate to fulfill this responsibility, the Federal Agencies must require any permittee, contractor and recipient to implement these T&Cs through enforceable terms that the Federal Agency include in the permit, contract, or grant document.

**T&C 1 (RPM 1). The Service and the Federal Agency will ensure take levels do not exceed levels anticipated in this PBO.**

1. Inform all project personnel about the potential presence of the PR and VI boa in areas where the proposed work will be conducted and provide training session on PR and VI boa identification. A pre-construction meeting will be conducted to inform all project personnel about the need to avoid harming these species. An educational poster or sign with photo or illustration of these species will be displayed at the project site.
2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project area and areas to be excluded and protected will be clearly

marked in the project plan and in the field in order to avoid further habitat degradation outside of the AA.

3. Once areas are clearly marked, and right before the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or designated project personnel with experience on these species will survey the areas to be cleared to verify the presence of any PR or VI boa within the AA. If a PR or VI boa is found during the search, it should be captured and managed as per #6 below. Once the removal of vegetation begins, the biologist or designated personnel must remain at the work site and be ready to capture any boa that might be in harm's way as the result of the habitat disturbance (see #6).
4. For VI boas, once the area has been searched, vegetation will be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow VI boas present on site to move away on their own to adjacent available habitat. If there is no suitable habitat adjacent to the project site, any VI boa found will be relocated accordingly (see #6).
5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. Data will also include a photo of the animal (dead or alive), relocation site GPS coordinates, the time and date of the relocation, and comments on how the animal was detected and its behavior.
6. If any PR or VI boa (dead or alive) is found within the AA and on harm's way, the action will stop at that area and information recorded (see #5). If a PR or VI boa is located within harm's way, all attempts will be made to immediately safely capture the animal (refer to T&C 2). PR boas will be safely captured and relocated at least 1km within suitable habitat (forested) and away from construction areas. PR boa relocation sites will be pre-determined before the project starts and sites shared with the Service for revision and concurrence. Relocation of PR boas will be conducted by trained and designated personnel and will not harm or injure the captured boa. If any VI boa is found, do not relocate. Capture and temporary hold the individual accordingly (refer to T&C 2). Contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers immediately if in Puerto Rico (787-724-5700, 787-230-5550, 787-771-1124) or contact the USVI Department of Planning and Natural Resources (DPNR), Division of Wildlife, immediately if in St. Thomas (340-775-6762, 340-773-1082). The Action may continue at other work sites within the AA where no PR and VI boas have been found. If immediate relocation of PR boa by the project biologist or designated personnel is not an option, project related activities at this area will stop until the boa moves out of harm's way on its own or call the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (787-724-5700, 787-230-5550, 787-771-1124). The potential use of the PRDNER staff for these purposes should be coordinated with them at least 30 days before the project starts. 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 relocated.

7. Measures will be taken to avoid and minimize PR boa and VI boa casualties by heavy machinery or motor vehicles being left in the AA. Any heavy machinery left on site (staging areas) or near potential PR or VI boa habitat will be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the heavy machinery. If a PR boa or VI boa is found within vehicles or heavy machinery, boas will be safely captured accordingly (refer to T&C 2). If not possible, the animal will be left alone until it leaves the vehicle or machine by itself.
8. The PR boa and VI boa may seek shelter within debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in new debris piles as a result of project activities. New debris piles should be placed in areas farthest away from forested areas. Prior to moving, disposing, or shredding, debris piles should be carefully inspected for the presence of PR boas and VI boas. If debris piles will be left on site, we recommend they be placed in an undisturbed area.
9. In the event a PR boa and VI boa is found dead within the project footprint, the Federal Agency and the Recipient must contact the Service to appropriately dispose the animal.
10. Should the forms of take reach the amount of exempted take (Table 6-1) during the Action, the Federal Agency and the Recipient shall terminate the authorized activities and contact the Service within 24 hours in order to reinitiate consultation. The Service and the Federal Agency and the Recipient will re-consult to determine whether authorized activities should continue as proposed and whether modifications or stipulations are warranted.
11. If a PR boa or a VI boa is accidentally injured or killed during capture and relocation activities during the Action, the Federal Agency and the Recipient shall terminate the authorized activities and contact the Service within 24 hours in order to reinitiate consultation. The Service and the Federal Agency and the Recipient will re-consult to determine whether authorized activities should continue as proposed and whether modifications or stipulations are warranted.
12. The contact information for the Service must be followed: Fish and Wildlife Biologist: Jan P. Zegarra at [jan\\_zegarra@fws.gov](mailto:jan_zegarra@fws.gov), 786-933-1451; Endangered Species Program Coordinator: Jose Cruz at [Jose\\_Cruz-Burgos@fws.gov](mailto:Jose_Cruz-Burgos@fws.gov), 305-304-1386. All reporting must be submitted at [caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov).

**T&C 2 (RPM 2). The Service requires the Federal Agency to follow standard procedures while capturing, handling, transporting, temporary holding, relocating and tracking VI boas in order to minimize the risk of injury and mortality to the species.**

- A. The Federal Agency and the Recipient shall identify who will capture PR or VI boas and assess and determine if a boa has been injured as a result of project activities, and if it is in need of veterinary care or rehabilitation. If an injured PR boa or VI boa is in need of veterinary care or rehabilitation, the Federal Agency and the Recipient

shall immediately seek veterinary care for the animal and inform the Service within 24 hours of the event.

- B. The Federal Agency must ensure that any permitted individuals, contractor, recipients or cooperators follow proper procedures and methods for capturing, handling, temporary holding, relocating of the PR and VI boa. The following procedures will be followed:
- i. All PR and VI boas shall be handled safely to avoid injury. The preferred method of capture is by hand, although a snake hook or stick may also be used if snake is uncatchable by hand, or in order to help move the snake into a safer position for capture.
  - ii. All PR and VI boas may be temporarily held during and/or relocation purposes. Boas will be handled as little as possible, and they shall not be kept for more than three days since the day of capture. Temporary holding of boas will be in burlap bags (1 boa per bag) and/or secured containers, which must be placed in cool dry areas that are not in direct sunlight or extreme temperatures. Burlap bags shall be placed inside a container with other boas each inside their own burlap bag and labeled properly. All containers shall be well-ventilated and with a secure lid to avoid boas from escaping.
  - iii. Only qualified, experienced personnel, with a required State and Federal applicable permits may place PIT tag injections. PIT tags may be subcutaneously injected mid-body using sterile syringes. When injecting tags, keep needle parallel to the boa's body and do not force the needle into the muscle tissue or between the ribs. Snakes greater than 400 mm (15.7 in) in length, but that weigh less than 100 grams (3.5 oz), may be PIT tagged with a 5 mm (0.19 in.) PIT tag. An 8 mm (0.31 in) PIT tag may be used for all snakes that weigh over 100 grams (3.5 oz).
  - iv. The Federal Agency and the Recipient and/or contractors shall obtain all necessary permit(s) from the corresponding State agency for capturing, handling, transporting, temporary keeping, relocating and tracking PR and VI boas.

## 6.5. Monitoring and Reporting Requirements

In order to monitor the impacts of incidental take, the Federal Agency and the Recipient must report the progress of the Action and its impact on the species to the Service as stated in the ITS section above (50 CFR §402.14(i)(3)). This section provides the specific instructions for such monitoring and reporting (M&R), including procedures for handling and disposing of any PR and VI boas killed or injured. These M&R requirements are mandatory.

As necessary and appropriate to fulfill this responsibility, the Action Agency must require any permittee, contractor, or grantee to accomplish the M&R through enforceable terms that the Action Agencies include in the permit, contract, or grant document. Such enforceable terms must include a requirement to immediately notify the Service if the amount or extent of incidental take specified in this ITS is exceeded during Actions' implementation.

### **6.5.1. PR and VI Boa**

#### **M&R 1. The Federal Agency and the Recipient will ensure that incidental take levels will be minimal.**

- A. For all PR and VI boa sightings (dead or alive), the Action Agency shall ensure that an effective monitoring and reporting method is established. Reporting shall include the following and should injury or mortality occurred during the Action, the Federal Agency and the Recipient shall contact the Service within 24 hours of the event:
  - i. Date, time and location (latitude/longitude) of the sightings and relocation sites.
  - ii. Size, weight and sex (if possible) of the PR and VI boa.
  - iii. A photograph of the snake as found or after capture.
  - iv. Description of how and what caused the take in the case of injury or death.
  - v. Description of any additional conservation measures that may be implemented to further avoid and minimize take.

#### **M&R 2. Disposition of Dead or Injured boas**

- A. Disposition of dead animals must be immediately coordinated with the Service for appropriate disposal of the animal.
- B. The Service may request some dead specimens of PR boa and all for VI boa. The Federal Agency and the Recipient shall coordinate the delivery of such specimen to the Service.
- C. In case of an injured boa, the Federal Agency and the Recipient must seek veterinary care for the animal and inform the Service within 24 hours of the event.

## **7. CONSERVATION RECOMMENDATIONS**

§7(a)(1) of the ESA directs Federal agencies to use their authorities to further the purposes of the ESA by conducting conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary activities that an action agency may undertake to avoid or minimize the adverse effects of a proposed action, implement recovery plans, or develop information that is useful for the conservation of listed species.

We have not identified actions the Service could take, on a programmatic basis, to address Section 7(a)(I) that are not part of its normally mandated mission. However, previous consultations have incorporated conservation measures for both PR and VI boa. Those conservation measures could be implemented during the actions covered by this PBO. This will be decided on a project-by-project basis by the action agency and the FWS when the FWS is reviewing a project for coverage under this PBO.

## **8. REINITIATION NOTICE**

Formal consultation for the Action considered in this BO is concluded. Reinitiating consultation is required if the Federal Agency and the Recipient retains discretionary involvement or control over the Action (or is authorized by law) when:

- a. the amount or extent of incidental take is exceeded;
- b. new information reveals that the Action may affect listed species or designated critical

- habitat in a manner or to an extent not considered in this PBO;
- c. the Action is modified in a manner that causes effects to listed species or designated critical habitat not considered in this PBO; or
  - d. a new species is listed or critical habitat designated that the Action may affect.

In instances where the amount or extent of incidental take is exceeded, the Action Agency is required to immediately request reinitiating the formal consultation.

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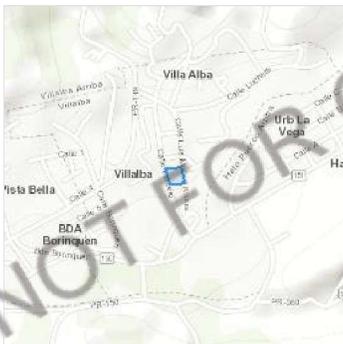
# IPaC resource list

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

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

## Location

Villalba County, Puerto Rico



## Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

✉ [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

### MAILING ADDRESS

Post Office Box 491  
Boqueron, PR 00622-0491

### PHYSICAL ADDRESS

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

## Endangered species

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

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

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

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

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

Listed species<sup>1</sup> 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<sup>2</sup>).

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

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

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

## Reptiles

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

## Critical habitats

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

There are no critical habitats at this location.

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

## Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>

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

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

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

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

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

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

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

What if I have eagles on my list?

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

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

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

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

Additional information can be found using the following links:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### What are the levels of concern for migratory birds?

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

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

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

#### Details about birds that are potentially affected by offshore projects

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

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

#### What if I have eagles on my list?

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

#### Proper Interpretation and Use of Your Migratory Bird Report

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

# Facilities

## National Wildlife Refuge lands

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

There are no refuge lands at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

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

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

This location did not intersect any wetlands mapped by NWI.

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

### Data limitations

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

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

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

### Data exclusions

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

### Data precautions

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

**Appendix F**  
**Historic Preservation**



# GOVERNMENT OF PUERTO RICO

## STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio Cancela | [carubio@prshpo.pr.gov](mailto:carubio@prshpo.pr.gov)

Thursday, February 6, 2025

**Lauren B Poche**

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

**SHPO-CF-01-16-25-02 PR-CRP-000127 (Villalba) - Mejoras a la Plaza Pública José Ramón Figueroa Rivera**

Dear Ms. Poche,

We acknowledge receipt of your submittal letter and scope of work changes, dated January 16, 2025, regarding the above referenced project. We concur with your determination that the updated scope of work will not change the previous finding of no adverse effect, conditioned to the implementation of the Archaeological Monitoring Plan approved by our office in a letter dated July 11, 2024.

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/ EVR



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



GOVERNMENT OF PUERTO RICO  
DEPARTMENT OF HOUSING

April 30, 2024

**Arch. Carlos A. Rubio Cancela**

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

**Re: Authorization to Submit Documents for Consultation**

Dear Arch. Rubio Cancela,

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

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

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

Cordially,

**Aldo A. Rivera Vázquez, PE**

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

January 14, 2025

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

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

**SHPO-CF-03-28-24-01 and SHPO-CF-06-27-24-02: Section 106 NHPA Effect Determination Submittal, Area of Potential Effect Revision and Scope Change for PR-CRP-000127, Mejoras a la Plaza Pública José Ramón Figueroa Rivera, Villalba, Puerto Rico – *No Adverse Effect, Conditioned***

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH) and the subrecipient for this project, the Municipality of Villalba, we are submitting documentation for changes to the scope of work for PR-CRP-000127, the Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project.

The project was originally submitted to the Puerto Rico State Historic Preservation Office (SHPO) on March 28, 2024, with the intention to rehabilitate and renovate the plaza, repairing damage caused by Hurricanes Irma and Maria and making the plaza once again a place for intensive public use. SHPO submitted a response letter on April 19, 2024, with a concurrence of No Adverse Effect conditioned to archaeological monitoring during ground-disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. On June 27, 2024, an Archaeological Monitoring Plan was submitted to SHPO and approved on July 11, 2024.

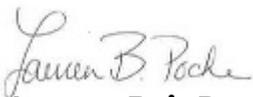
The original submission defined the direct area of potential effects (APE) as four parcels, labeled as the West Section (294-082-011-04-000), Upper East Section (294-082-011-02-001), Center-East Section (294-082-011-03-000), and South Section (294-082-012-01-000). The North Section (294-082-011-01-000) of the Plaza Pública José Ramón Figueroa Rivera, where the church is located, was not included in the direct APE.

Since that time, the subrecipient has expanded the project to include the North Section. The proposed scope of work for this area consists of the installation of new 60 x 60 concrete pavers. Attached please find a map showing the revised APE and design drawings showing the proposed work in the North Section.

Based on the revised design, the Program requests a concurrence with a determination that the proposed scope of work will not change the previous finding of **no adverse effect**, conditioned to the implementation of the Archaeological Monitoring Plan that was approved by your office in a letter dated July 11, 2024.

Please contact me with any questions or concerns by email at [lauren.poche@horne.com](mailto: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

# Project Location - Revised Area of Potential Effects

## Legend

 Direct APE

149



Google Earth

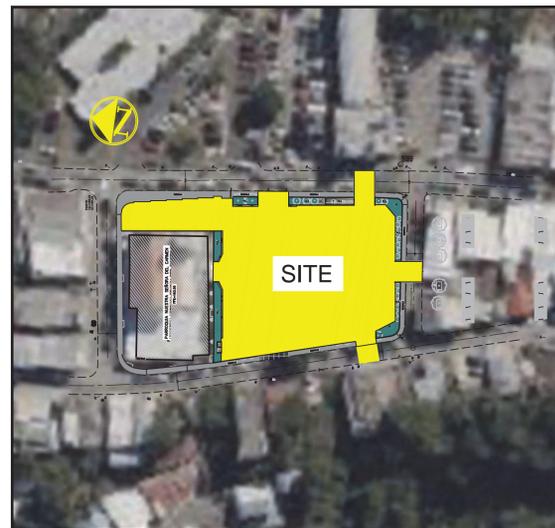
Image © 2025 Airbus



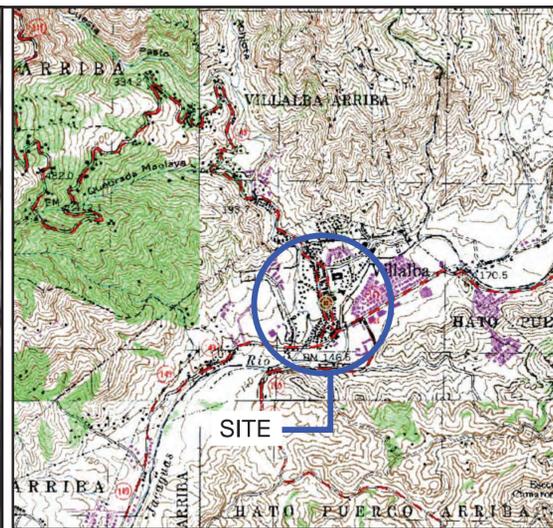
200 ft

# CIVIL PLANS SET FOR JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION

CALLE BARCELO VILLALBA , PUERTO RICO



**SITE PLAN:**  
SCALE: 1:1,000



**QUADRANGLE MAP:**  
SCALE: 1:20,000  
Coord. Nad83 X = 193742.5195 Y =232664.6943

### GENERAL NOTES

1. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE CONSTRUCTION DRAWINGS, SPECIFICATIONS OR ANY REFERRED STANDARD, THE MORE RESTRICTIVE PROVISION SHALL APPLY.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEFORE ORDERING ANY MATERIAL. DIFFERENCES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF ENGINEER AND NO ACTION SHALL BE TAKEN UNTIL APPROVED BY ENGINEER.
3. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS, IN WHOLE OR IN PART, OF DRAWINGS PREPARED BY ENGINEER. SHOP DRAWINGS SHALL BE PREPARED ENTIRELY BY MANUFACTURER, FABRICATOR OR INSTALLER BASED ON INFORMATION WITHIN THESE DRAWINGS.
4. ALL DIMENSIONS PERTAINING TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING ANY WORK OR FABRICATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING FEATURES WHICH ARE NOT PART OF THE CONSTRUCTION. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL RESTORE OR REPLACE THE DAMAGED FEATURES TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE AT NO COST.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

### CIVIL PLANS INDEX OF DRAWINGS

- C-100 TITLE SHEET & INDEX
- C-200 GEOMETRIC PLAN
- C-201 GEOMETRIC TABLES
- C-300 GRADING PLAN
- C-400 UTILITIES PLAN
- C-401 UTILITIES DETAILS
- C-500 CIVIL DETAILS



NOTE: All designs, drawings and specifications prepared by VISURA CSP and its consultants are rightly owned by VISURA CSP and can not be copy or distributed by other parties other than the designers. VISURA CSP have all copy rights of the project. All unauthorized copies are illegal and delinquents will be prosecuted under a court of law.



**LOGISTIC ENGINEERING CONSULTANTS, CSP**  
BOX 9020466  
San Juan, PR 00902-0466  
logisticengineeringcsp@gmail.com

PROFESSIONAL / CONSULTANT

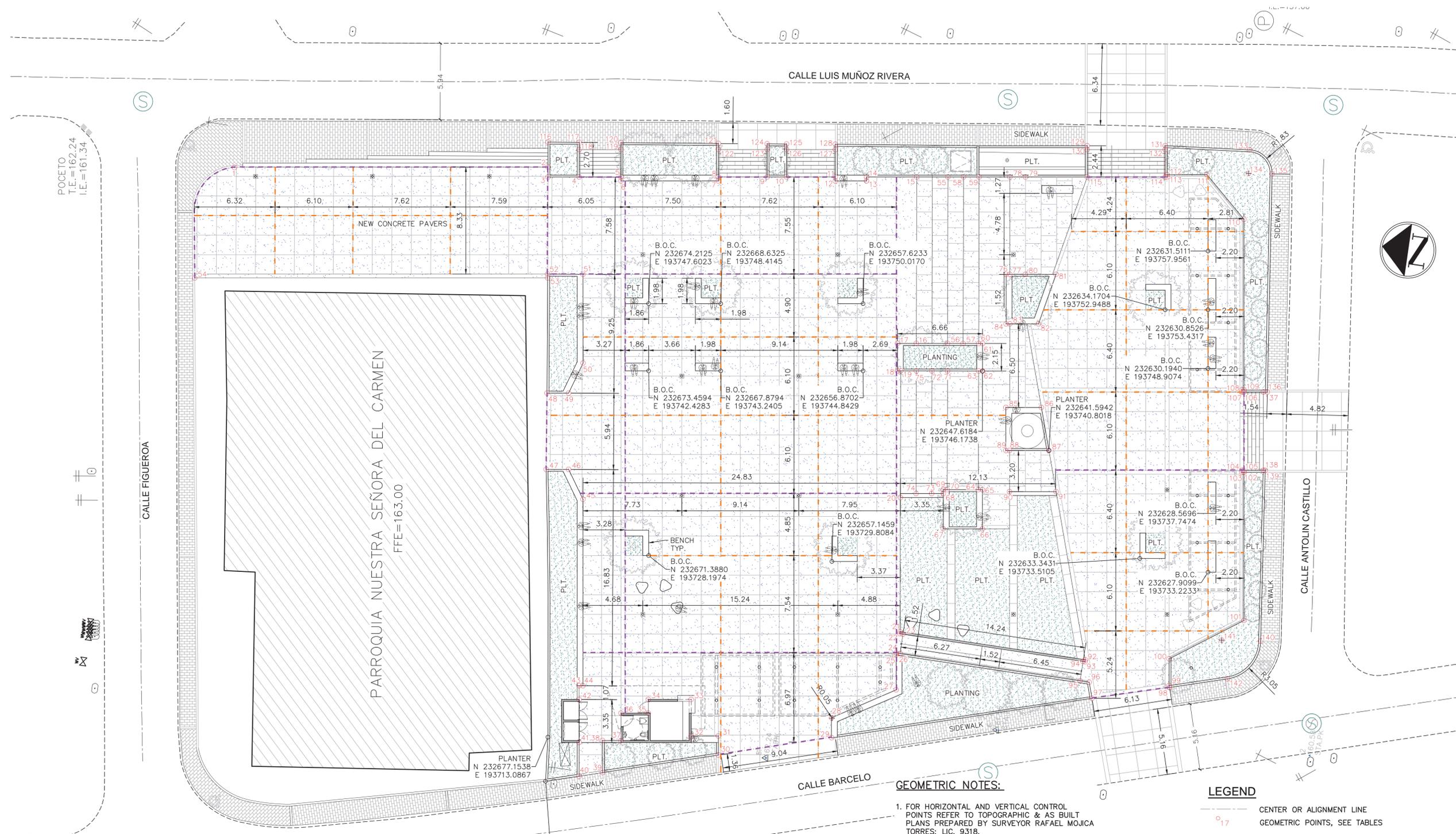
**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
C.JQ DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

TITLE SHEET & INDEX SHEET TITLE

C-100 SHEET NO.



POCETO  
 T.E.=162.24  
 I.E.=161.34

CALLE FIGUEROA

PARROQUIA NUESTRA SEÑORA DEL CARMEN  
 FFE=163.00

CALLE LUIS MUÑOZ RIVERA

CALLE BARCELO

CALLE ANTOLIN CASTILLO

SITE IMPROVEMENTS - QUANTITY TABLE		
DESCRIPTION	UNIT	QUANTITY
CONCRETE FLOOR SLAB	SQ.MT.	2,150

NOTE: REFER TO SHEET C-500 FOR CIVIL DETAILS

### GEOMETRIC PLAN

SCALE: 1:150

#### GEOMETRIC NOTES:

- FOR HORIZONTAL AND VERTICAL CONTROL POINTS REFER TO TOPOGRAPHIC & AS BUILT PLANS PREPARED BY SURVEYOR RAFAEL MOJICA TORRES; LIC. 9318.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGIN ANY WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL FIELD CONDITIONS IMMEDIATELY TO THE OWNER.
- ALL DISTANCES IN CIVIL PLAN ARE EXPRESS IN METERS UNLESS OTHERWISE SPECIFIED.
- SEE GEOMETRIC POINTS COORDINATES TABLES ON SHEETS C-201.
- CONTRACTOR SHALL REVIEW PLANS WITH COORDINATES CONTROLS AND SHALL REVIEW DIMENSIONS AND SPACE.
- CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
- FOR CONCRETE FLOOR SLAB & JOINT DETAILS REFER TO C-500.

#### LEGEND

- CENTER OR ALIGNMENT LINE
- GEOMETRIC POINTS, SEE TABLES
- HANDICAP
- LENGTH
- RADIUS
- PLANTING
- PAVEMENT
- SPACES
- SIDEWALK
- WALL OUTER CORNER
- BENCH OUTER CORNER
- EXPANSION JOINT
- CONSTRUCTION JOINT
- PROP. CONC. FLOOR SLAB REFER TO C-500 FOR DETAILS

# JOSE RAMON FIGUEROA RIVERA

## PLAZA RENOVATION

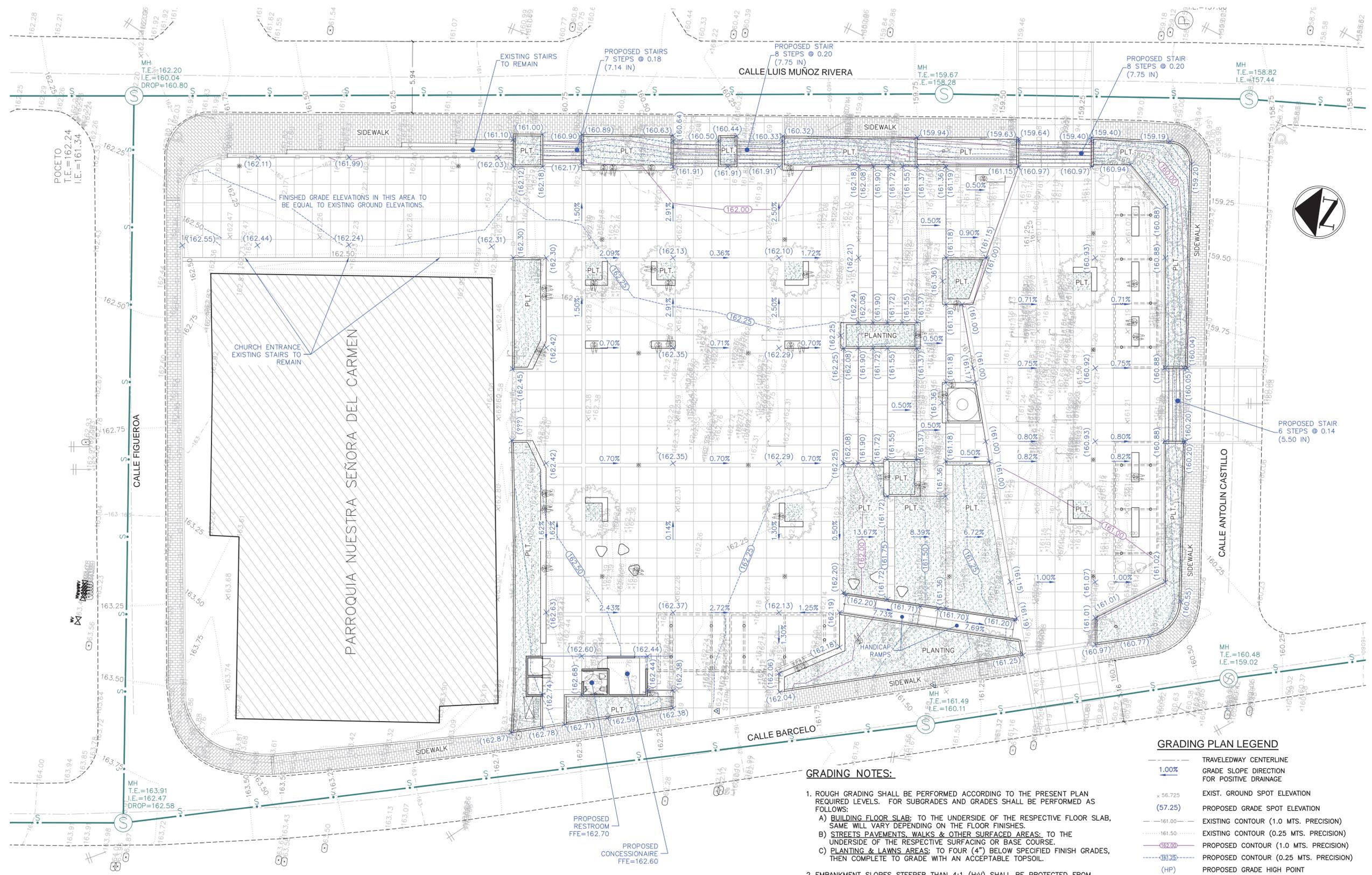
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 PRINTING DATE  
 C/JQ  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

GEOMETRIC PLAN  
 SHEET TITLE

C-200  
 SHEET NO.



### GRADING PLAN

SCALE: 1:150

#### GRADING NOTES:

- ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. FOR SUBGRADES AND GRADES SHALL BE PERFORMED AS FOLLOWS:
  - BUILDING FLOOR SLAB:** TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.
  - STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS:** TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.
  - PLANTING & LAWNS AREAS:** TO FOUR (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH AN ACCEPTABLE TOPSOIL.
- EMBANKMENT SLOPES STEEPER THAN 4:1 (H:V) SHALL BE PROTECTED FROM RUNOFF AND EROSION BY AN APPROPRIATED TYPE OF VEGETATION COVER.
- CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
- REFER TO C-301 FOR GRADING SECTIONS.
- EARTHWORK VALUES** (VOLUME WERE OBTAINED COMPARING PROPOSED FINISHED GRADE ELEVATION VS. EXISTING GROUND.)
  - CUT = 401 CU.MTS.
  - FILL = 90 CU.MTS.
  - NET = 311 CU.MTS. (CUT TO WASTE)

#### GRADING PLAN LEGEND

	TRAVELEDWAY CENTERLINE GRADE SLOPE DIRECTION FOR POSITIVE DRAINAGE
	EXIST. GROUND SPOT ELEVATION
	PROPOSED GRADE SPOT ELEVATION
	EXISTING CONTOUR (1.0 MTS. PRECISION)
	EXISTING CONTOUR (0.25 MTS. PRECISION)
	PROPOSED CONTOUR (1.0 MTS. PRECISION)
	PROPOSED CONTOUR (0.25 MTS. PRECISION)
	PROPOSED GRADE HIGH POINT
	PROPOSED GRADE LOW POINT
	FINISHED FLOOR ELEVATION
	TOE OF SLOPE
	FILL EARTH SLOPE, SLOPE AS INDICATED ON PLANS
	CUT EARTH SLOPE, SLOPE AS INDICATED ON PLANS
	PROPOSED INLET STRUCTURE
	PLANTING
	SIDEWALK

# JOSE RAMON FIGUEROA RIVERA

## PLAZA RENOVATION

CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA	OWNER
48-2022	PROJECT NUMBER
JANUARY 24, 2024	PRINTING DATE
C/JQ	DRAWN / APPROVED
	REVISION
	CONSTRUCTION PHASE
	PROJECT PHASE

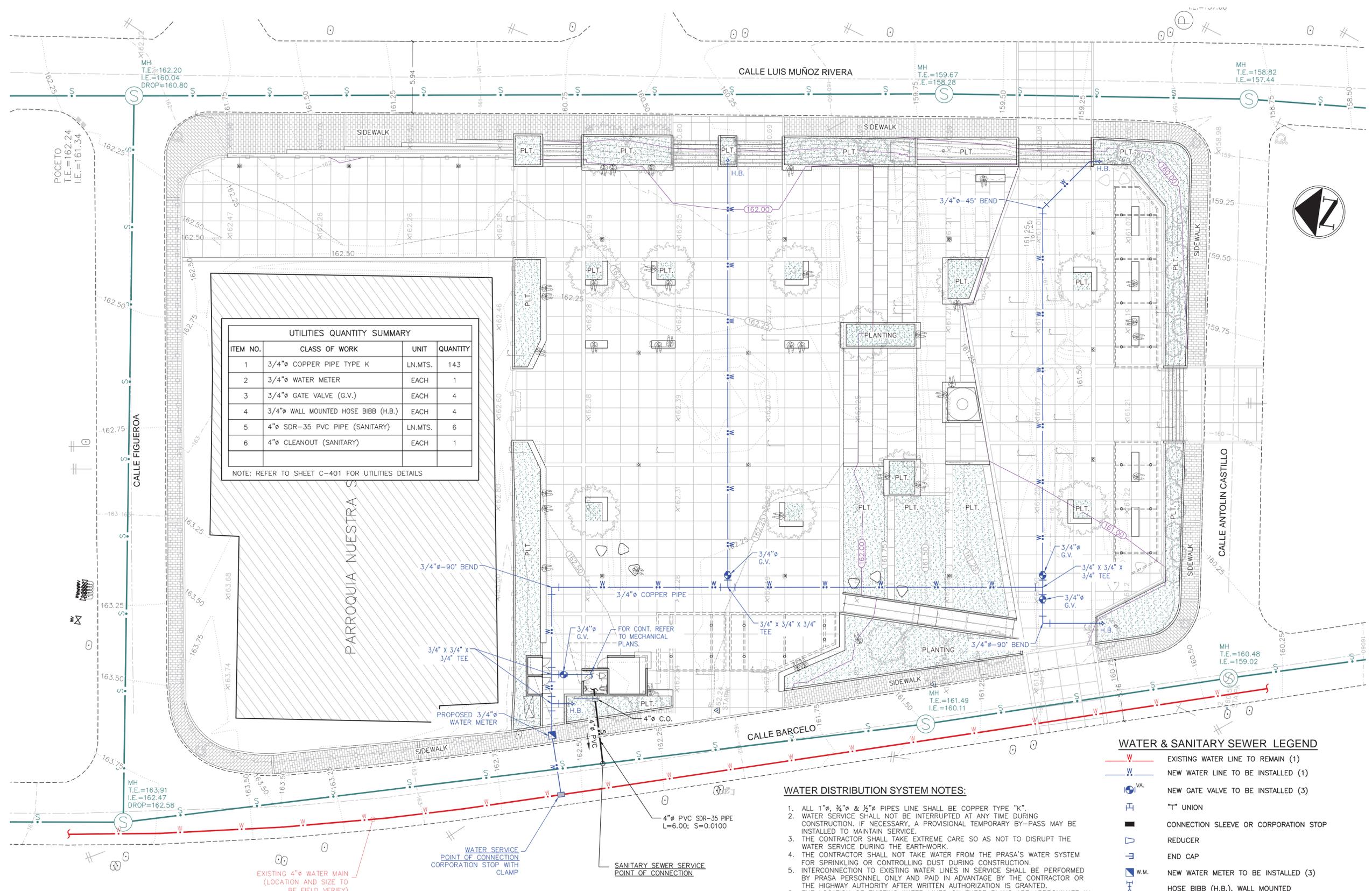
**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
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 C.J.Q.  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

UTILITIES PLAN  
 SHEET TITLE

C-400  
 SHEET NO.



UTILITIES QUANTITY SUMMARY			
ITEM NO.	CLASS OF WORK	UNIT	QUANTITY
1	3/4" COPPER PIPE TYPE K	LN.MTS.	143
2	3/4" WATER METER	EACH	1
3	3/4" GATE VALVE (G.V.)	EACH	4
4	3/4" WALL MOUNTED HOSE BIBB (H.B.)	EACH	4
5	4" SDR-35 PVC PIPE (SANITARY)	LN.MTS.	6
6	4" CLEANOUT (SANITARY)	EACH	1

NOTE: REFER TO SHEET C-401 FOR UTILITIES DETAILS

**WATER & SANITARY SEWER LEGEND**

- EXISTING WATER LINE TO REMAIN (1)
- NEW WATER LINE TO BE INSTALLED (1)
- NEW GATE VALVE TO BE INSTALLED (3)
- "T" UNION
- CONNECTION SLEEVE OR CORPORATION STOP
- REDUCER
- END CAP
- NEW WATER METER TO BE INSTALLED (3)
- HOSE BIBB (H.B.), WALL MOUNTED
- GATE VALVE
- EXISTING SANITARY LINE TO REMAIN
- NEW PVC SDR-35 SANITARY SEWER LINE
- PROPOSED 4" SANITARY SEWER CLEAN OUT (C.O.)

**WATER DISTRIBUTION SYSTEM NOTES:**

- ALL 1"Ø, 3/4"Ø & 1/2"Ø PIPES LINE SHALL BE COPPER TYPE "K".
- WATER SERVICE SHALL NOT BE INTERRUPTED AT ANY TIME DURING CONSTRUCTION. IF NECESSARY, A PROVISIONAL TEMPORARY BY-PASS MAY BE INSTALLED TO MAINTAIN SERVICE.
- THE CONTRACTOR SHALL TAKE EXTREME CARE SO AS NOT TO DISRUPT THE WATER SERVICE DURING THE EARTHWORK.
- THE CONTRACTOR SHALL NOT TAKE WATER FROM THE PRASA'S WATER SYSTEM FOR SPRINKLING OR CONTROLLING DUST DURING CONSTRUCTION.
- INTERCONNECTION TO EXISTING WATER LINES IN SERVICE SHALL BE PERFORMED BY PRASA PERSONNEL ONLY AND PAID IN ADVANTAGE BY THE CONTRACTOR OR THE HIGHWAY AUTHORITY AFTER WRITTEN AUTHORIZATION IS GRANTED.
- THE LOCATION OF EXISTING WATER LINES ON THESE PLANS ARE APPROXIMATE IN ACCORDANCE TO PRASA INFORMATION. THE CONTRACTOR SHALL CONTACT THE NEAREST PRASA OFFICE TO VERIFY THE EXACT LOCATION BEFORE RELOCATION OR EARTHWORK BEGINS.
- A DETECTABLE TAPE (SIMILAR OR EQUAL TO TERRA-TAPE) 12" BELOW GROUND MUST BE INSTALLED BY CONTRACTOR WITH ALL PVC PIPES. NOT DIRECT PAYMENT SHALL BE DONE FOR THIS ITEM BUT SHALL BE CONSIDERED AS A SUBSIDIARY OF THE CONTRACTOR COVERED UNDER THE PAY ITEM FOR PVC PIPE.
- ALL SERVICE CONNECTIONS SHALL BE IN COPPER FLEXIBLE TYPE K.
- THE CONTRACTOR SHALL OBTAIN P.R.A.S.A.'S APPROVAL OF THE PROPOSED MATERIALS PRIOR TO THE PURCHASE.
- SEE WATER DISTRIBUTION SYSTEM DETAILS ON C-602.

**SANITARY SEWER NOTES:**

- METRIC SYSTEM HAS BEEN USED THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED.
- SEE SANITARY SEWER SEPTIC & INFILTRATION SYSTEM DETAILS ON SHEET C-601.
- SANITARY SEWER PIPES SHALL BE 4" DIAMETER POLYVINYL CHLORIDE PIPE, S.D.R.-35 WITH RUBBER GASKET JOINT.

**UTILITIES PLAN**

SCALE: 1:150

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA

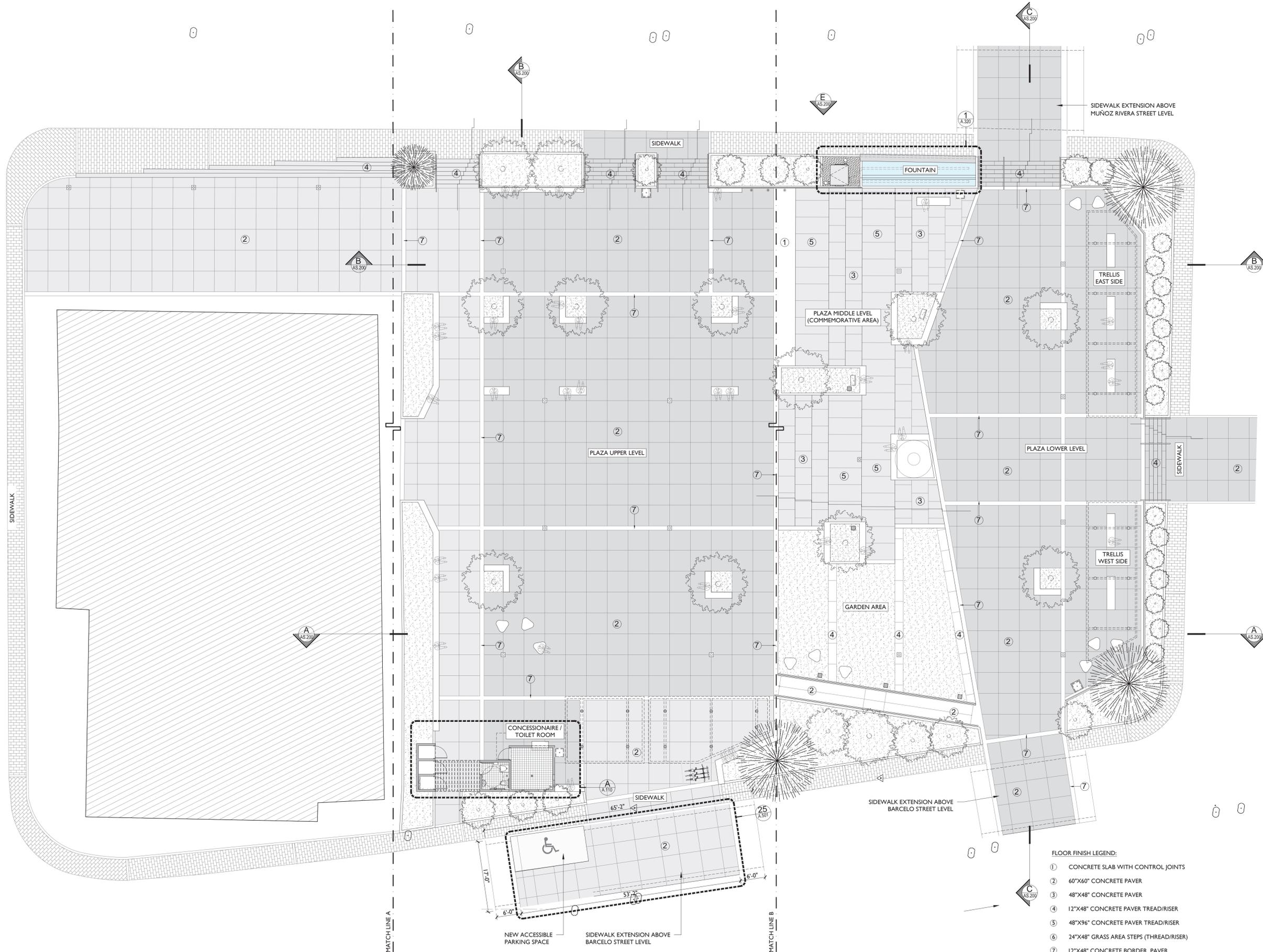
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
PRINTING DATE  
CJQ  
DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

PROPOSED PLAZA FLOOR PLAN  
FLOOR PLAN

SHEET TITLE

AS-100  
SHEET NO.



- FLOOR FINISH LEGEND:**
- ① CONCRETE SLAB WITH CONTROL JOINTS
  - ② 60"x60" CONCRETE PAVER
  - ③ 48"x48" CONCRETE PAVER
  - ④ 12"x48" CONCRETE PAVER TREAD/RISER
  - ⑤ 48"x96" CONCRETE PAVER TREAD/RISER
  - ⑥ 24"x48" GRASS AREA STEPS (THREAD/RISER)
  - ⑦ 12"x48" CONCRETE BORDER PAVER
  - ⑧ 12"x24" CONCRETE PAVER SIDEWALKS

NOTE: ALL FINISHES MUST BE NON-SLIP CONCRETE FINISH, AND HIGH TRAFFIC PURPOSE.

**PROPOSED PLAZA FLOOR PLAN**  
SCALE 3/32" = 1'-0"



NORTH



# GOVERNMENT OF PUERTO RICO

## STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio Cancela | [carubio@prshpo.pr.gov](mailto:carubio@prshpo.pr.gov)

Thursday, July 11, 2024

**Lauren B Poche**

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

SHPO-CF-06-27-24-02 PR-CRP-000127 (Villalba) - Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Dear Ms. Poche,

We acknowledge receipt of the archaeological monitoring work plan submitted on June 27, 2024, for the case mentioned above. The plan is deemed acceptable, and we concur with its implementation. Please notify the PRSHPO the archaeological monitoring start date 48 hours prior to the initiation of work.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/OJR



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



GOVERNMENT OF PUERTO RICO  
DEPARTMENT OF HOUSING

April 30, 2024

**Arch. Carlos A. Rubio Cancela**

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

**Re: Authorization to Submit Documents for Consultation**

Dear Arch. Rubio Cancela,

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

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

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

Cordially,

**Aldo A. Rivera Vázquez, PE**

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

6/27/2024

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 03-28-24-01, PR-CRP-000127: Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project, Villalba, 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 April 19, 2024, in response to the submission of documentation for PR-CRP-000127. The Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking, pursuant to the following conditions as proposed by PRDOH: Archaeological monitoring during ground-disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation.

As such, we are submitting the requested Work Plan for an Archaeological Monitoring Inspection for the Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project (PR-CRP-000127/SHPO 03-28-24-01) prepared by Archaeologist Sharon Meléndez Ortiz for your review and concurrence that the implementation of this plan is appropriate for this undertaking.

Please contact me with any questions or concerns by email at [lauren.poche@horne.com](mailto:lauren.poche@horne.com) or phone at 225-405-7676.

Kindest regards,

A handwritten signature in cursive script that reads 'Lauren B. Poche'.

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

PRDOH CDBG-DR CRP Program  
**Mejoras a la Plaza Pública José Ramón  
Figueroa Rivera, Villalba, Puerto Rico**  
PR-CRP-000127/ SHPO-CF-03-28-24-01

**Archaeological Monitoring Plan**



Prepared by:

Sharon Meléndez Ortiz  
Archaeologist – **Horne PR**

June 17, 2024

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## I. PREAMBLE

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The Municipality of Villalba 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 Villalba for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The Municipality of Villalba proposes the renovation of the José Ramón Figueroa Rivera Public Plaza (hereinafter the Plaza). The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated April 19, 2024, concurred with a finding of No Adverse Effect for this undertaking conditioned to the implementation of an archaeological monitoring during ground disturbing activities.

The project's area of potential effects (APE) is defined by the boundaries of the Plaza, including the adjacent sidewalk, south of the Nuestra Señora del Carmen Church (Figure 1). The direct APE encompasses four different parcels, labeled as the West Section (#294-082-011-04), Upper East Section (#294-082-011-02), Center-East Section (#294-082-011-03), and South Section (#294-082-012-01), and is limited to the north by the churchyard gate of the Nuestra Señora del Carmen Church, to the south by Antolin Castillo Street, to the west by Barceló Street, and to the east by Luis Muñoz Rivera Street (PR-149R Road). The North Section (#294-082-011-01) of the Plaza, where the church is located, is not included in the direct APE. The direct APE comprises 28,730 square feet (169 x 170 feet) and the indirect APE or viewshed of the proposed project comprises 42,487 square feet (221 x 215 feet).

**Figure 1:** Project Location – Area of Potential Effect on the Satellite Image  
(from Lizardi Pollock and Vega 2023)



The objectives of this archaeological monitoring and protection plan are: (1) to establish measures to prevent indirect adverse effects to known historical resources; (2) to establish the protocol to be followed in archaeological monitoring; (3) to establish the protocol to be followed if previously unknown resources are identified; (4) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (5) to locate, evaluate and document archaeological resources during project development; (6) to recover as much archaeological information as possible during excavation and construction; (7) to conserve and enhance the value of the archaeological resources located and documented; and (8) in the event that the archaeological resource cannot be conserved in situ, to conserve it through documentation (preservation by record).

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 (ICP). The plan was prepared by archaeologist Sharon Meléndez Ortiz, who meets the Professional Qualifications Standards set forth in 36 CFR Part 61 and is listed as an archaeologist by the Council for the Protection of Earth Archaeological Heritage (Council) to conduct Phase I, Phase II, and Phase III studies.

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

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## II. PROJECT DESCRIPTION<sup>1</sup>

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The proposed project intends to improve accessways and sidewalks by removing accessibility barriers and maximizing the possibilities of uses for the site. It will also replace the town square's current flooring and planters' position to gain uniformity in the whole esplanade, and the 1980's octagonal kiosk on the upper level and other obstacles will be removed to reorient the plaza's organizational axis towards the lateral entrances of the catholic church (Figures 2 and 3).

The project includes the following activities:

- Development of a 250 square feet concrete kiosk for a coffee shop with a bathroom, kitchen and storage on the northwest corner of the Plaza.
- The installation of trellis (metal pergolas), each one on the different plaza levels (two in the south opposite corners of the plaza and one in at the south side of the new kiosk in the upper segment of the plaza), and 80 square feet each.
- Demolition of the existent fountains and construction of a smaller new one on the west side of the plaza, 28' x 8' feet.
- Reorganization of planters and creation of smaller garden areas in the middle level. Existent trees will be preserved.
- Improvements to the stormwater drainage system.
- The installation of internet infrastructure to provide free public access.
- The development of recharge stations for portable equipment.
- Removal of old and installation of new concrete benches.
- Accessibility will be improved by providing ramps and eliminating the separations between the plaza and the sidewalks that surround the space, all complying with ADA normative.

The present plaza is divided into three different levels separated by different pitched steps. The rehabilitation of the plaza will mitigate the sensation of that separation between them consolidating the place as a single space, changing the existent concrete stairs and building new stairs lower pitched and with lesser steps. Because of the different heights, the demolition plan and excavation for installing new pavement, planters, garden areas and 18 new lampposts will vary between six inches and 36 inches deep.

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<sup>1</sup> The content of this section was reproduced from Lizardi Pollock and Vega 2023: 1-2.

Figure 2: Existing Conditions and Demolition Plan

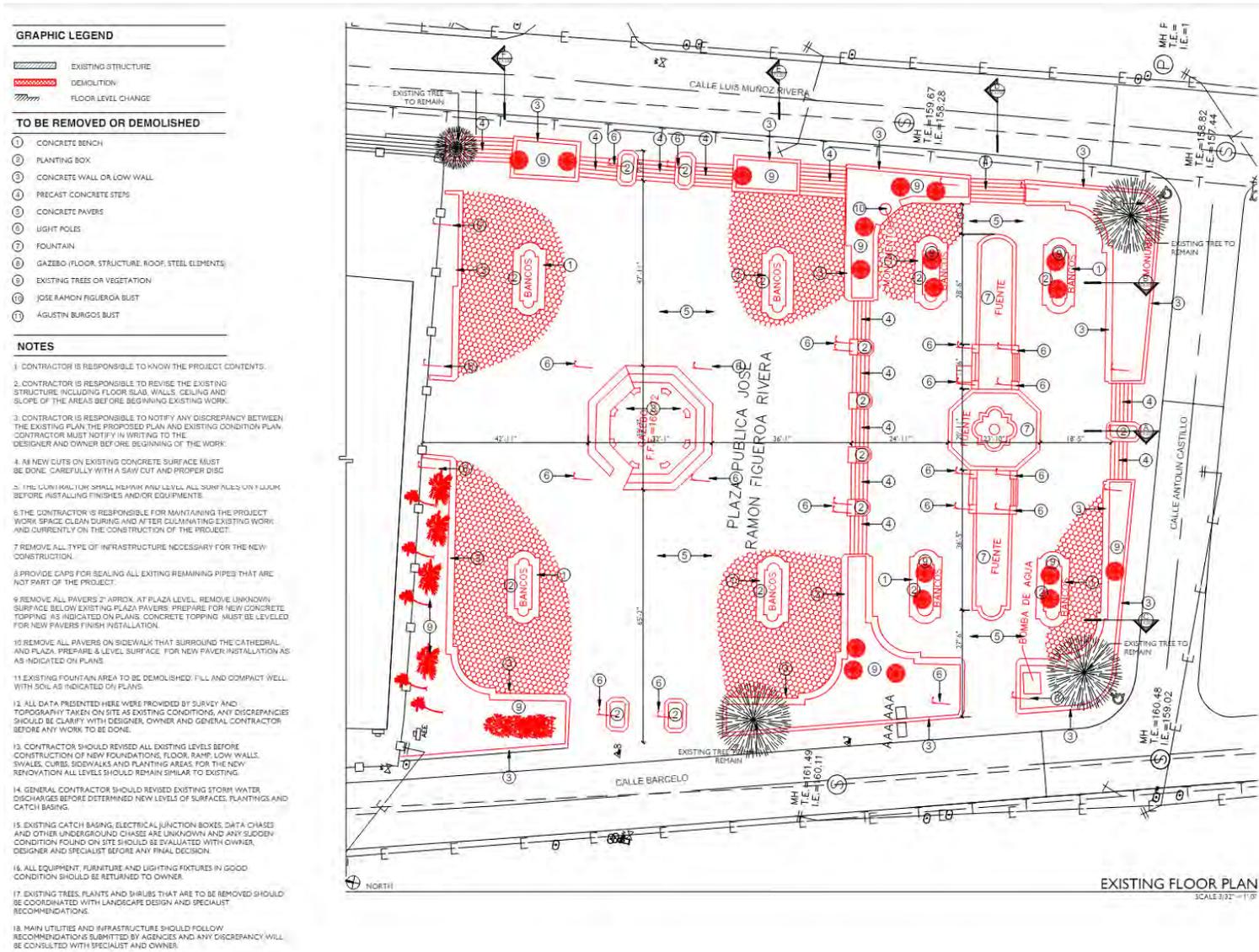
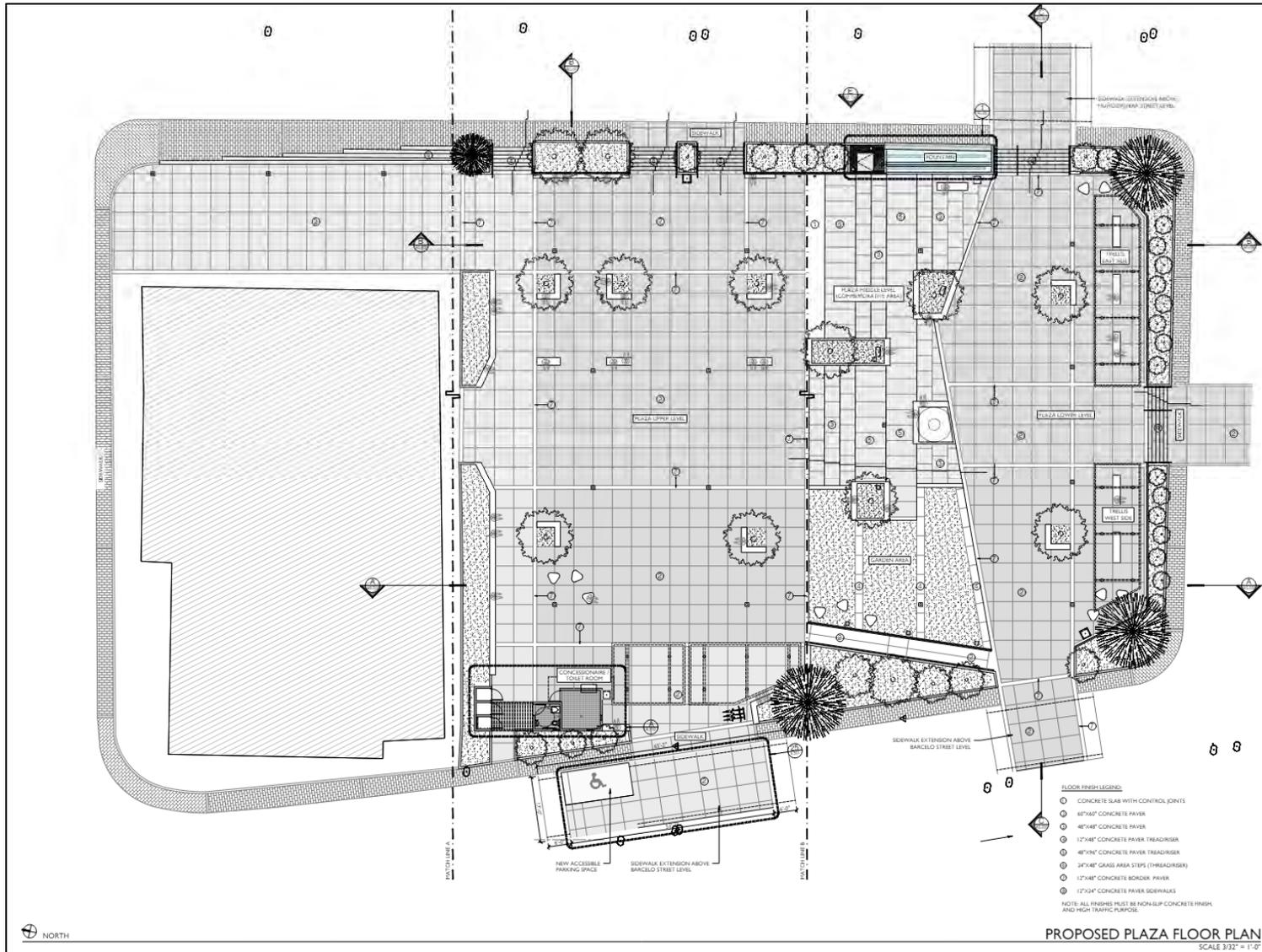


Figure 3: Proposed Plaza Floor Plan



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### III. HISTORIC BACKGROUND<sup>2</sup>

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After Juana Díaz separated from Ponce in 1817, Villalba became a barrio of Juana Díaz, with sparse settlements along the Jacaguas River during the early 19th century. By 1865, there was already a hamlet made up of six houses. In 1882, a business was established by Juan De Dios Negrón. That same year, José Ramón Figueroa Rivera built a large house known as La Villa Carmen in what is now the San Cristóbal Health Center, northeast of the church and Plaza. José Ramón Figueroa Rivera, a Comerío-born entrepreneur with family ties to the town of Villalba in the Province of Lugo, Galicia, Spain, settled near the Jacaguas River circa 1875. Although there were earlier settlers, Figueroa founded the new town of Villalba along with Walter McKown Jones, a prominent American entrepreneur from Boston who had relocated to Ponce in 1906. Villalba became an autonomous municipality in 1917, as decreed by Law #42 of April 12, 1917, which came into effect on July 1st.

The historic Plaza of Villalba, initially named Plaza Luis Muñoz Rivera, was constructed ca. 1923 on a plot of land donated by founder José Ramón Figueroa Rivera. The original Nuestra Señora del Carmen Church, a quaint wooden church, had already been built on the north end of the land in 1895, and became integrated into the plaza's design. In 1928, the actual concrete church was erected.

A plan drawn up by the Municipal Public Works Division of the Department of the Interior in 1924 identified the footprint of the Plaza and its surroundings (Figure 4). This plan shows an urbanized block twice the size of the Plaza and another short street between the Church and the Plaza. The map suggests as well, that in 1924 the catholic parish was still the modest wooden temple built in 1895, and its footprint occupied an equally rectangular block, had a staircase on its façade, and its setback from Muñoz Rivera Street left a more expansive atrium than the one the actual building has. It is also clear from the map that the town hall across the street and in front of the Plaza has not yet been built (it was designed and built in 1948). Until the 1980's, the block between the Plaza and the Church was occupied by six houses, three facing Muñoz Rivera Street and three facing Barceló Street.

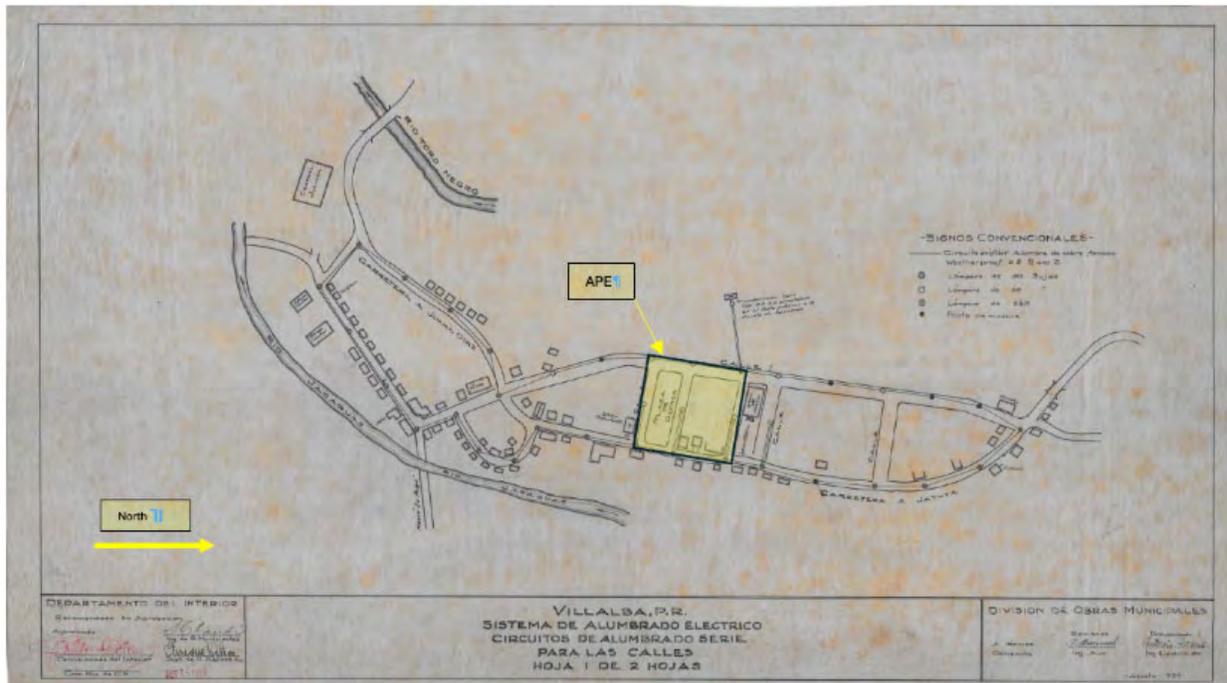
Villalba's Plaza underwent minor changes between 1924 and 1980s. The parish was first rebuilt between 1928 and 1929, following a design by the architect Francisco Porrata Doria and at the initiative of Ponce's bishop, Monsignor Luis J. Willinger, who promoted several new churches in some towns after the devastation caused by Hurricane San Felipe. The aerial imagery shows that the Plaza had the same footprint until 1977. Then, in 1989, Hurricane Hugo happened. Villalba municipality took advantage of the ruinous state of the houses in the block between the Plaza and the church for remodeling and expanding the Plaza towards the north, gaining the character it has today. The renovation occurred probably shortly after the Catholic parish's renovation in 1989 that added, between others, a bell tower.

Since the 1989 renovation, there haven't been significant structural changes to the Plaza. The space was divided essentially into a lower and upper level, each one accessed by sets of stairs that ascend toward the church and laterally descend to the surrounding streetscape: Antolin Castillo Street to the south, Barceló Street to the west, and Luis Muñoz Rivera Street (PR-149R Road) to the east.

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<sup>2</sup> The content of this section is quoted from Lizardi Pollock and Vega 2023: 3-24.

**Figure 4: Villalba PR. Plan del Sistema de Alumbrado Eléctrico.** División de Obras Municipales. 1924 (reproduced from Lizardi Pollock and Vega 2023: 17).



### Historic Properties

There are six (6) known historic properties within the APE (refer to Figure 8). Two (2) of the historic properties are located within the project’s direct APE: the Plaza Pública José Ramón Figueroa itself, built circa 1923, and the Parroquia Nuestra Señora del Carmen de Villalba, built in 1928 (Figure 5).

**Figure 5: Villalba’s Catholic Paric Façade (left) and Upper East Section of the Plaza (right)** (Lizardi Pollock and Vega 2023: 21 and 34)



There are three individually significant historic properties present within the indirect/visual APE. The Iglesia Evangélica Unida de Puerto Rico was built in 1905, immediately south of the Plaza, opposite the Catholic parish at the north end of the plaza (Figure 6-left) There is also the Villalba City Hall, or Casa Alcaldía de Villalba, a concrete structure built 1948, across Luis Muñoz Rivera Street (Figure 6-right), and

an old fire station also east of the plaza and immediately north of the city hall (Figure 7). The late historic fire station has the standard design of the 1940s firehouse station, built circa 1948 and now incorporated to the Villalba City Hall as a wing or annex.

**Figure 6: Iglesia Evangélica Unidad de P.R. (left) and Villalba’s City Hall (right)**

(Lizardi Pollock and Vega 2023: 40 and 17)

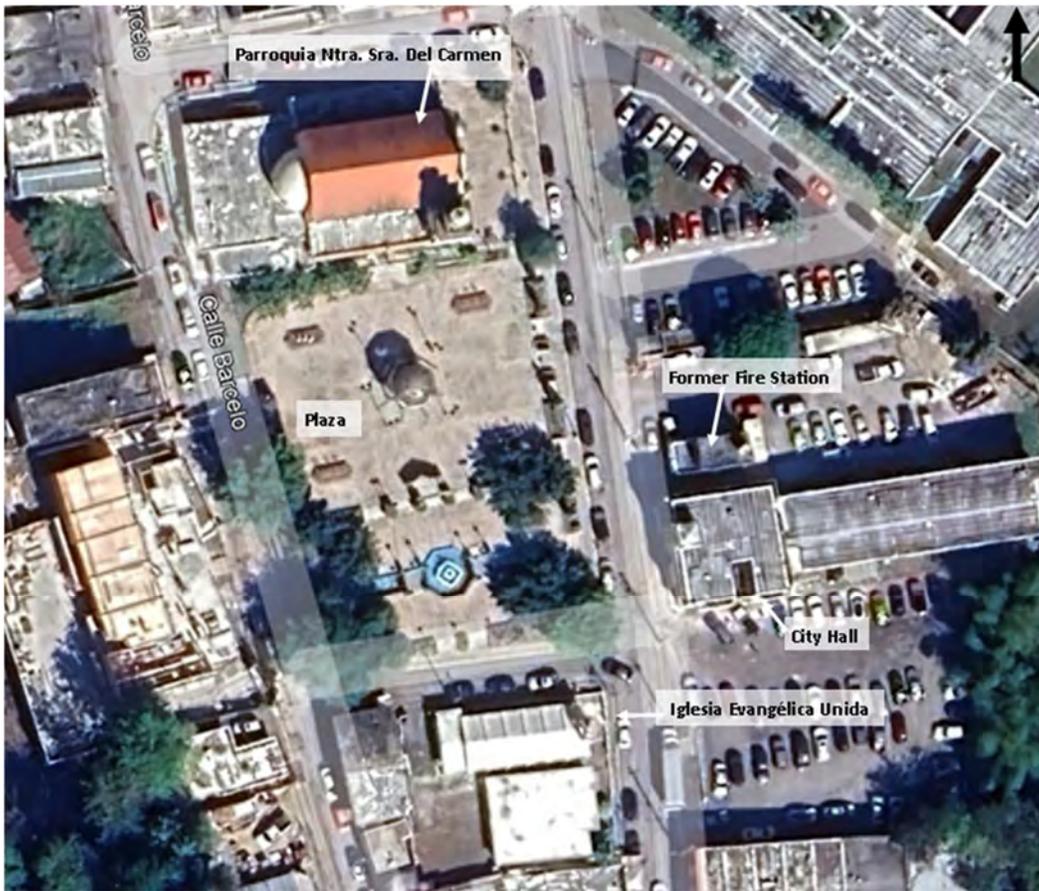


**Figure 7: Former Villalba’s Fire Station**

(Lizardi Pollock and Vega 2023: 23)



**Figure 8: Location of Historic Properties Within the Project's APE**



### **Archaeological Potential**

Due to the late historical development of the Villalba Traditional Urban Center in the early 20th century, it is not expected to find archaeological remains of the 16th to 18th centuries as may be found in other towns, or any known aboriginal pre-Columbian settlement. The original wooden church, built circa 1895, was demolished to build the existing concrete parish in 1928; all known urban structures in the Villalba Traditional Urban center were built or extensively renovated after 1917 and none of them will be affected by the project undertaking; and there are no known precolonial sites within or near the project's APE.

During the renovation of the Plaza in 1990, a block with six buildings was demolished to extend the public square to the north. Therefore, there is the potential to find deposits associated with these late 19<sup>th</sup> to early 20<sup>th</sup> century buildings, of which only cartographic information is available. It is also possible to find remnants of previous surfaces and structures, urban furniture, drainage structures and old utilities, as well as cultural strata associated with demolitions and reconstructions due to catastrophes such as hurricanes.

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## IV. ARCHAEOLOGICAL MONITORING PROCEDURE

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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, excavations, and earth movements. Those reconstruction activities that do not entail excavations or earth movements do not require an archaeological monitor. However, if there are activities with heavy equipment taking place in the vicinity of historic buildings, there should be a monitor present to prevent accidents and indirect impacts.

### 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).
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 shall document the NHRP-eligible properties located within the direct and visual APE through detailed descriptions and photos. This data must be included in the final report and should be compared with the conditions of the properties after the project is completed.

### B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance, and activities with heavy machinery in the vicinity of historic buildings; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (see **Error! Reference source not found.**). These Forms will be attached to the final report as an appendix.
4. After the demolition and removal of surfaces, the Monitor shall document any exposed subsurface feature and shall complete a scale plan drawing. The amount, size, and placement of excavation units needed to document the features, if any, shall depend on the size and complexity of the feature being documented. If necessary to understand the context of the identified resource, the Monitor should conduct archival research of primary sources (like previous project files, newspapers, journals), cartographic sources, and historical images.
5. The Monitor shall document all other archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-7 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 not to impact on the project schedule as much as possible.

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 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.
  - b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
  - c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
  - d. The GM shall notify the SHPO of the NRHP-eligibility determination.
    - i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
    - ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.
    - iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation ([http://www.nps.gov/history/locallaw/arch\\_stnds\\_7.htm](http://www.nps.gov/history/locallaw/arch_stnds_7.htm)) and 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](https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance). The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to II.B.11 of this work plan).

8. 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 prior to implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
9. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

#### **C. After Construction Ends**

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. A technical report shall be prepared detailing monitored construction activities, documentary research (if any), documentation archaeological features and other findings, and analysis and interpretation of the results. The report must include visual information, such as drawings and photos, and a sketch plan of all the documented findings. 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 no later than one (1) week after receiving it.

#### **D. Human Remains**

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

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

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## V. PROFESSIONAL QUALIFICATIONS

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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](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.

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## VI. CITED REFERENCES

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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](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.

Lizardi Pollock, Jorge L and Vega, Jesús E.

202e Puerto Rico 2017 Disaster Recovery, CDBG-DR Program. City Revitalization Program (City-Rev).  
Section 106 NHPA Effect Determination. Revised January 26, 2024.

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](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](http://www.cr.nps.gov/local-law/arch_stnds_7.htm)

1980 *Treatment of Archeological Properties: A Handbook*. [http://libraryarchives.metro.net/DPGTL/archaeology/1980\\_treatment\\_archaeological\\_properties.pdf](http://libraryarchives.metro.net/DPGTL/archaeology/1980_treatment_archaeological_properties.pdf)

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**APPENDIX A: MONITORING DAILY ACTIVITY SHEET**

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 <p>GOVERNMENT OF PUERTO RICO MINISTERIO DE ECONOMÍA</p>	<p>PUERTO RICO 2017 DISASTER RECOVERY  <b>City Revitalization Program</b>          ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES</p>
<p><b>Case ID:</b></p>	<p><b>Project Location:</b></p>
<p><b>Municipality:</b></p>	<p><b>Project Coordinates (lat/long):</b></p>

<b>Site Photos</b>	
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<p><b>Direction of Photo:</b> <a href="#">Click here to enter text.</a>  <b>Description:</b> <a href="#">Click here to enter text.</a></p>	
<p><b>Direction of Photo:</b> <a href="#">Click here to enter text.</a>  <b>Description:</b> <a href="#">Click here to enter text.</a></p>	



# GOVERNMENT OF PUERTO RICO

## STATE HISTORIC PRESERVATION OFFICE

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

Friday, April 19, 2024

### Lauren B Poche

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

SHPO-CF-03-28-24-01 PR-CRP-000127 (Villalba) - Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

After a review of all the documentation, the PRSHPO concurs with your determination that the proposed project will have no adverse effect for this undertaking conditioned to archaeological monitoring during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. We therefore request an archaeology work plan, for our review and concurrence.

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/ EVR



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



October 20, 2022

**Arch. Carlos A. Rubio Cancela**

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

**Re: Authorization to Submit Documents**

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT

March 28, 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-00127: Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project, Villalba, 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 Villalba, HORNE is submitting documentation for the proposed Mejoras a la Plaza Pública José Ramón Figueroa Rivera Project. The proposed project aims to rehabilitate and renovate the plaza, repairing damages caused by Hurricanes Irma and Maria and making the plaza once again a place for intensive public use. Work will consist of a new kiosk, metal pergolas, construction of a new smaller fountain and the demolition of those extant, reorganization of the planters with a new small garden areas, new urban furniture, and changed to make the plaza meet ADA compliance. The full scope of the project is described in detail within the submitted documentation, which includes mapping, photographs, and 90% design plans.

Based on the provided documentation, the Program requests a concurrence with a determination that no adverse effect to historic properties is appropriate for this undertaking, conditioned to archaeological monitoring to be conducted during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

Please contact me with any questions or concerns by email at [lauren.poche@horne.com](mailto:lauren.poche@horne.com) or phone at 225-405-7676.

Kindest regards,



**Lauren Bair Poche. M.A.**

Architectural Historian, Historic Preservation Senior Manager

Attachments

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>CITY REVITALIZATION PROGRAM (CITY-REV)</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Subrecipient:</b> Municipality of Villalba		
<b>Project Name:</b> Mejoras a la Plaza Pública José Ramón Figueroa Rivera		<b>Project ID:</b> PR-CRP-000127

<b>Project Location:</b> Bo. Pueblo Calle Muñoz Rivera #39 Villalba PR 00766	
<b>Project Coordinates:</b> 18.128443, -66.492629	
<b>TPID (Número de Catastro):</b> West Section (#294-082-011-04), Upper East Section (#294-082-011-02), Center-East Section (#294-082-011-03), and South Section (#294-082-012-01)	
<b>Type of Undertaking:</b> <input checked="" type="checkbox"/> Substantial Repair <input type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> 1923	<b>Property Size (acres):</b> 0.689508724

<b>SOI – Qualified Architect/Architect Historian:</b> Jorge L Lizardi Pollock, Ph.D.
<b>Date Reviewed:</b> August 12, 2023, January 26, 2024 (second review)
<b>SOI-Qualified Archaeologist:</b> Jesus E. Vega, Ph.D.
<b>Date Reviewed:</b> December 12, 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.

### Project Description (Undertaking)

The Municipality of Villalba proposes the rehabilitation of the Plaza Pública José Ramón Figueroa Rivera, a historic town square with an approximate area of 30,035 square feet, and its surrounding areas. The proposed project intends to improve accessways and sidewalks by removing accessibility barriers and maximizing the possibilities of uses for the site. It will also replace the town square’s current flooring and planters position to gain uniformity in the whole esplanade, and the 1980’s octagonal kiosk on the upper level and other obstacles will be removed to reorient the plaza’s organizational axis towards the lateral entrances of the catholic parish.

In a more detail, the renovation will include:

- Development of a 250 square feet concrete kiosk for a coffee shop with a bathroom, kitchen and storage on the northwest corner of the Plaza.
- The installation of trellis (metal pérgolas), each one on the different plaza levels (two in the south opposite corners of the plaza and one in at the south side of the new kiosk in the upper segment of the plaza), and 80 square feet each.
- Demolition of the existent fountains and construction of a smaller new one on the west side of the plaza, 28´x 8´ feet.
- Reorganization of planters and creation of a smaller garden areas in the middle level. Existent trees will be preserved.
- Improvements to the stormwater drainage system.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>CITY REVITALIZATION PROGRAM (CITY-REV)</b> <b>Section 106 NHPA Effect Determination</b>		 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
<b>Subrecipient:</b> Municipality of Villalba		
<b>Project Name:</b> Mejoras a la Plaza Pública José Ramón Figueroa Rivera		<b>Project ID:</b> PR-CRP-000127

- The installation of internet infrastructure to provide free public access.
- The development of recharge stations for portable equipment.
- Removal of old and installation of new concrete benches.
- Accessibility will be improved providing ramps and eliminating the separations between the plaza and the sidewalks that surrounds the space, all complying with ADA normative.

The present plaza is divided in three different levels separated by different pitched steps. The rehabilitation of the plaza will reduce the sensation of that separation between them consolidating the place as a single space, changing the existent concrete stairs and building new stairs lower pitched and with lesser steps. Because the existent and significant plaza levels different heights, the demolition plan and excavation for installing new pavement, planters, garden areas and 18 new lampposts will vary between six inches and 36 inches deep. (Photos 1 to 8). Finally, none of the buildings within the indirect APE will be impacted by the undertaking. For further details please refer to the architect's plan developed to 90%.

### **Area of Potential Effects**

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is defined by the boundaries of the Plaza Pública José Ramón Figueroa Rivera, including the adjacent sidewalk, south of the Nuestra Señora del Carmen Church. The direct APE encompasses four different parcels, labeled as the West Section (#294-082-011-04), Upper East Section (#294-082-011-02), Center-East Section (#294-082-011-03), and South Section (#294-082-012-01), and is limited to the north by the churchyard gate of the Nuestra Señora del Carmen Church, to the south by Antolin Castillo Street, to the west by Barceló Street, and to the east by Luis Muñoz Rivera Street (PR-149R Road). The North Section (#294-082-011-01) of the Plaza Pública José Ramón Figueroa Rivera, where the church is located, is not included in the direct APE. The direct APE comprises 28,730 square feet (169 x 170 feet) and the indirect APE or viewshed of the proposed project comprises 42,487 square feet (221 x 215 feet). Buildings in the visual APE have been reduced over the years, particularly on the eastern side of the plaza as buildings were demolished to make way for parking lots around the city hall and buildings on the west side of the plaza were demolished in early 2023 to make way for new construction. Notable buildings are the parish church to the north, former fire station to the east which is adjacent to the city hall, and an Evangelical church to the south.

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<b>Subrecipient:</b> Municipality of Villalba		
<b>Project Name:</b> Mejoras a la Plaza Pública José Ramón Figueroa Rivera		<b>Project ID:</b> PR-CRP-000127

### Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior’s Professional Qualification Standards (36 CFR Part 61), shows that the project area is within a quarter-mile radius of seven recorded archaeological sites and/or NRHP listed/eligible historic properties pertaining to the Villalba Traditional Urban Center, described below, and highlighted in the aerial and topographic maps included. “No data” denotes no corresponding Institute of Puerto Rican Culture (IPRC), State Historic Preservation Office (SHPO), or National Register of Historic Places (NRHP) identification was found.

Table 1. Archaeological Sites and/or NRHP Listed/Eligible Historic Properties Within Quarter-Mile Radius of Project Area

#	Name	SHPO ID	IPRC ID	Location	Description	NRHP
1	Parroquia Nuestra Señora del Carmen	No data	No data	0.01 mi N	Historic, Catholic cathedral named in honor of Doña Carmen Reyes de Figueroa, the wife of prominent coffee <i>hacendado</i> , entrepreneur, and politician José Ramón Figueroa Rivera, founder of Villalba; the original wooden church was built circa 1895 on a land plot donated by José Ramón Figueroa Rivera, whom with the help of his lawyer Herminio Díaz Navarro and Don Ramón Soldevilla, had obtained a construction permit from the <i>Ministro de Ultramar</i> in Madrid in 1893, who then sought Pope León XIII’s approval; the actual church was designed by Francisco Porrata Doria and built in 1928, then renovated in 1990; the façade contains a “JHC” Christogram of	No data



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					medieval origin, denoting the first three letters of the Greek name of Jesus, ΙΗΣΟΥΣ (iota-eta-sigma), in latinized letters; located on the north section of the town square, between Luis Muñoz Rivera, Figueroa, and Barceló Streets.	
2	Iglesia Centenaria	No data	No data	0.01 mi S	Historic, Evangelical church named <i>Iglesia Evangélica Unida de Puerto Rico en Villalba</i> , inaugurated in 1905; located south of the town square, on the junction of Luis Muñoz Rivera and Antolin Castillo Streets.	No data
3	Casa Alcaldía	No data	No data	0.01 mi E	Historic, two-story, concrete city hall building inaugurated in 1948; also known as <i>Casa del Pueblo</i> ; located east of the town square, on Luis Muñoz Rivera Street.	No data
4	Estación de Bomberos	No data	No data	0.01 mi E	Historic, mid 20 <sup>th</sup> century, two-story concrete firehouse station, one of several built after World War II; currently in use as the Municipal Revenue Collection Center; located east of the town square, next to the <i>Casa Alcaldía</i> , on Luis Muñoz Rivera Street.	
5	Escuela Walter McKown Jones	No data	No data	0.07 mi NE	Historic, one-story, reinforced-concrete public school built between 1924-1925 by the local government and inaugurated in 1926; designed by famed Puerto Rican architect Rafael Carmoega Morales, who played a significant role in	Listed



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					the construction of schools during the 1920s and 1930s; considered an eclectic architectural composition, featuring Neoclassical, Mission/Spanish Revival, and Prairie elements; named after Walter McKown Jones, a Boston-born American entrepreneur who relocated to Ponce between 1905-1906 and then settled in Villalba, acquiring a coffee plantation named <i>Hacienda El Limón</i> in Hato Puerco Arriba Ward, and later became Villalba's first mayor in 1917; currently, the school is part of a multi-building campus comprising thirteen buildings; located on Luis Muñoz Rivera Street, in front of Scharton Street.	
6	Colegio Nuestra Señora del Carmen	No data	No data	0.15 mi SE	Historic, two-story, concrete school building; originally built as the <i>Hotel Toro Negro</i> by Walter McKown Jones in the 1920s; located in McJones Street.	No data
7	Cementerio Municipal	No data	No data	0.18 mi NW	Historic, 20 <sup>th</sup> century, public cemetery; an earlier cemetery was established in 1895; located west of Villalba's urban center and north of PR-149 Road.	No data

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Table 2. Cultural Resource Studies Conducted Within Quarter-Mile Radius of Project Area

Author	Title	Year	SHPO/IPRC ID	Results	Location
Jorge Rigau	Nomination of Walter McKown Jones School to National Register of Historic Places	2013	12001249	Positive	0.07 mi NE
Jorge Rigau	Nomination of Early XXth Century Schools in Puerto Rico (Thematic Group) to the National Register of Historic Places	1987	64000740	Positive	0.07 mi NE
Lydia Ivette Ortiz Archilla	Phase 1A-1B, Construcción Teatro Municipal	1999	CAT-VL-99-03-03	Negative	0.05 mi N
Jesús S. Figueroa Lugo	Phase 1B, Construcción de Segmento de PR-149	1985	CAT-VL-85-01-01	Negative	0.08 mi NW
Jesús S. Figueroa	Phase 1A, Plaza del Veterano, Calle Antonio R. Barceló, Esq. Vencebil y McJones	2012	CAT-VL-12-05-05	Negative	0.09 mi SE
Ethel V. Schlafer Román	Phase 1A-1B, Banco Popular, Sucursal de Villalba, Carretera Estatal PR-149	2005	CAT-VL-05-03-09	Negative	0.10 mi N

### Cultural Setting

The Municipality of Villalba is located in the south-center of Puerto Rico, north of Juana Díaz and south of Orocovis. Villalba has a mountainous topography. There is no evidence of human occupation prior to 600 AD. The Villalba Traditional Urban Center (TUC) is about 9.85 miles from the south or Caribbean coast of Puerto Rico. Overall, the oldest archaeological sites in Puerto Rico are found in coastal municipalities, or under water due to sea level changes. Compared to other municipalities, so far Villalba has yielded no preceramic or Archaic sites, few prehistoric ceramic sites, and no early historic sites associated with the colonization of Puerto Rico.

The State Historic Preservation Office (SHPO) reports six prehistoric sites for Villalba, as follows: Atabeira (VL0100001), Cueva de las Guabás (VL0100002) and Caonillas (VL0100003), all three located in Barrio Caonillas, V-4 (VL0100004) in Barrio Vaca, and R-1 (VL0100005) and Llano de Sabino (VL0100006) in Barrio Hato Puerco Arriba. All of these prehistoric sites are outside of the Villalba Traditional Urban Center, and beyond a quarter-mile radius of the direct APE. The closest prehistoric site is V-4 (VL0100004), a multicomponent site with Ostiones and Santa

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Elena ceramics, roughly dated about 600 AD, and located about 0.56 miles northeast of the direct APE. In 1986, Jeff Walker, of the State Historic Preservation Office (SHPO), and Ovidio Dávila, of the Institute of Puerto Rican Culture (IPRC), briefly surveyed the V-4 site. Jacqueline López also discussed V-4 in her 2002 regional study for the Puerto Rico Aqueduct and Sewer Authority (PRASA), and more recently by Aramis Font, who described V-4 as a large site on a terrace of the Jacaguas River. Other sites associated with the Jacaguas River are R-1 (VL0100005), a ceramic site detected by Antonio Daubón (1986), and Llano de Sabino (VL0100006), with prehistoric ceramics and lithics detected by Harry Alemán Crespo (2000). In his Phase 2 study for the Villalba to Juana Díaz Trunk Sewer, Armando Martí (1987) was unable to relocate the site reported by Daubón, suggesting that the archaeological materials may have been transported by the river, or by modern trucks moving sediment and trash. Finally, the sites of Atabeira (VL0100001) and Cueva de los Guabás (VL0100002) are cave sites with aboriginal petroglyphs and pictographs.

After Juana Díaz separated from Ponce, Villalba became a *barrio* of Juana Díaz, with sparse settlements along the Jacaguas River during the early 19th century. By 1865, there was already a hamlet made up of six houses, including that of Don Zenón Bracetti, a prominent citizen. In 1882, a business was established by Juan De Dios Negrón. That same year, José Ramón Figueroa Rivera built a large house known as *La Villa Carmen* in what is now the San Cristóbal Health Center, northeast of the church and town square.

José Ramón Figueroa Rivera, a Comerío-born entrepreneur with family ties to the town of Villalba in the Province of Lugo, Galicia, Spain, settled near the Jacaguas River circa 1875. Although there were earlier settlers, Figueroa founded the new town of Villalba along with Walter McKown Jones, a prominent American entrepreneur from Boston who had relocated to Ponce in 1906. He was involved in coffee and tropical fruit production and exports, bought land in the mountains of Villalba, developed *Hacienda El Limón*, and built and operated a small hotel and other small local businesses. Interested in politics, McKown Jones was elected to the *Consejo Municipal de Juana Díaz* in 1910. He was also well-connected to upper class Americans living in Puerto Rico, marrying Helen W. Buchanan in 1916. She was the daughter of Brigadier General James A. Buchanan, who served in Puerto Rico from 1898 to 1903.

Villalba became an autonomous municipality in 1917, as decreed by Law #42 of April 12, 1917, which came into effect on July 1st. McKown Jones was chosen by the new *Consejo Municipal of Villalba* as its first mayor. He also served as justice of the peace, municipal school director and treasurer, and continued his involvement with *Hacienda Limón* and the smaller *Central Juliana*. Thanks to the effort of Figueroa and McKown Jones, Villalba became one of the first towns with public electricity and aqueduct service, earning it the nickname of *Ciudad de los Avancinos*. A liberal politician, McKown Jones promoted the election of a native

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governor and supported independence for Puerto Rico. He died in Washington, D.C. in 1944, with his ashes flown and buried in Villalba.

Overall, Villalba is a small, relatively recent town. The original Catholic parish was built of wood, in 1895, at the north end of the plaza, on land donated by José Ramón Figueroa. An Evangelical church was built in concrete, in 1905, immediately south of the plaza. The existing town square was built circa 1923, immediately south of the Nuestra Señora del Carmen Church. The existing Catholic parish was built in concrete in 1928, with its entrance facing east towards the rising sun. Immediately east of the plaza is the Villalba City Hall, or *Casa Alcaldía de Villalba*, built in 1948. An old fire station was built in the 1940s next to the city hall building, and currently operates as the Municipal Revenue Collection Center or CRIM.

#### Potential for Intact Deposits

The Villalba Traditional Urban Center does not contain an earlier stratum of 16th to 17th century Spanish colonial occupation, or any known prehistoric, aboriginal Taíno settlements within the urban center. All known historic properties within the Villalba Traditional Urban Center are late historic, built during the first half of the 20th century. The only significant property dating to the 19th century was the original church demolished and replaced by the existing church in 1928.

At the site files of the State Historic Preservation Office (SHPO) and the Institute of Puerto Rican Culture (IPRC), no prehistoric or early historic sites have been identified within the Villalba Traditional Urban Center, or within a quarter-mile radius of the direct Area of Potential Effect (APE). Historic aerial photographs reveal, however, that two or more buildings potentially dating from the late 19th century or early 20th century were demolished within the direct APE in the late 1980s and in the 1990s when both, the Plaza and the Church were renovated after the impact of Hurricane Hugo in September 18, 1989. Therefore, potential archaeological materials associated with these demolished buildings may be anticipated for the project. (Refer to the Identification of Historic Properties -Architecture for further details regarding the scarce available information of the buildings, reasons for their demolition, approximate construction dates and materials). Because the renovation that the Plaza underwent in the 1990s required the demolition of the ruins of buildings that could be from the late nineteenth or early twentieth century, it is recommended to carry out archaeological monitoring during the excavation works that the electrical infrastructure and reforestation of the place will need.

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### History of Use

The historic town square of Villalba, initially named Plaza Luis Muñoz Rivera, was constructed circa 1923 on a plot of land donated by founder José Ramón Figueroa Rivera after Villalba successfully seceded from Juana Díaz and became an autonomous municipality in 1917. The original Nuestra Señora del Carmen Church, a quaint wooden church, had already been built on the north end of the land in 1895 (Figure 1), and became integrated to the plaza’s design. It was named after the deceased Doña Carmen Reyes, widow of José Ramón Figueroa, who also played a pivotal role in the formation of the urban center. In 1928, the actual concrete church was erected. Flanked by Achioté Creek to the west and Jacaguas River to the east, the town square and church can be identified in several 20<sup>th</sup> century USGS topographic maps from 1943, 1952, and 1957 (Figures 2, 3, and 4).

In late 1980, Plaza Luis Muñoz Rivera was renamed Plaza Pública José Ramón Figueroa Rivera, and the Nuestra Señora del Carmen Church were renovated. Throughout the 20<sup>th</sup> century and until the 1980 the principal structural characteristics of the town square have remained relatively unchanged. However, the square was remodeled and expanded, gaining the character it has today. The renovation occurred probably at the same time as the Catholic parish's renovation in 1989. The renovation of both, the plaza and the church happened because damages caused by Hurricane Hugo in 1989, which probably destroyed the remains of the buildings that occupied the now suppressed urban block and streets. From that point on, the plaza was divided essentially into a lower and upper level, each one is accessed by sets of stairs that ascend toward the church and laterally descend to the surrounding streetscape: Antolin Castillo Street to the south, Barceló Street to the west, and Luis Muñoz Rivera Street (PR-149R Road) to the east.

The lower level, or South Section (#294-082-012-01), sports a fountain at the center, with two small bridges crossing on each side. A bust of José Ramón Figueroa Rivera accompanied by bronze plaque can be found on the northeast corner. The other bust, commemorating Agustín Burgos, sits beside the sidewalk on the southeast corner, outside the plaza itself. The upper level encompasses the West Section (#294-082-011-04), Upper East Section (#294-082-011-02), and Center-East Section (#294-082-011-03), which form an open space articulated around a centric gazebo, and the North Section (#294-082-011-01), separated from the rest of the plaza by the churchyard gate around the Nuestra Señora del Carmen Church. A provisional tent shades the lateral entrance to the church, which faces east.

From 1990s onwards, available aerial photographs from the 1990s provided by Google Earth Pro, demonstrate the lack of significant structural changes to the Plaza Pública José Ramón Figueroa Rivera (Figures 5, 6, 7, 8 and 9). Overall, the Plaza Pública José Ramón Figueroa



Subrecipient: Municipality of Villalba

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Rivera remains in satisfactory condition, despite the devastation throughout the island caused by hurricanes Irma and María in September 2017 (Figure 10), and, more recently, hurricane Fiona in September 2022.



*Aspecto exterior de la Iglesia Católica original de Villalba, hacia 1910. Colección de Raúl Medina (Ponce).*

**Figure 1.** Façade of original wooden church built in 1895 on plot of land donated by José Ramón Figueroa Rivera and Doña Carmen Reyes, as seen in 1910. (Fundación de Iglesia. Figueroa, Ricardo José. 1999. <[http://villalba\\_pr.tripod.com/iglesia.html](http://villalba_pr.tripod.com/iglesia.html)>)

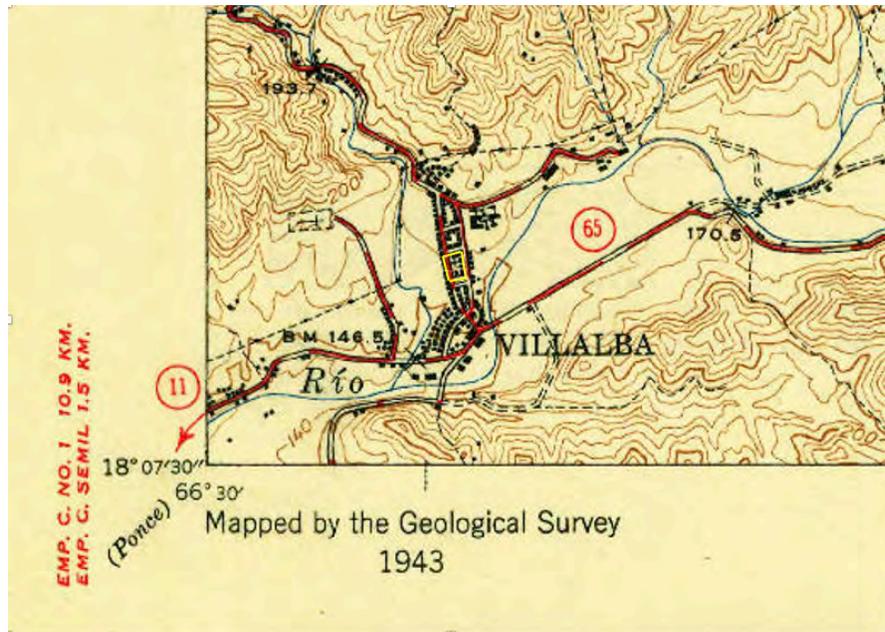


Figure 2. Villalba urban center in a 1943 topographic map of Orocovis. Scale 1:30,000. (United States Geological Survey)

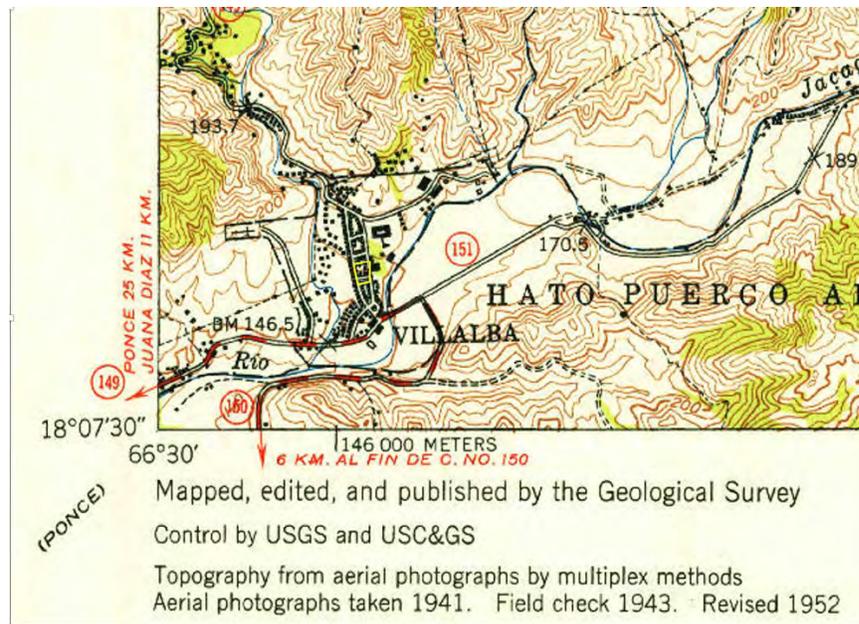


Figure 3. Villalba urban center in a 1952 topographic map of Orocovis. Scale 1:30,000. (United States Geological Survey)



Subrecipient: Municipality of Villalba

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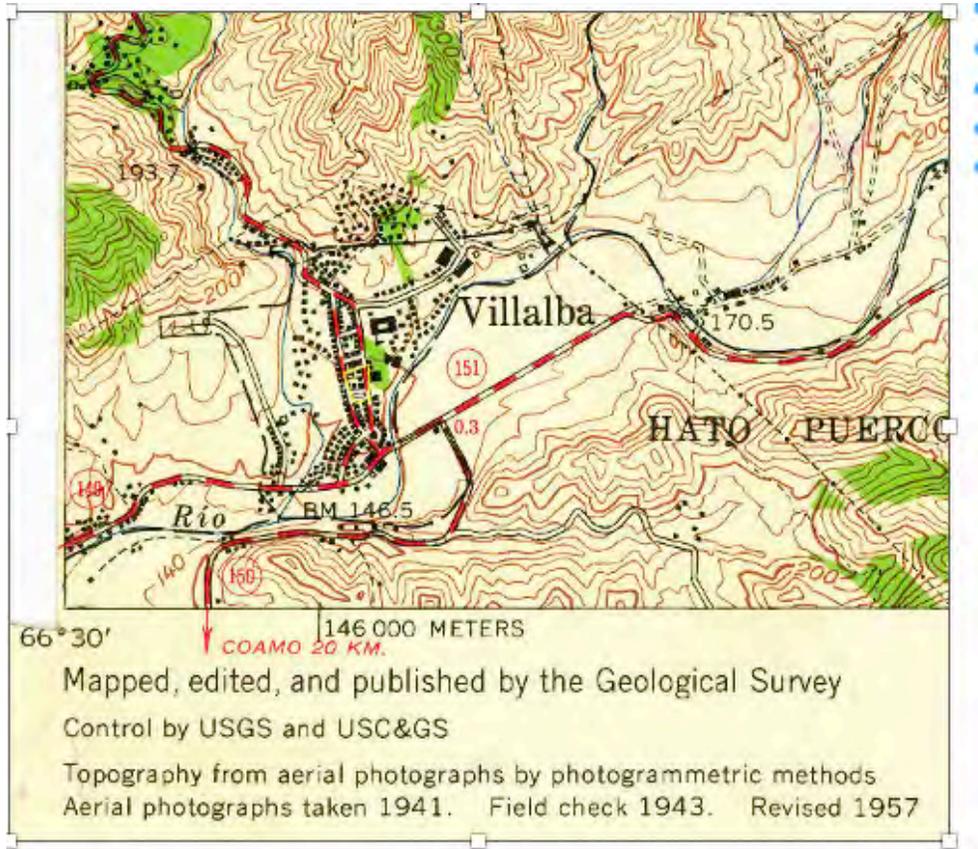


Figure 4. Villalba urban center in a 1957 topographic map of Orocovis. Scale 1:20,000. (United States Geological Survey)

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

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Figure 5. 1995 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)

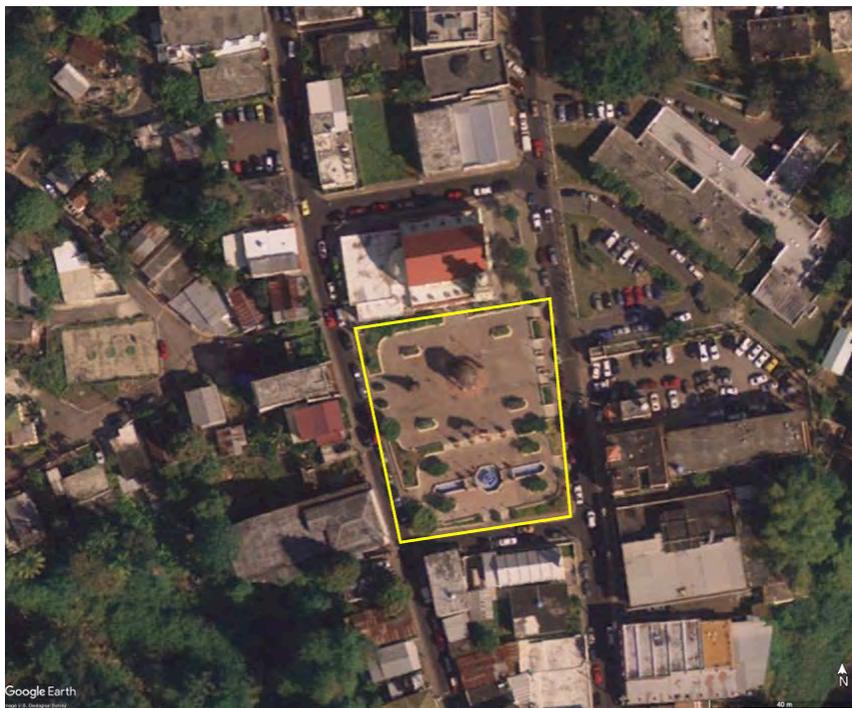


Figure 6. 2006 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Figure 7. 2009 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)

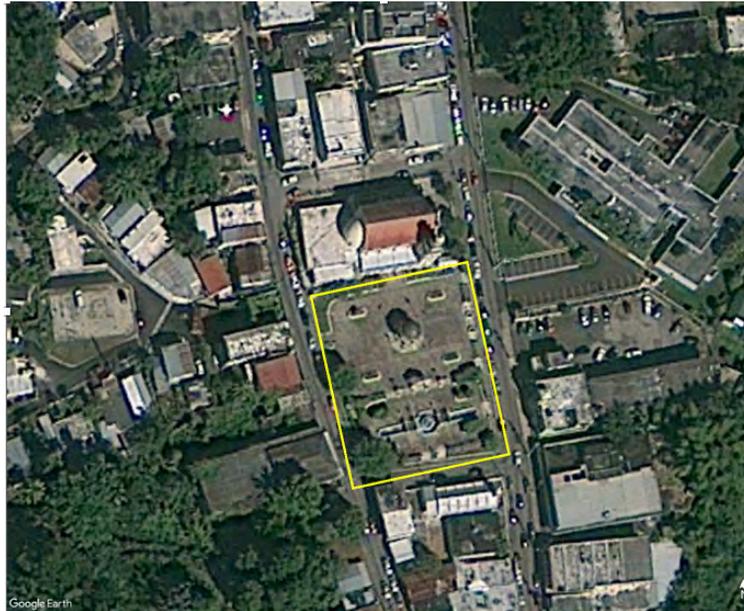


Figure 8. 2012 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)



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Figure 9. 2014 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)



Figure 10. 2017 aerial photograph of the Villalba urban center. (Maxar Technologies, Google Earth Pro)

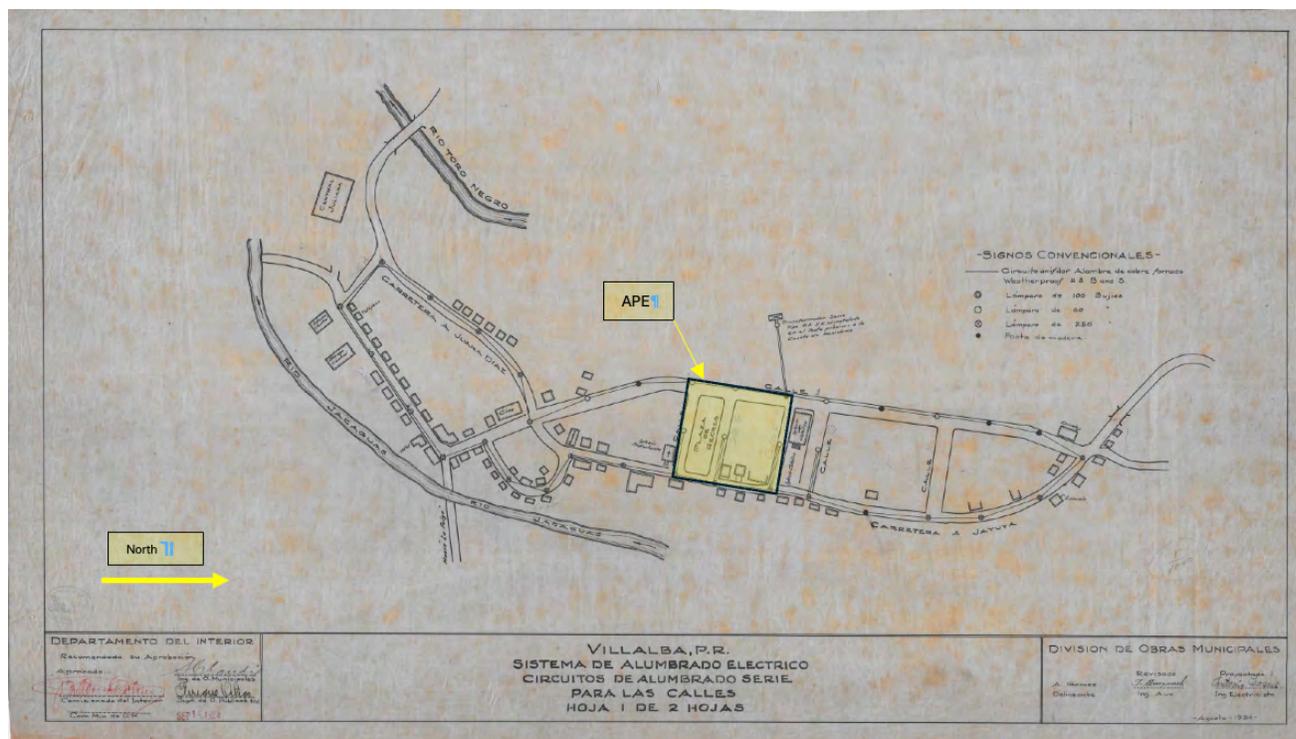
<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>CITY REVITALIZATION PROGRAM (CITY-REV)</b> <b>Section 106 NHPA Effect Determination</b>	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
<b>Subrecipient:</b> Municipality of Villalba	
<b>Project Name:</b> Mejoras a la Plaza Pública José Ramón Figueroa Rivera	<b>Project ID:</b> PR-CRP-000127

### 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 within the boundaries Villalba Traditional Urban Center, which is an eligible district to National Register of Historic Places. There are seven eligible properties in Villalba as it is shown in Table 1. (Archaeological Sites and/or NRHP Listed/Eligible Historic Properties Within Quarter-Mile Radius of Project Area). The Walter McKown School is already included in the NRHP and the Plaza itself is an eligible property. No registered properties, in the other hand, is shown on the Planning Board Site.

Determining precisely when the Plaza de Villalba was created is impossible. Surely there would already be some footprint used as a public space when the place was just a ward of the municipality of Juana Diaz. The foundation of Villalba as an independent town in 1917 should be considered the moment in which the Plaza was created.

In 1924, and probably on the initiative of one of the wealthy residents, such as Walter McKown Jones, electric lighting was installed in the town. The plan drawn up by the Municipal Public Works Division of the Department of the Interior in 1924 identified the footprint of the Plaza and its surroundings (see Figure 11) by that time. The esplanade was a rectangular space oriented east to west between the current Muñoz Rivera and the Barceló streets. The Antolín Castillo Street and a Presbyterian (now evangelical) church, established in 1905 and occupying a concrete building in the southeast corner, flanked the south of the Plaza. The current Presbyterian church building is probably not the same as the one identified in 1924. The current one is made of concrete and has a concrete gabled roof and a central bell tower where its entrance is located. This entrance exhibits an arched lintel with an archivolt, flanked by two columns with capital but without a base. The architectural traits of this central element suggest this is the oldest part of the temple, probably built in the 1930s.



**Figure 11.** Villalba PR. Plan del Sistema de Alumbrado Eléctrico. División de Obras Municipales. 1924. Retrieved from Archivo Digital Nacional.

Currently, the Plaza and the Nuestra Señora del Carmen parish at the northern end of the esplanade are barely separated by a line of concrete benches and planters with palms and ornamental shrubs. The 1924 electrification plan indicates that between the square and the Church, there was an urbanized block twice the size of the Plaza and another short street between it and the temple. The map suggests as well, that in 1924 the catholic parish was still the modest wooden temple built in 1895, and its footprint occupied an equally rectangular block, had a staircase on its façade, and its setback from Muñoz Rivera Street left a more expansive atrium than the one the actual building has. It is also clear from the map that the town hall across the street and in front of the Plaza was not yet been built. The town hall was designed and built in 1948. Because of its spatial characteristics and aesthetical traits, it is possible to affirm that it was one of the several town halls conceived by the Design Committee of the Department of the Interior during the governorship of Rexford G. Tugwell. The building is considered eligible for listing in the National Register (Figure 12).



Figure 12. Villalba's Town Hall.

As per USGS aerial imagery and USGS historic topographical maps, until the 1980's, the block between the Plaza and the Church was occupied by some houses (See Figure 13 and Figure 15), three facing Muñoz Rivera Street and three facing Barceló Street. From what can be appreciated in the USGS 1958 aerial photo (See Figure 13), the ones that were oriented towards Muñoz Rivera Street looks larger, faced the street, and had rectangular floor plans. Of the structures facing Barceló Street, the one on the south corner seems to be larger, with a rectangular floor plan, while the rest to the north are smaller and exhibit square floor plans. Because the shades, the aerial photo also suggests that all properties use to have gabled roofs covered by metal sheets, but there are no available sources that can inform about the rest of the property's characteristics.



**Figure 13.** USGS 1958 aerial photo from Villalba

Villalba's Plaza underwent minor changes between 1924 and 1980s. The parish was first rebuilt between 1928 and 1929, following a design by the architect Francisco Porrata Doria and at the initiative of Ponce's bishop, Monsignor Luis J. Willinger, who promoted several new churches in some towns after the devastation caused by Hurricane San Felipe. (Marvel and Moreno, *Architecture of Parish Churches in Puerto Rico*. San Juan, Editorial de la Universidad de Puerto Rico, 1984, pp. 184-85). The USGS 1977 aerial imagery indicates, in the other hand, that the Plaza still had the same footprint of 1958. However, due to the Hurricane Hugo

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damages in 1989, extensive renovation works took place in both the affected Church and over the footprint of the present suppressed block. Villalba municipality took advantage of the ruinous states of the houses for remodeling and expanding the Plaza towards the north, gaining the character it has today, as previously described in the archaeological section. The renovation occurred probably shortly after the Catholic parish's renovation in 1989 that added, between others, a bell tower. The 1995 aerial image provided by Google Earth Pro shows that the consolidation of the space was already a fact in that year.

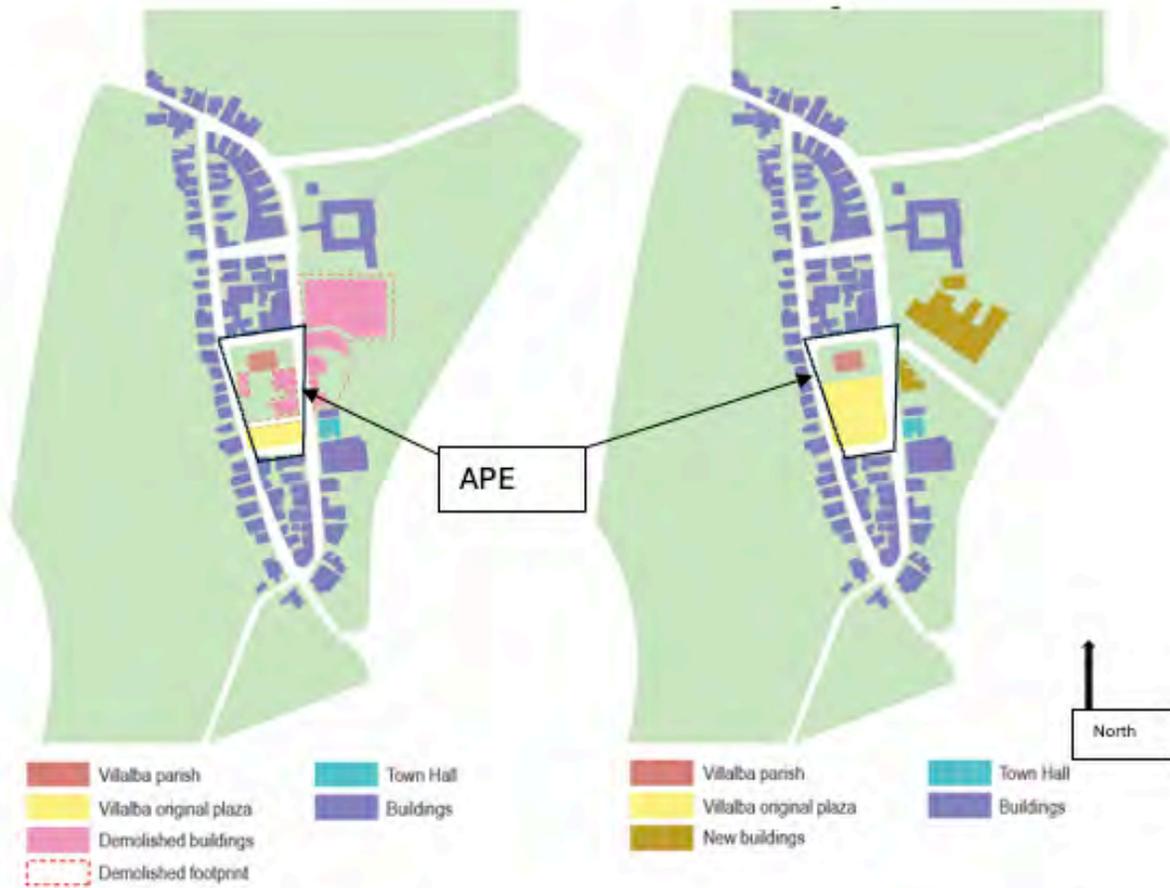
The 1928-29 church designed by Porrata Doria faces east, like the original wooden one. It has three bays, and an exedra covered by a semi-dome shelters the main altar. It is topped with a gabled wood and metal roof, with decorative corbels on the interior walls. Despite being an eclectic design that combines Spanish revival, neoclassical and neo-Gothic elements, the Porrata Doria design exhibits a strict symmetry in all its elevations. The church entrance is framed by two concrete buttresses, a short entrance tympanum covered by a short overhanging eave with clay shingles on top, flanked by two pseudo-Romanic columns. Over it, there is a niche with a sculpture of the Virgen del Carmen, flanked by two ogival windows, above an oculus with stained glass, a roof crowned by denticles and cornice, and a simple Latin cross. The lateral elevations are equally symmetrical, segmented by buttresses, paired ogival stained glass windows between them, and an access tympanum in the center. The 1989 renovation ended the symmetry conceived by Porrata Doria, adding a stepped bell tower on the left side of the façade and a new nave, although lower than the clerestory windows. On the left side of the façade, a building that serves as an extension of the Church's interior space and as a parish house was annexed. The wrought metal fences that surrounded the atrium and perimeter of the temple were replaced by others of more modern design, thus maintaining the separation between the building and the Plaza. (Figure 14).



**Figure 14.** Villalba’s catholic parish façade, actual.

The renovation of the Plaza and the Church did not achieve the unification of the public square. The unevenness between the two esplanades that make up the present square, the pair of stairs, the fence, and the urban furniture in its perimeter reinforce the perception of this separation. It should be noted that although this renovation gave greater visibility to the south elevation of the Catholic parish and its clerestory, the Plaza still does not function as an atrium for the temple. It is not uncommon to find that kind of spatial arrangement, in which the Church orients its façade toward one of the town's main streets, and one of its lateral elevations is oriented toward the town's Plaza. The reasons for this are diverse, but in general, they are related to changes in the city's layout over time. (Figure 15)

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**Figure 15.** Analysis of Villalba’s urban transformation between 1958 and present.

The urban center of Villalba has mostly stayed the same if we compare it with other TUCs. It is framed by two long streets from south to north: the Muñoz Rivera, which also leads to the municipality of Jayuya, the Barcelo Street to the west, and just three streets-oriented east-west. In that sense, Villalba does not show the typical Spanish colonial urban grid organization. The street that has changed the most is Muñoz Rivera, where the town hall was built in 1948 in an eclectic style, with Art Deco and Modern elements, just in front of the southern segment of the Plaza. A small fire station was also built, following the Deco typology of the various stations erected during World War II on the whole Island. (Figure 16)



**Figure 16.** Former Villalba’s Fire Station.

Nevertheless, several structures were demolished on the same street to build a small hospital and a public library northwest of the Plaza, while on the west side, a fine arts center and a public transportation station were erected. (Figure 15). Apart from the Church designed by Porrata Doria, the building with more historical integrity was formerly occupied by the Walter Mackown School Jones. The school is a reinforced concrete building, inaugurated in 1926, designed by the Public Works office of the Department of the Interior when directed by the architect Rafael Carmoega. This eclectic building combines neoclassical, California mission style and Beaux-Arts elements. It is organized around an interior courtyard, and its façade exhibits an arcade of seven rounded arches supported by paired columns. (Figure 17). The NRHP-listed school, listed in the NRHP on January 29, 2013, is located 0.07 miles northeast of the square. It is eligible under Criterion C.



**Figure 17.** Former Walter Mackown Jones School.

Except for the fence that demarcates the space of the Catholic parish, none of the other historic sites in the vicinity of the square will be affected by the proposed remodeling of the José Ramón Figueroa Rivera Plaza. The square itself was significantly transformed in the 1990s. The land was probably removed and filled to cope with the unevenness of the terrain. The present renovation proposal aims to consolidate the esplanade as a more unified space. It will also highlight the lateral elevation of the parish and its clerestory by eliminating visual obstacles, such as the hexagonal kiosk in the middle of the Plaza and reinforcing its axial organization to the north. Removing and renovating elements in the square, such as its pavement and furniture, should not affect historical elements.

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## Determination

The following historic properties have been identified within the APE:

- **Direct Effect:** Two historic properties are present within the direct APE: the Plaza Pública José Ramón Figueroa itself, built circa 1923, and the Parroquia Nuestra Señora del Carmen de Villalba, built in 1928. Unlike most historic parish churches separated by a street from the plaza, in Villalba the church was erected on what became the north end of the plaza after the suppression of an urban block with some five to six buildings. The ground beneath the town square has, in that sense, potential for the presence historic deposits.
- **Due to the late historical development of the Villalba Traditional Urban Center in the early 20<sup>th</sup> century, there are no archaeological materials of the 16<sup>th</sup> to 18<sup>th</sup> centuries as may be found in other towns, or any known aboriginal pre-Columbian settlement. The original, wooden church, built circa 1895, was demolished to build the existing concrete parish in 1928; all known urban structures in the Villalba Traditional Urban center were built or extensively renovated after 1917 and none of them will be affected by the project undertaking.**
- **Indirect Effect:** There are four individually significant historic properties present within the indirect/visual APE. The Iglesia Evangélica Unida de Puerto Rico was built in 1905, immediately south of the Plaza Pública José Ramón Figueroa, opposite the Catholic parish at the north end of the plaza. There is also the Villalba City Hall, or *Casa Alcaldía de Villalba*, a concrete structure built 1948, across Luis Muñoz Rivera Street, and an old fire station also east of the plaza and immediately north of the city hall. The late historic fire station has the standard design of the 1940s firehouse station, built circa 1948 and now incorporated to the Villalba City Hall has a wing or annex.

Based on the results of our historic property identification efforts, the Program has determined that project actions will not adversely affect the historic properties that compose the Area of Potential Effect (APE). However, because the renovation that the Plaza underwent in the 1990s required the demolition of the of buildings that could be from the late nineteenth or early twentieth century, it is recommended to carry out archaeological monitoring during the excavation works that the electrical infrastructure, surface leveling and reforestation of the project will need.

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**Recommendation**

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

No Historic Properties Affected

No Adverse Effect

Condition: Archaeological monitoring should be conducted during ground disturbing activities for the project due to the potential for deposits associated with late 19th to early 20th century buildings demolished during the 1990s plaza renovation. An archaeological monitoring plan will be prepared and submitted to the PRSHPO for review and approval.

Adverse Effect

**This Section is to be Completed by SHPO Staff Only**

The Puerto Rico State Historic Preservation Office has reviewed the above information and:  <input type="checkbox"/> <b>Concurs</b> with the information provided. <input type="checkbox"/> <b>Does not concur</b> with the information provided.	
<b>Comments:</b>  	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127

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



Source: 2022 Aerial Photograph, Google Earth Pro 7.3.4.8642



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127

### Project (Parcel) Location - Aerial Map



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

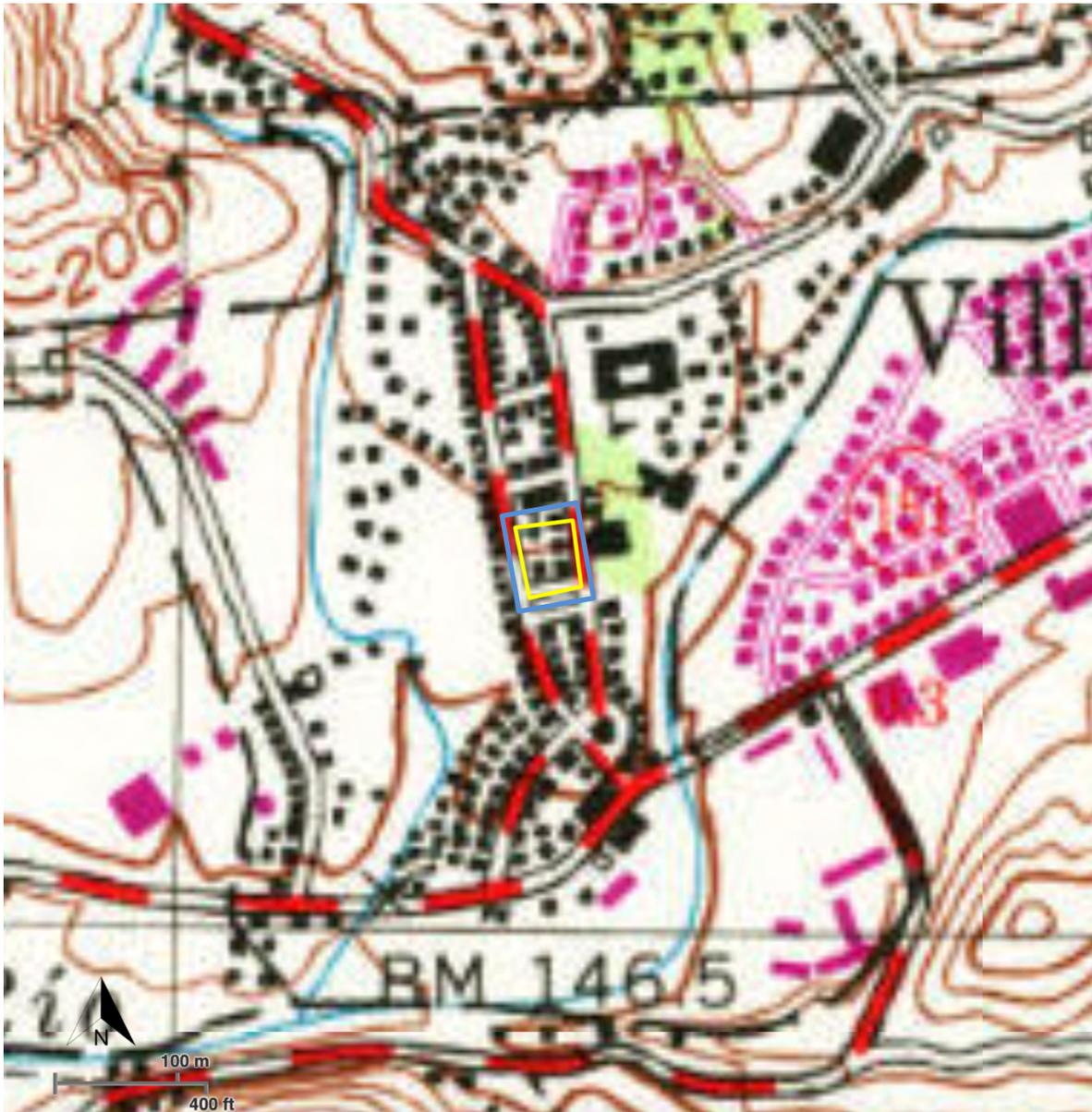


Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127

### Project (Parcel) Location - USGS Topographic Map



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

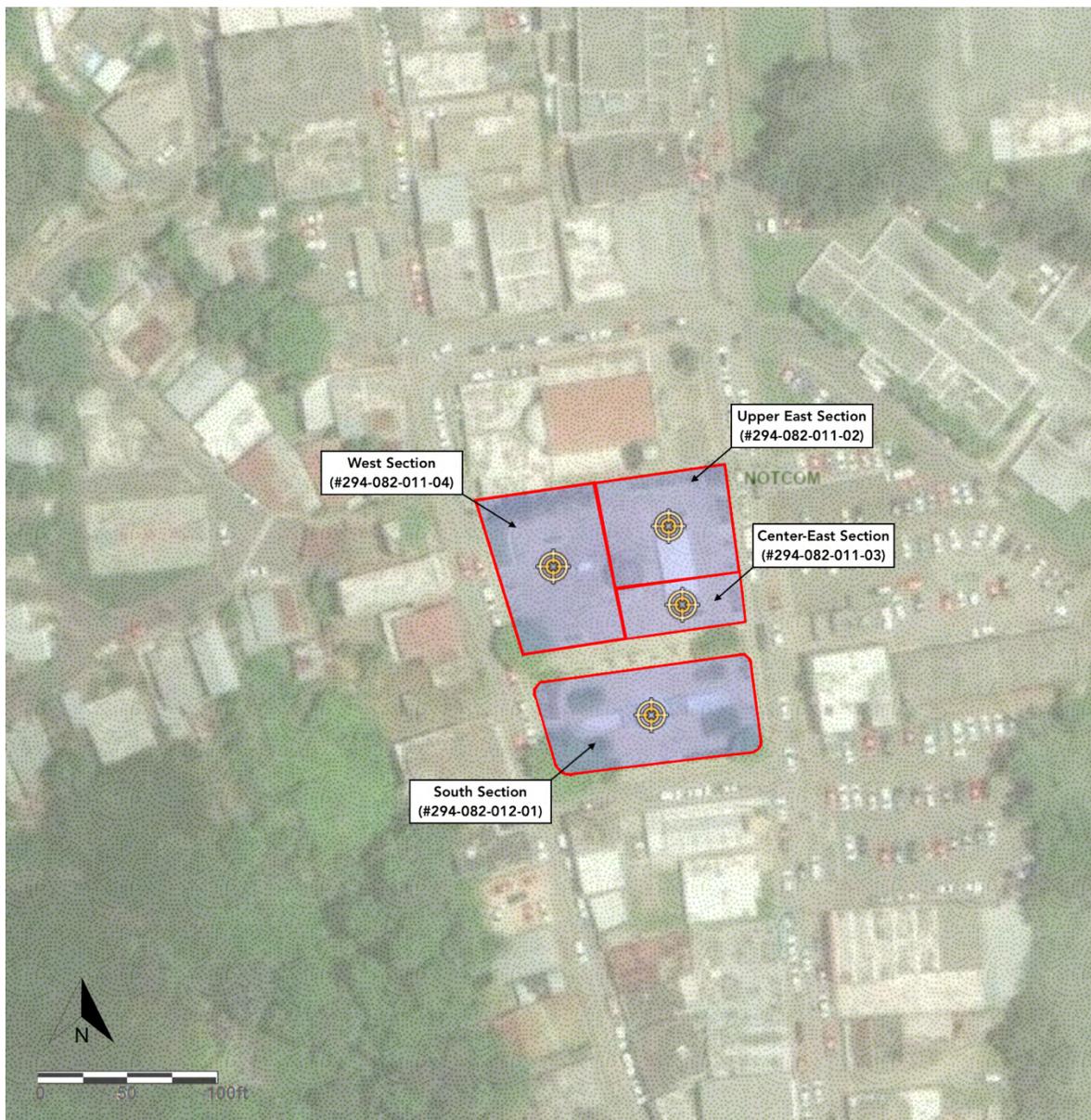


Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127

### Project (Parcel) Location - Soils Map



Source: Interactive Map of Planning Board, MIPR (<http://gis.jp.pr.gov/mipr/>)

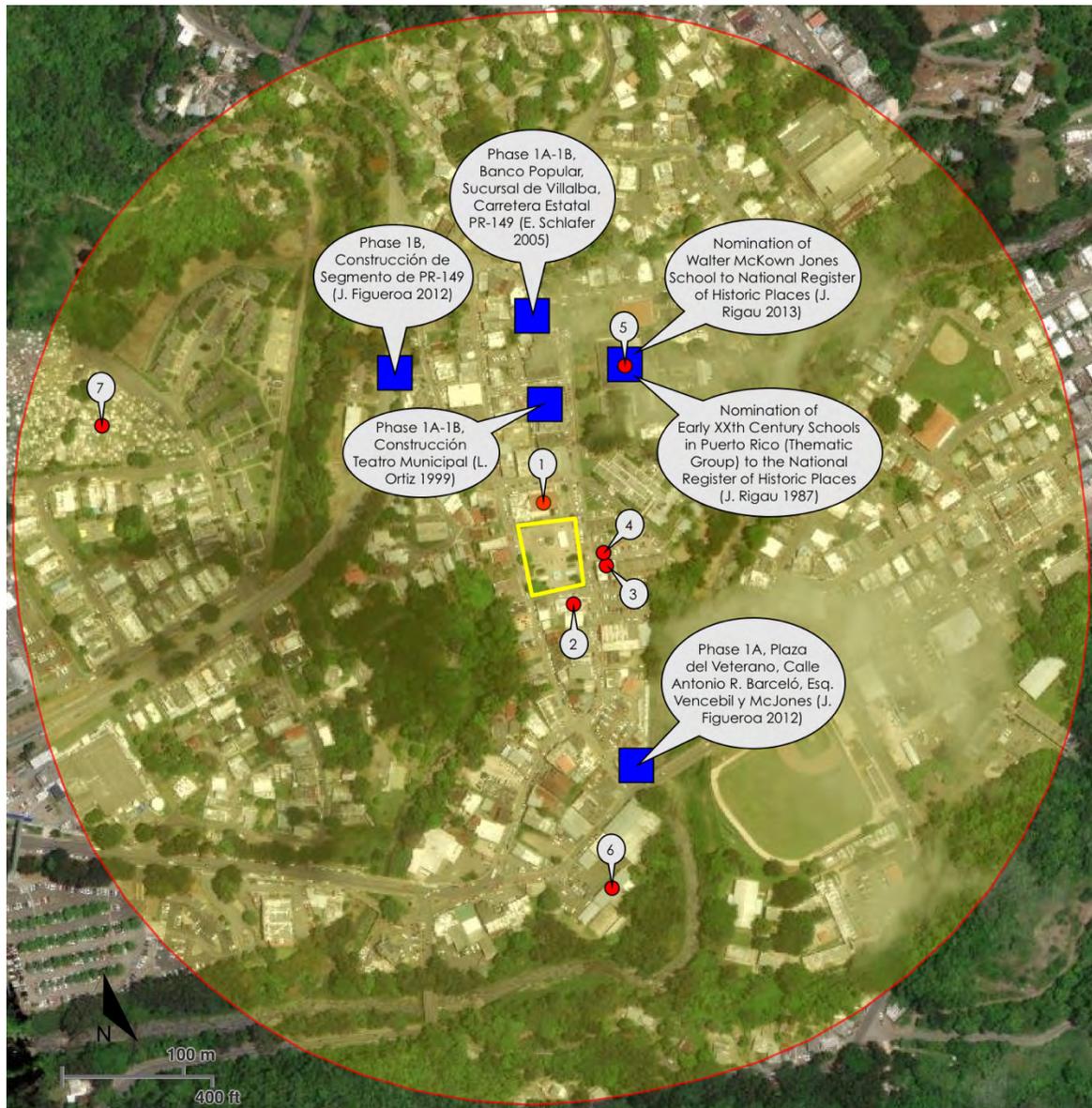
Note: Soil (NRCS): SNS (Soil Not Surveyed) / Classification PUT: Urban Soil

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127

### Project (Parcel) Location with Previous Investigations and Recorded Historic Properties Within a Quarter-Mile Radius - Aerial Map



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

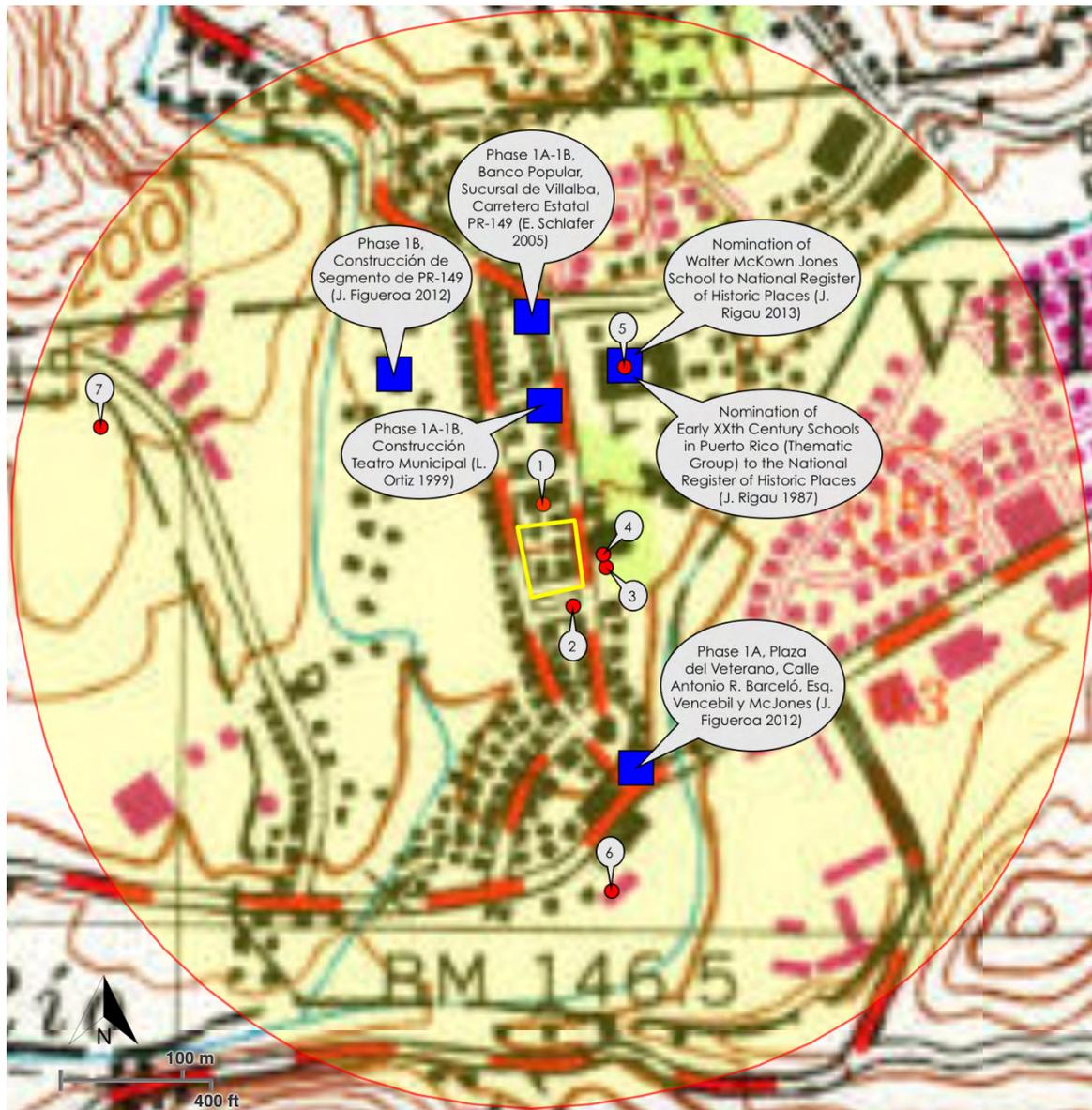


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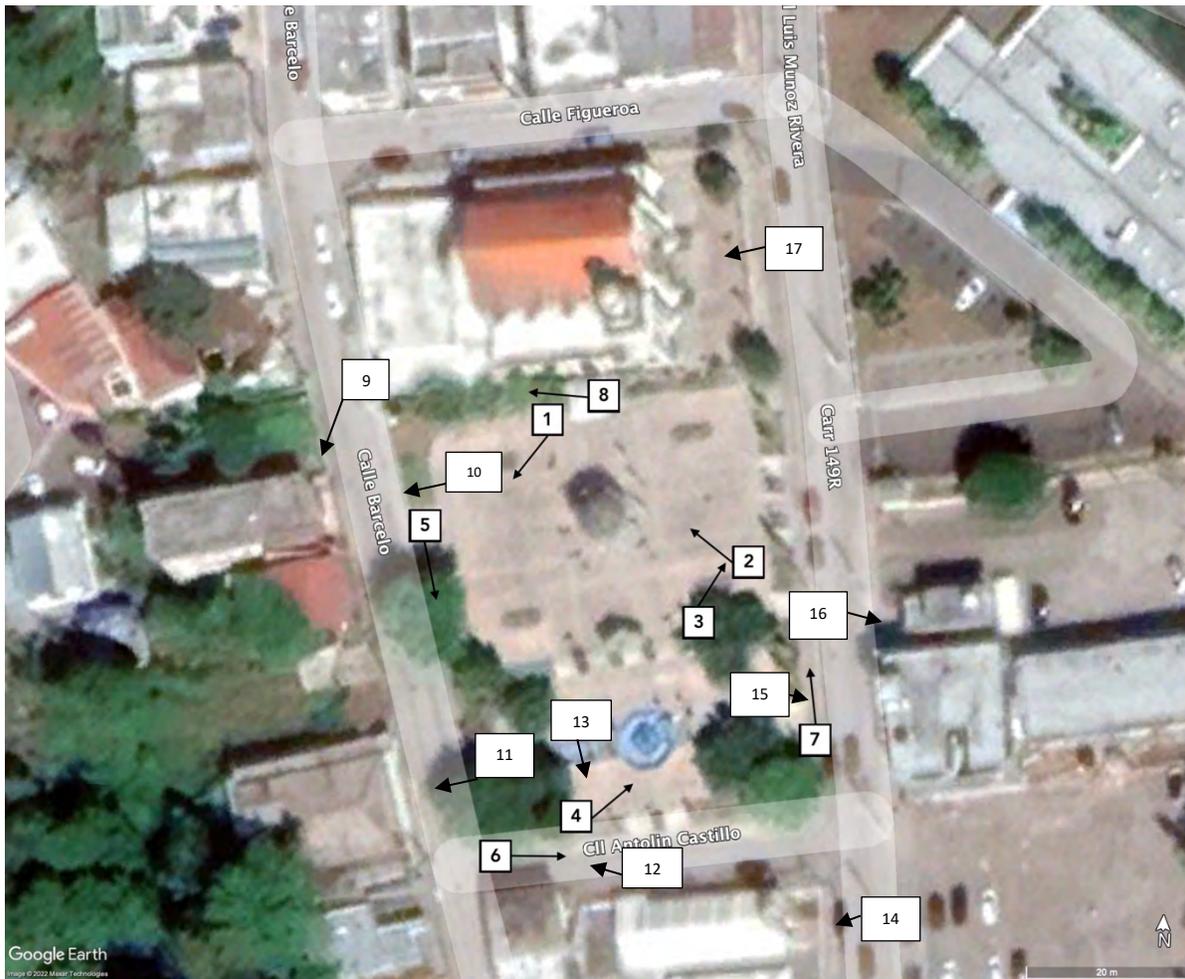
### Project (Parcel) Location with Previous Investigations and Recorded Historic Properties Within a Quarter-Mile Radius - USGS Topographic Map



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



### Photograph Key



Source: 2022 Aerial Photograph, Google Earth Pro 7.3.4.8642



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 1

Description: West Section (#294-082-011-04) of town square.

Date: 12/11/22

Direction: SW



Photo #: 2

Description: Upper East Section (#294-082-011-02) of town square.

Date: 12/11/22

Direction: NW

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 3

Description: Center-East Section (#294-082-011-03) of town square.

Date: 12/11/22

Direction: NE



Photo #: 4

Description: South Section (#294-082-012-01) of town square.

Date: 12/11/22

Direction: NE

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 5

Description: Barceló Street sidewalk, west of town square.

Date: 12/11/22

Direction: SE



Photo #: 6

Description: Antolin Castro Street sidewalk, south of town square.

Date: 12/11/22

Direction: E

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 7

Description: Luis Muñoz Rivera Street sidewalk, east of town square.

Date: 12/11/22

Direction: NW



Photo #: 8

Description: Gate dividing churchyard from town square.

Date: 12/11/22

Direction: NW



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 9

Description: View from the Plaza to building on Barcelo Street

Date: 05/11/22

Direction: W



Photo #: 10

Description: View from Barcelo Street to Doctor José Rivera Ayala Offices.

Date: 12/11/22

Direction: W



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 11

Description: View from the Plaza overlooks the building undergoing rehabilitation on Barcelo Street, slated to become an Elderly Center.

Date: 05/11/22

Direction: W



Photo #: 12

Description: View from Antolin Castillo Street overlooks the building undergoing rehabilitation on Barcelo Street, slated to become an Elderly Center.

Date: 05/11/22

Direction: SW



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 13

**Description:** View from the south side of the Plaza includes buildings along Antolin Castillo Street. On the right side is Pizzeria Kings Cream, and you can also see the right facade of Iglesia Evangelica Unidad de PR.

Date: 05/11/22

Direction: W



Photo #: 14

**Description:** Iglesia Evangelica Unida de PR, Front Elevation Facing East

Date: 12/11/22

Direction: W



Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 15

Description: Villalba Town Hall, East Side of the Plaza

Date: 12/11/22

Direction: E



Photo #: 16

Description: Villalba Fire Station, East Side of the Plaza

Date: 12/11/22

Direction: E

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

CITY REVITALIZATION PROGRAM (CITY-REV)

Section 106 NHPA Effect Determination



GOVERNMENT OF PUERTO RICO  
DEPARTMENT OF HOUSING

Subrecipient: Municipality of Villalba

Project Name: Mejoras a la Plaza Pública José Ramón Figueroa Rivera

Project ID: PR-CRP-000127



Photo #: 17

Description Villalba's catholic parish façade (actual). View from Luis Muñoz Street to the church.

Date: 12/11/22

Direction: E

# JOSE RAMON FIGUEROA RIVERA

## PLAZA RENOVATION

### VILLALBA, PR

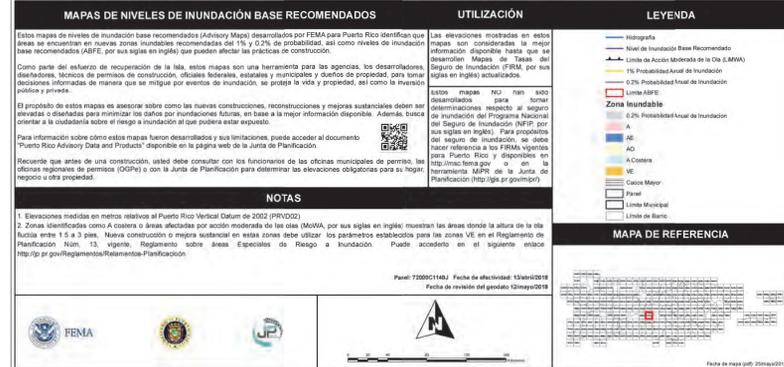
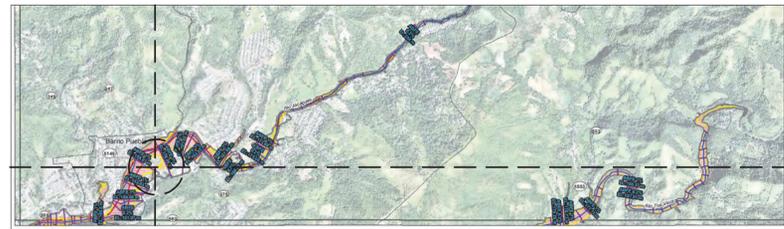
#### CONSTRUCTION PHASE



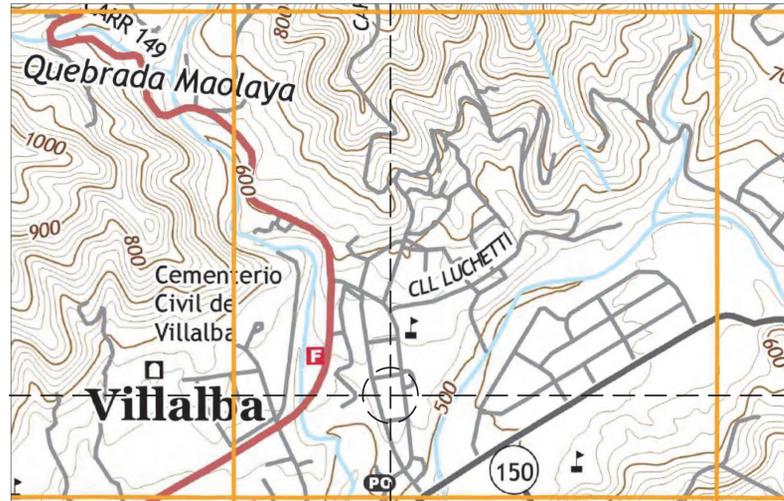
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**CALIFICATION PLAN**  
NOT TO SCALE



**FLOOD HAZARD MAP**  
NOT TO SCALE



**TOPOGRAPHY PLAN**  
NOT TO SCALE

### PROJECT INFO

CADASTRAL NUMBER: 294-082-012-01  
 COORDINATES: X= 193743.8829, Y= 232634.7828  
 PROJECT AREA: 1.988.13 SQM / 21,400 SQF

### INDEX DRAWINGS

#### TITLE & PROJECT INFORMATION

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- G-100 GENERAL NOTES
- G-101 GENERAL COMPLIANCE GUIDELINES

- M-1 EXISTING AND TOPOGRAPHIC SURVEY PLAN

#### CIVIL DRAWINGS

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- C-201 GEOMETRIC TABLES
- C-300 GRADING PLANS
- C-400 UTILITIES PLANS
- C-401 UTILITIES DETAILS
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#### LANDSCAPE DRAWINGS

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- EX-201 EXISTING SECTION PLAN
- EX-300 EXISTING BUSTS PLAN
- AS-100 PROPOSED PLAZA FLOOR PLAN
- AS-110 PROPOSED PLAZA ROOF PLAN
- AS-200 PROPOSED PLAZA SECTION PLANS
- AS-201 PROPOSED PLAZA ELEVATIONS
- A-100 ENLARGED PLAZA UPPER LEVEL FLOOR PLAN
- A-101 ENLARGED PLAZA LOWER LEVEL FLOOR PLAN
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- A-201 SITE SECTIONS
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CERTIFICACION  
 Yo, CARLOS J. QUINONES MAYS, INGENIERO LICENCIADO 18892, certifico que soy el profesional que diseño 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 Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion.

Reconozco que cualquier declaracion falsa o falsificacion de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mi, mis agentes o por otras personas o por esta persona con mi conocimiento, me hacen responsable de cualquier accion judicial y disciplinaria por la OIGPE y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminacion de la participacion en los procedimientos de certificacion profesional en la OIGPE.

**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
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REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

TITLE SHEET GENERAL INFORMATION & MAPS  
 SHEET TITLE

T-100  
 SHEET NO.

## GENERAL NOTES

- CONTRACTOR SHALL COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
- OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
- REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE DESIGNER FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
- SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO THE DESIGNER FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
- OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION
- COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
- MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
- PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
- MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH OWNER OR REPRESENTATIVE TO ENSURE SECURITY.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE DESIGNER.
- PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHES.
- COORDINATE AND PROVIDE BACKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS OR CEILINGS.
- WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.
- UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.

## FIRE DEPARTMENT NOTES

- PROVIDE AS PER CODES PORTABLE FIRE EXTINGUISHER TO COMPLY WITH TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR.
- PROVIDE EXIT SIGN WITH 6" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
- PROVIDE EMERGENCY LIGHTING AT FLOOR LEVEL TO COMPLY WITH BUILDING CODES.
- MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
- EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
- DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
- AS REQUIRED, DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
- EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL IN ANY HAZARDOUS AREA.
- INTERIOR WALL AND CEILING FINISHES FOR EXIT CORRIDOR SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING:
  - CLASS I, FLAME SPREAD 0-25, SMOKE DENSITY 150, FOR MATERIALS INSTALLED IN VERTICAL EXITS.
  - CLASS II, FLAME SPREAD 26-75, SMOKE DENSITY 300, FOR MATERIALS INSTALLED IN HORIZONTAL EXITS.
  - CLASS III, FLAME SPREAD 76-200, SMOKE DENSITY 450, FOR MATERIALS INSTALLED IN ANY OTHER LOCATION.
- DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
- PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS.

- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- WOOD BLOCKING SHALL BE FIRE TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- EXTEND OR MODIFY EXISTING FIRE/LIFE SAFETY SYSTEM AS REQUIRED TO PROVIDE AN APPROVED FIRE/ LIFE SAFETY SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
- EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF FLASHES PER MINUTE AS REQUIRED.
- EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
- AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

## REFLECTED CEILING NOTES

- DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL FORCE OF 20% OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE.
- WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHODS MAY BE EMPLOYED:
  - PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNNER AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORT POINTS 12 FEET ON CENTER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 4' FROM EACH WALL.
  - ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS; MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS.
  - PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL.
  - SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
- LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND SIMILAR CEILING ELEMENTS IN ACOUSTICAL UNITS, UNLESS OTHERWISE NOTED.
- FINISH HVAC DIFFUSERS, DRAPERY POCKETS, AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.

## POWER & COMMUNICATION NOTES

- PRIOR TO CORING SLAB, REVIEW LOCATIONS WITH THE DESIGNER AND COORDINATE LOCATIONS WITH OWNER.
- COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS.
- VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURER TO ENSURE PROPER FIT AND FUNCTION.
- VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT.
- GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
- PROVIDE LIGHT SWITCHING IN CONFORMANCE WITH TITLE 24 REQUIREMENTS. FOR ROOMS OR AREAS GREATER THAN 100 SQUARE FEET PROVIDE DOUBLE SWITCHES WITH EACH SWITCH CONTROLLING 50% OF LAMPS PER FIXTURE.
- MOUNT STANDARD WALL OUTLETS, SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY TITLE 24 AND ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT +3'-2" ABOVE FINISHED FLOOR.
- INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.

- INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
- PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED.
- IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.

## FINISH NOTES

- ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
- PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVER, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

## DISABLED ACCESS NOTES

- IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMPS, PASSENGER ELEVATORS OR SPECIAL ACCESS LIFTS.
  - FLOOR SURFACES SHALL BE SLIP-RESISTANT.
- EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.
- ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS WITH A SLOPE NO GREATER THAN 1:2
- LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. MOUNT DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE FLOOR FINISH AS INDICATED.
- CENTER HAND ACTIVATED DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE THE FLOOR.
- MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
- THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF NARROW FRAME DOORS.
- EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
- WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
- IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
- THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
- FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
- TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

- CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
- SANITARY FACILITIES LOCATED ON AN ACCESSIBLE FLOOR OF A BUILDING SHALL BE ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.
- ENTRY TO SANITARY FACILITIES:
  - 44" CLEAR AISLES OR CORRIDORS WHERE OCCUPANT LOAD IS 10 OR MORE.
  - DOORWAYS TO HAVE A 32" CLEAR OPENING.
  - ON APPROACH SIDE, PROVIDE A 60" CLEAR LEVEL SPACE WHEN DOOR SWINGS TOWARD APPROACH AND 44" SPACE WHEN DOOR SWINGS AWAY FROM APPROACH.
- TOILET ROOM ACCESSORIES AS INDICATED ON PLANS:
  - MOUNT BOTTOM EDGE OF MIRRORS NO HIGHER THAN 40" FROM THE FLOOR.
  - MOUNT TOILET TISSUE DISPENSERS WITHIN 12" FROM THE FRONT EDGE OF THE TOILET SEAT.
  - MOUNT DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS NO HIGHER THAN 40" FROM THE FLOOR.
- SINGLE ACCOMMODATION TOILET FACILITY
  - WATER CLOSET TO HAVE A 28" CLEARANCE FROM A FIXTURE AND 32" FROM A WALL.
  - MINIMUM CLEAR SPACE IN FRONT OF WATER CLOSET TO BE 48".
  - A SPACE 36" X 48" IS PERMITTED IN FRONT OF EXISTING WATER CLOSET ACCESSIBLE TO THE HANDICAPPED.
- THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) SHALL BE BETWEEN 17" AND 19".
- MOUNT FLUSH VALVE CONTROL NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST SEPARATION FROM ADJACENT WALL OR OTHER SURFACE.
- PROVIDE GRAB BARS ON EACH SIDE, OR ONE SIDE AND BACK OF WATER CLOSET.
  - GRAB BARS TO BE 33" ABOVE AND PARALLEL TO THE FLOOR.
  - SIDE BARS TO BE 42" LONG AND PROJECT 24" IN FRONT OF WATER CLOSET STOOL. GRAB BAR AT BACK TO BE 36" LONG.
  - DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
  - PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
  - GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
  - GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
  - GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
  - EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO
- MOUNT LAVATORIES WITH A MINIMUM CLEARANCE OF 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON. PROVIDE KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH WITH 8" MINIMUM WIDTH, AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. LEVER OPERATED, PUSH TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
- INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES.
- THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES. PERMIT A FORWARD APPROACH.



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PROFESSIONAL CONSULTANT

CERTIFICACION  
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RIVERA PLAZA RENOVATION  
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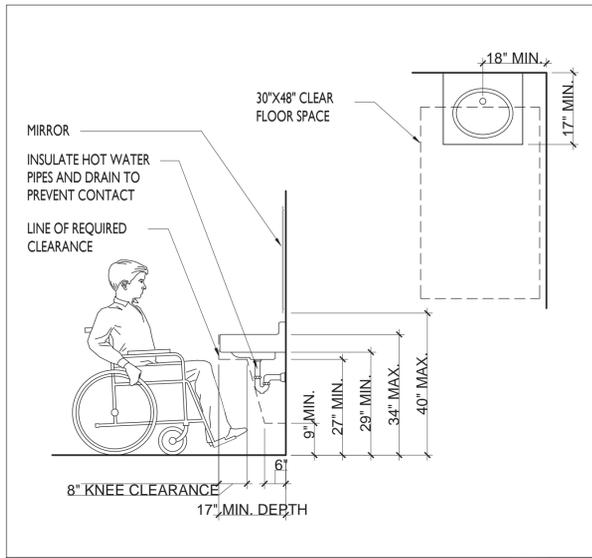
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OWNER  
48-2022 PROJECT NUMBER  
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CJQ DRAWN / APPROVED

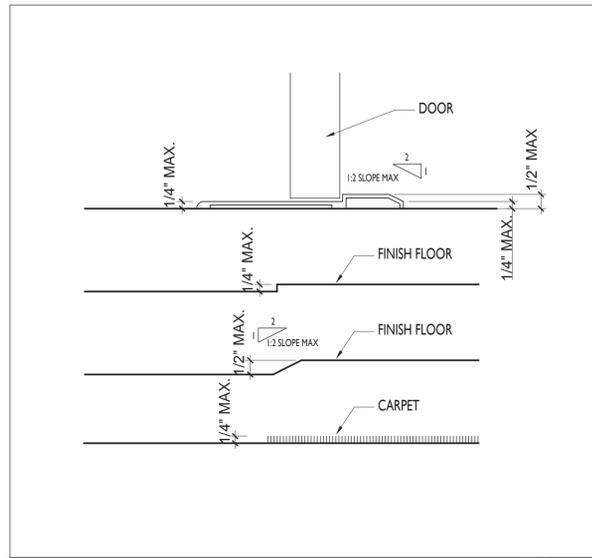
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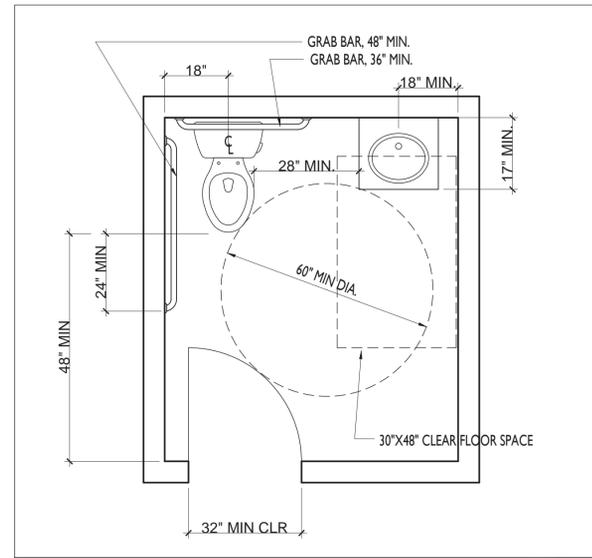
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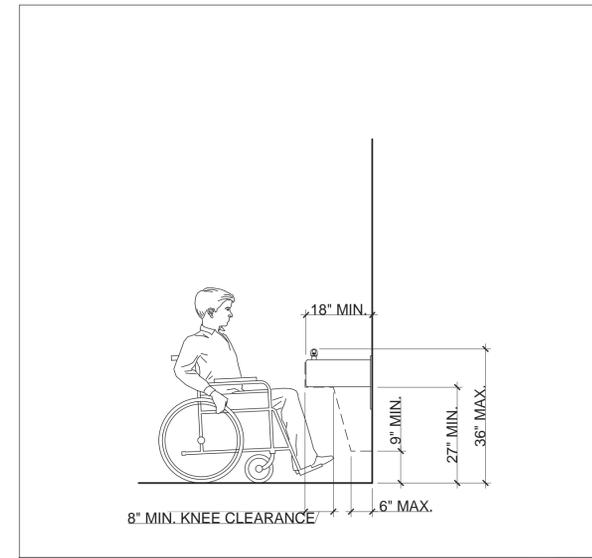
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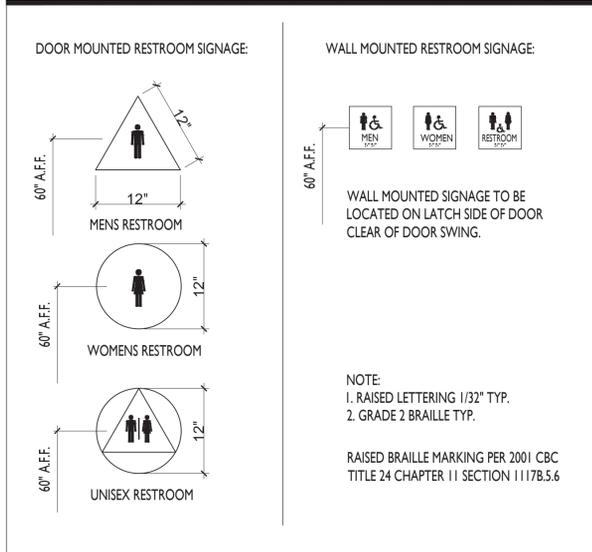
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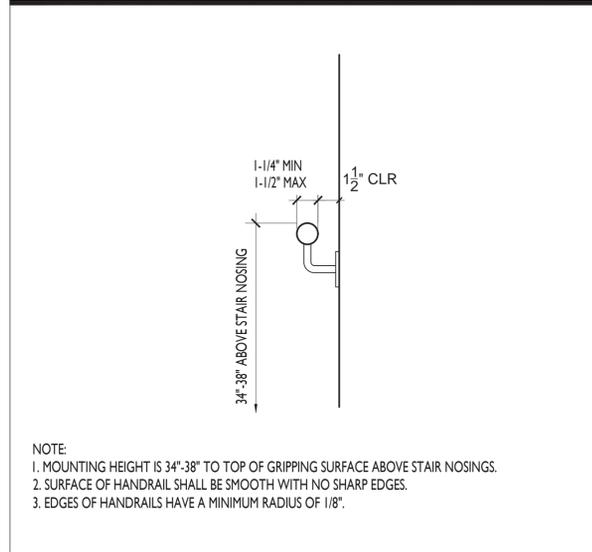
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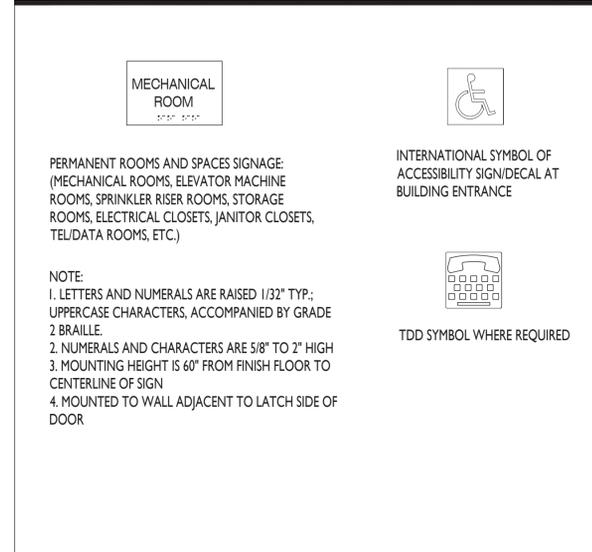
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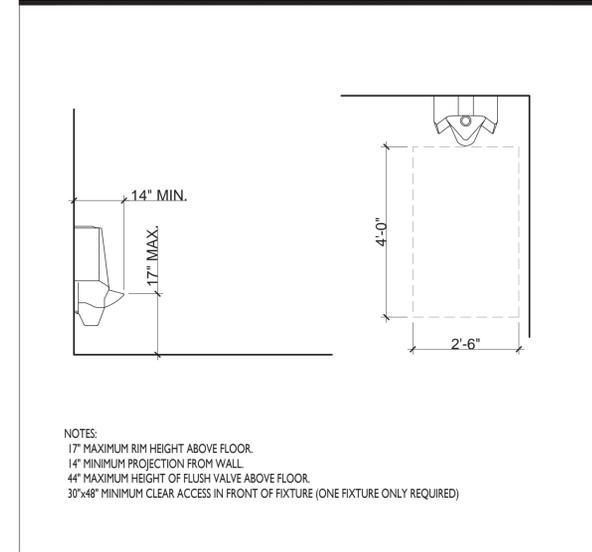
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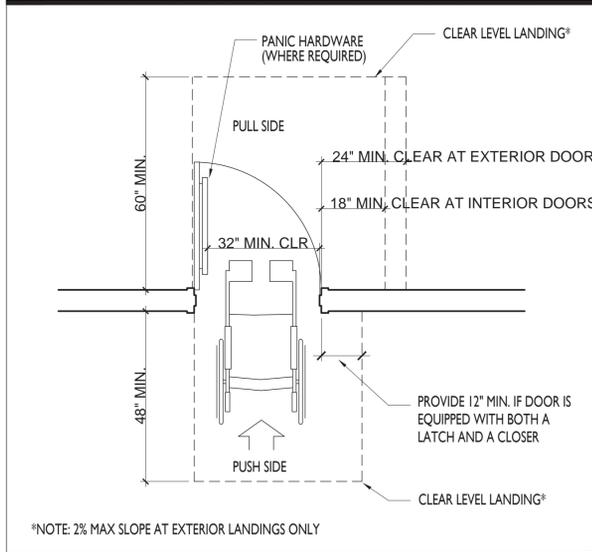
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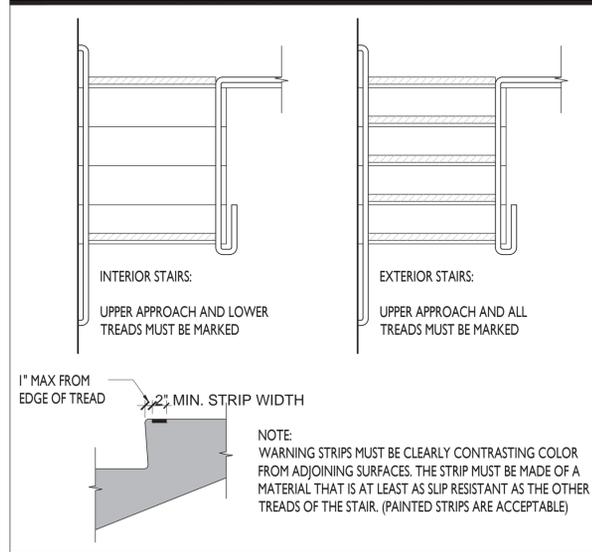
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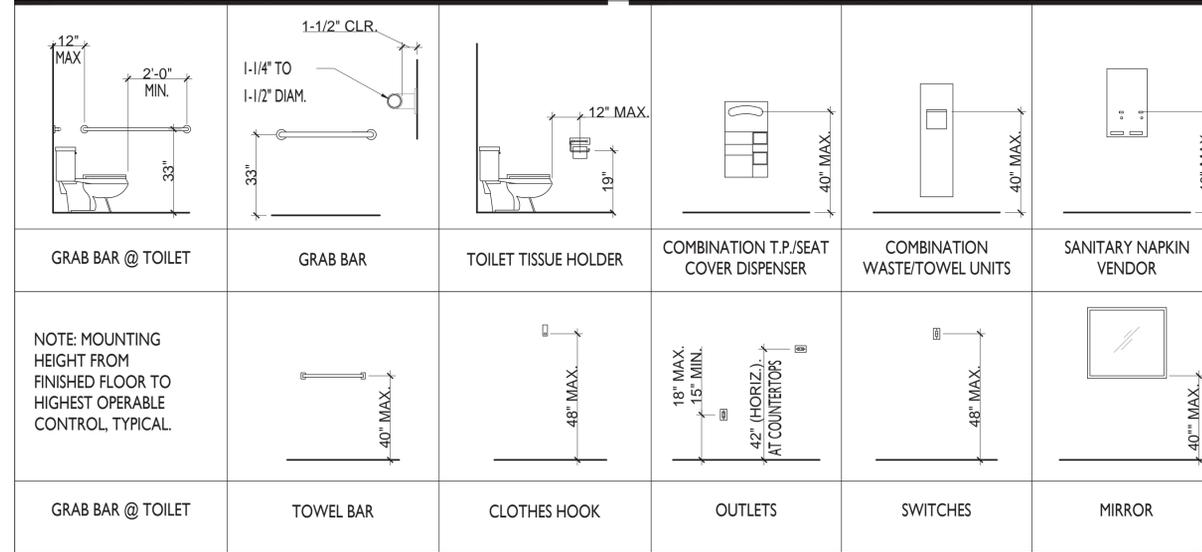
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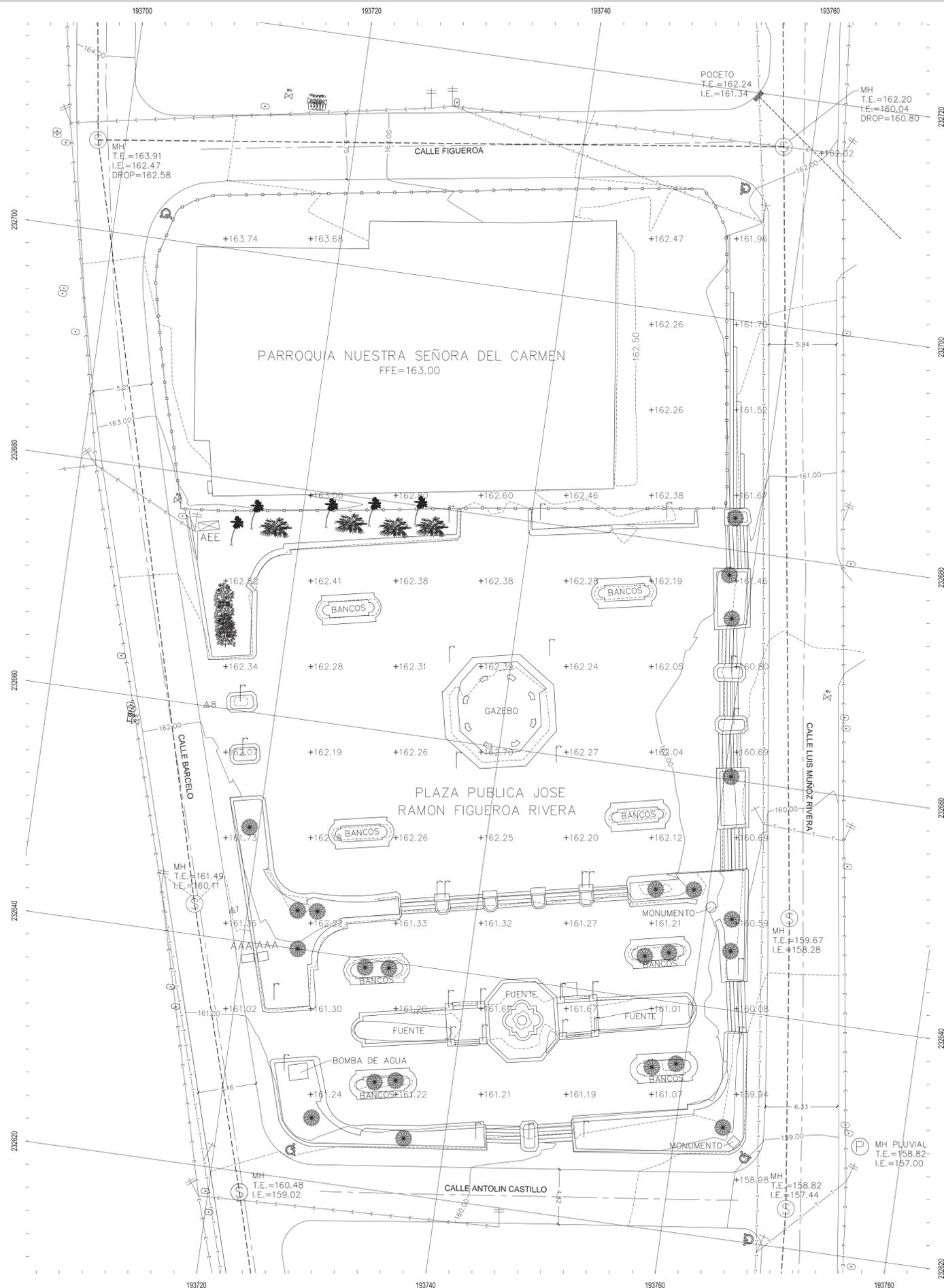
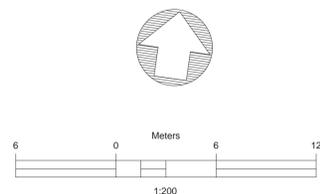
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**VISUALLY IMPAIRED WARNING STRIPING**  
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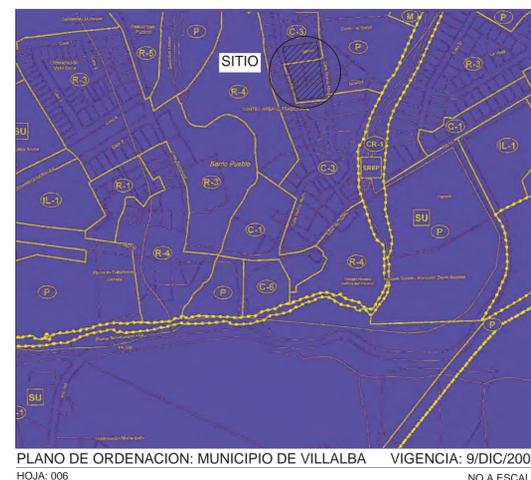
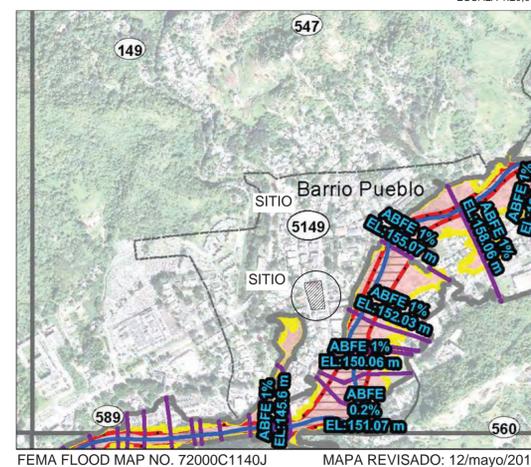
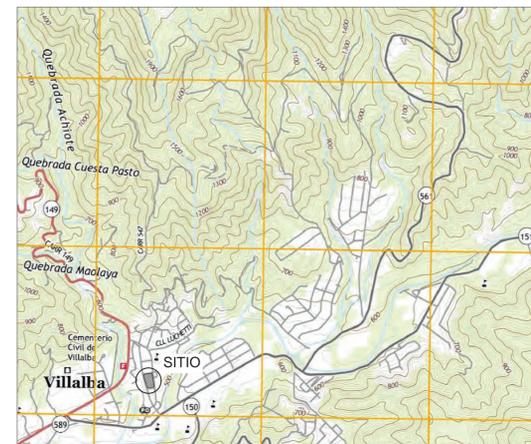


**RESTROOM ACCESSORY MOUNTING HEIGHT**  
 SCALE: N.T.S.



- LEYENDA:**
- LINEA DE CENTRO DE CALLE
  - VERJA EXISTENTE
  - LINEA ELECTRICA PRIMARIA Y/O SECUNDARIA
  - LINEA DE TELECOMUNICACIONES
  - TUBERIA SANITARIA DE 8" Ø
  - TUBERIA PLUVIAL DE 12" Ø
  - ⊕ POSTE CON LINEAS ELECT. PRIM. Y/O SEC.
  - ⊕ POSTE DE TELECOMUNICACIONES
  - ⊕ POSTE DE ALUMBRADO
  - ⊕ CONTADOR DE AGUA
  - ⊕ VALVULA
  - ⊕ MANHOLE SANITARIO
  - ⊕ PUNTO DE CONTROL
  - ⊕ ARBOL EXISTENTE

Puntos de Control				
Punto #	Norte	Este	Elevación	Descripción
1	232642.520	193718.693	161.56	STA.PK
8	232660.053	193713.939	162.24	STA.PK



**NOTAS:**

1. EL CONTROL HORIZONTAL HA SIDO REFERENCIADO AL SISTEMA DE COORDENADAS PUERTO RICO NAD\_83(2011)(EPOCH:2010.0000)".
2. TODAS LAS DISTANCIAS ESTAN EXPRESADAS EN METROS, O DE OTRA FORMA ESPECIFICADA.
3. LA INFORMACION ILUSTRADA EN ESTE PLANO REPRESENTA EL RESULTADO DE LA MENSURA REALIZADA EN LA FECHA INDICADA Y SOLO PUEDE SER CONSIDERADA COMO UNA INDICACION DE LAS CONDICIONES GENERALES EXISTENTES EN ESE MOMENTO.
4. EL INTERVALO DE LAS LINEAS DE CONTORNO ES DE 0.50 METRO.



COMPANIA

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- SERVICIOS
- Construcción en General (Remodelaciones)
  - Arquitectura y Diseño Paisajista (Mantenimiento de Exteriores)
  - Agrimensura (Mensuras, Topografías)
  - Gestoría de Permisos



PROYECTO

**MENSURA Y TOPOGRAFIA  
PLAZA DE VILLALBA**

PROPIEDAD DE

**MUNICIPIO DE VILLALBA**

UBICACION

**CALLE BARCELO  
VILLALBA, PUERTO RICO  
00766**

Num.	Descripción	Fecha

Título

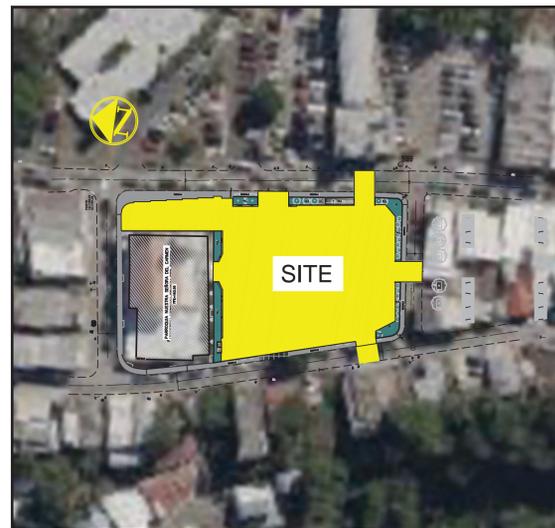
**PLANO DE MENSURA Y TOPOGRAFIA**

Fecha: October 22  
Dibujado por: GMT  
Verificado por: RMT  
Filename: /municipio plaza.dwg  
ID de Hoja: M-1  
Num. de Hoja: 1/1

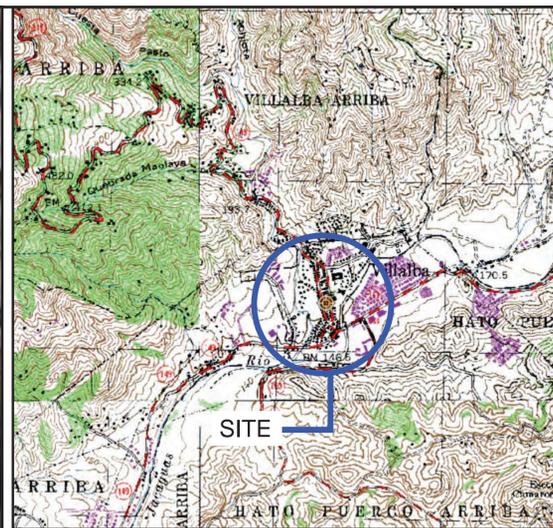
Escala: 1:350

# CIVIL PLANS SET FOR JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION

CALLE BARCELO VILLALBA , PUERTO RICO



**SITE PLAN:**  
SCALE: 1:1,000



**QUADRANGLE MAP:**  
SCALE: 1:20,000  
Coord. Nad83 X = 193742.5195 Y =232664.6943

### GENERAL NOTES

1. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE CONSTRUCTION DRAWINGS, SPECIFICATIONS OR ANY REFERRED STANDARD, THE MORE RESTRICTIVE PROVISION SHALL APPLY.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEFORE ORDERING ANY MATERIAL. DIFFERENCES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF ENGINEER AND NO ACTION SHALL BE TAKEN UNTIL APPROVED BY ENGINEER.
3. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS, IN WHOLE OR IN PART, OF DRAWINGS PREPARED BY ENGINEER. SHOP DRAWINGS SHALL BE PREPARED ENTIRELY BY MANUFACTURER, FABRICATOR OR INSTALLER BASED ON INFORMATION WITHIN THESE DRAWINGS.
4. ALL DIMENSIONS PERTAINING TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING ANY WORK OR FABRICATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING FEATURES WHICH ARE NOT PART OF THE CONSTRUCTION. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL RESTORE OR REPLACE THE DAMAGED FEATURES TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE AT NO COST.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

### CIVIL PLANS INDEX OF DRAWINGS

- C-100 TITLE SHEET & INDEX
- C-200 GEOMETRIC PLAN
- C-201 GEOMETRIC TABLES
- C-300 GRADING PLAN
- C-400 UTILITIES PLAN
- C-401 UTILITIES DETAILS
- C-500 CIVIL DETAILS



NOTE: All designs, drawings and specifications prepared by VISURA CSP and its consultants are rightly owned by VISURA CSP and can not be copy or distributed by other parties other than the designers. VISURA CSP have all copy rights of the project. All unauthorized copies are illegal and delinquents will be prosecuted under a court of law.  
CERTIFICATE



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PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
C.JQ DRAWN / APPROVED



REVISION	CONSTRUCTION PHASE	PROJECT PHASE

TITLE SHEET & INDEX SHEET TITLE

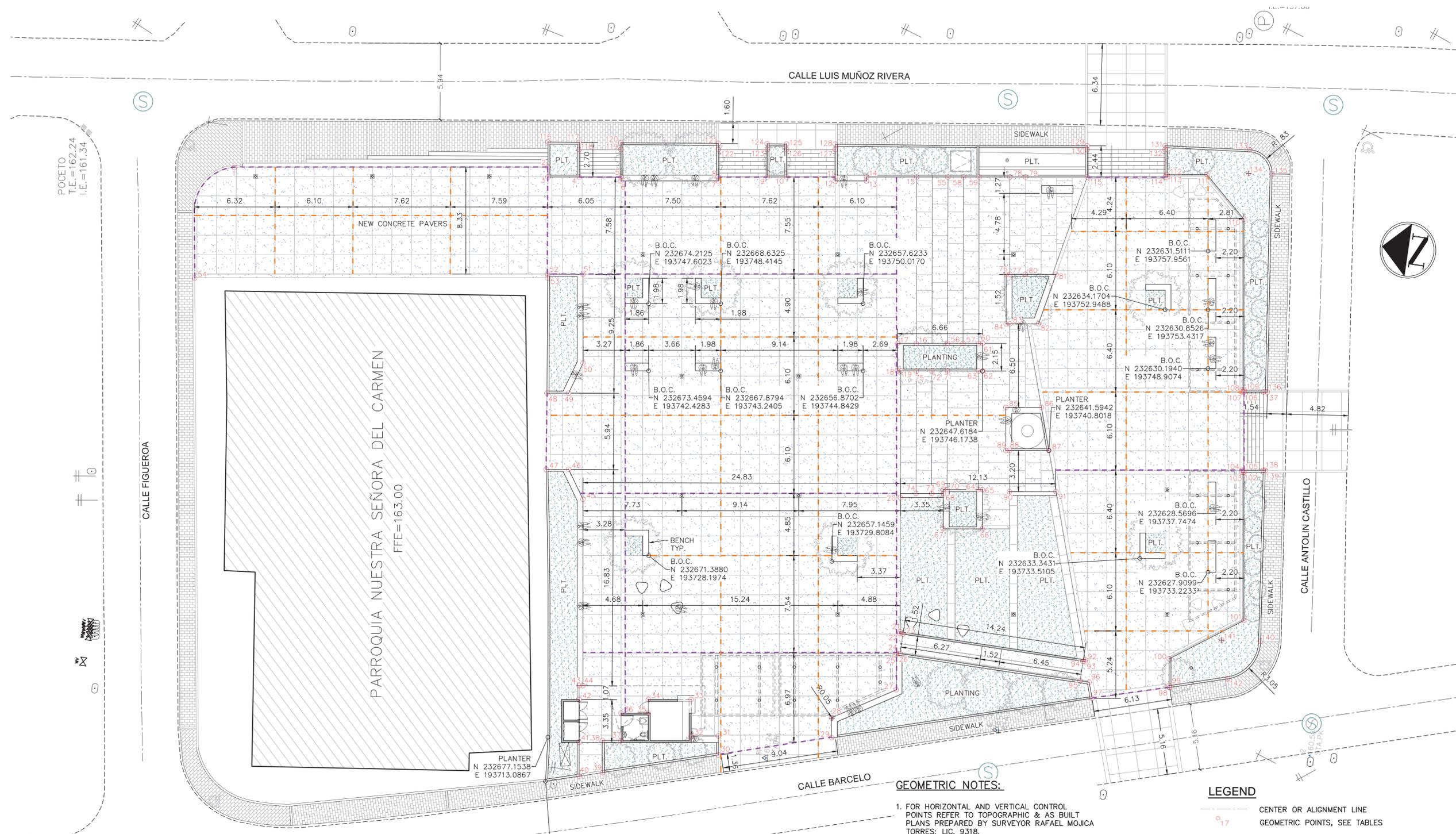
C-100 SHEET NO.



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POCETO  
 T.E.=162.24  
 I.E.=161.34

CALLE FIGUEROA

PARROQUIA NUESTRA SEÑORA DEL CARMEN  
 FFE=163.00

CALLE LUIS MUÑOZ RIVERA

CALLE BARCELO

CALLE ANTONIN CASTILLO

SITE IMPROVEMENTS - QUANTITY TABLE		
DESCRIPTION	UNIT	QUANTITY
CONCRETE FLOOR SLAB	SQ.MT.	2,150

NOTE: REFER TO SHEET C-500 FOR CIVIL DETAILS

### GEOMETRIC PLAN

SCALE: 1:150

#### GEOMETRIC NOTES:

- FOR HORIZONTAL AND VERTICAL CONTROL POINTS REFER TO TOPOGRAPHIC & AS BUILT PLANS PREPARED BY SURVEYOR RAFAEL MOJICA TORRES; LIC. 9318.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BEGIN ANY WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL FIELD CONDITIONS IMMEDIATELY TO THE OWNER.
- ALL DISTANCES IN CIVIL PLAN ARE EXPRESS IN METERS UNLESS OTHERWISE SPECIFIED.
- SEE GEOMETRIC POINTS COORDINATES TABLES ON SHEETS C-201.
- CONTRACTOR SHALL REVIEW PLANS WITH COORDINATES CONTROLS AND SHALL REVIEW DIMENSIONS AND SPACE.
- CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
- FOR CONCRETE FLOOR SLAB & JOINT DETAILS REFER TO C-500.

#### LEGEND

- CENTER OR ALIGNMENT LINE
- GEOMETRIC POINTS, SEE TABLES
- HANDICAP
- LENGTH
- RADIUS
- PLANTING
- PAVEMENT
- SPACES
- SIDEWALK
- WALL OUTER CORNER
- BENCH OUTER CORNER
- EXPANSION JOINT
- CONSTRUCTION JOINT
- PROP. CONC. FLOOR SLAB REFER TO C-500 FOR DETAILS

# JOSE RAMON FIGUEROA RIVERA

## PLAZA RENOVATION

CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 24, 2024 PRINTING DATE  
 C.J.Q. DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

GEOMETRIC PLAN  
 SHEET TITLE

C-200 SHEET NO.



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CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
1	24.52	S8° 22' 42"E	232707.8016	193753.4217
2	0.78	S81° 43' 06"W	232683.5389	193756.9951
3	2.44	S8° 16' 54"E	232683.4265	193756.2228
4	3.27	S8° 16' 54"E	232681.0134	193756.5741
5	0.30	S81° 43' 06"W	232677.7765	193757.0452
6	7.62	S8° 16' 54"E	232677.7326	193756.7436
7	0.30	N81° 43' 06"E	232670.1920	193757.8412
8	3.81	S8° 16' 54"E	232670.2359	193758.1428
9	1.52	S8° 16' 54"E	232666.4652	193758.6916
10	3.81	S8° 16' 54"E	232664.9571	193758.9112
11	0.30	S81° 43' 06"W	232661.1864	193759.4600
12	2.44	S8° 16' 54"E	232661.1425	193759.1584
13	0.30	N81° 43' 06"E	232658.7295	193759.5096
14	3.92	S8° 16' 54"E	232658.7734	193759.8112
15	12.94	S81° 51' 04"W	232654.8897	193760.3765
16	1.48	N8° 43' 06"W	232653.0551	193747.5645
17	2.13	S81° 43' 06"W	232654.5131	193747.3409
18	0.25	S8° 01' 59"E	232654.2059	193745.2307
19	9.86	S81° 50' 41"W	232653.9544	193745.2662
20	10.44	S81° 51' 22"W	232652.5560	193735.5079

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
21	0.15	N89° 41' 39"W	232651.0767	193725.1704
22	0.25	S0° 18' 21"W	232651.0775	193725.0180
23	1.52	N89° 41' 39"W	232650.8283	193725.0167
24	0.31	N0° 18' 21"E	232650.8364	193723.4927
25	0.15	S81° 43' 06"W	232651.1447	193723.4944
26	2.72	S81° 43' 06"W	232651.1225	193723.3418
27	5.50	N31° 36' 57"W	232650.7305	193720.6490
28	1.55	S81° 22' 29"W	232655.4168	193717.7641
29	8.96	N16° 55' 36"W	232655.1850	193716.2357
30	1.48	N81° 43' 06"E	232663.7564	193713.6272
31	2.13	N8° 16' 54"W	232663.9698	193715.0928
32	2.84	N81° 43' 06"E	232666.0811	193714.7854
33	3.35	N8° 16' 54"W	232666.4909	193717.6006
34	1.07	S81° 43' 06"W	232669.8087	193717.1176
35	2.13	N8° 16' 54"W	232669.6551	193716.0620
36	2.13	S81° 43' 06"W	232671.7664	193715.7546
37	1.45	N8° 16' 54"W	232671.4591	193713.6433
38	2.50	S81° 43' 06"W	232672.8918	193713.4348
39	1.85	N16° 52' 43"W	232672.5322	193710.9645
40	2.62	N81° 43' 06"E	232674.3021	193710.4275

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA UPPER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
41	3.35	N81° 43' 06"E	232674.6796	193713.0205
42	1.07	N81° 43' 06"E	232675.1625	193716.3384
43	0.30	S8° 16' 54"E	232675.3162	193717.3940
44	14.51	N81° 43' 06"E	232675.0145	193717.4379
45	2.59	N55° 57' 42"E	232677.1042	193731.7944
46	1.76	N8° 16' 54"W	232678.5536	193733.9401
47	5.94	N82° 23' 47"E	232680.2941	193733.6868
48	1.69	S8° 16' 54"E	232681.0798	193739.5726
49	2.59	S72° 31' 29"E	232679.4072	193739.8161
50	6.91	N81° 41' 33"E	232678.6286	193742.2891
51	2.77	N7° 55' 23"W	232679.6267	193749.1243
52	0.30	S81° 43' 06"W	232682.3668	193748.7430
53	27.60	N8° 16' 54"W	232682.3229	193748.4414
54	5.25	N81° 16' 30"E	232709.6353	193744.4659

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA CONCRETE STEPS FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
55	12.95	S81° 51' 04"W	232652.4767	193760.7277
56	1.22	S8° 01' 00"E	232650.6413	193747.9101
57	12.95	N81° 51' 04"E	232649.4340	193748.0801
58	1.22	S8° 16' 54"E	232651.2702	193760.9034
59	12.95	S81° 51' 04"W	232650.0637	193761.0790
60	0.30	S8° 16' 52"E	232648.2275	193748.2557
61	2.15	S81° 46' 00"W	232647.9260	193748.2996
62	0.30	N8° 08' 49"W	232647.6184	193746.1738
63	9.24	S81° 51' 04"W	232647.9200	193746.1306
64	0.31	S8° 17' 02"E	232646.6109	193736.9885
65	3.05	S81° 43' 06"W	232646.3058	193737.0329
66	3.05	N8° 17' 02"W	232645.8667	193734.0166
67	2.74	N81° 43' 06"E	232648.8865	193733.5769
68	0.30	N81° 43' 06"E	232649.2818	193736.2925
69	0.30	S8° 17' 02"E	232649.3255	193736.5932
70	9.24	N81° 51' 04"E	232649.0239	193736.6371
71	1.22	N7° 54' 06"W	232650.3338	193745.7850
72	9.55	S81° 51' 04"W	232651.5414	193745.6174
73	1.22	N8° 16' 54"W	232650.1873	193736.1607
74	9.55	N81° 51' 04"E	232651.3938	193735.9851
75	1.65	N74° 36' 47"W	232652.7479	193745.4418

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA LOWER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
76	0.29	S8° 16' 54"E	232646.8767	193753.8913
77	7.57	N81° 43' 06"E	232646.5906	193753.9329
78	1.22	S8° 16' 54"E	232647.6813	193761.4257
79	7.57	S81° 43' 06"W	232646.4748	193761.6014
80	2.40	S8° 16' 54"E	232645.3842	193754.1085
81	4.10	N78° 35' 12"W	232643.0114	193754.4539
82	2.24	N8° 16' 54"W	232643.8223	193750.4370
83	0.29	N8° 16' 54"W	232646.0349	193750.1149
84	6.50	S81° 55' 28"W	232646.3210	193750.0733
85	2.78	S8° 18' 48"E	232645.4072	193743.6335
86	3.40	S71° 46' 59"W	232642.6583	193744.0352
87	3.08	N8° 18' 24"W	232641.5942	193740.8018
88	0.29	N8° 18' 25"W	232644.6372	193740.3575
89	3.22	S76° 32' 29"W	232644.9243	193740.3156
90	3.64	S8° 16' 54"E	232644.1760	193737.1888
91	13.29	S71° 47' 48"W	232640.5782	193737.7124
92	0.15	N89° 41' 39"W	232636.4281	193725.0922
93	0.16	N0° 18' 21"E	232636.4289	193724.9398
94	1.52	N89° 41' 39"W	232636.5864	193724.9407
95	0.72	S0° 18' 21"W	232636.5946	193723.4167

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA LOWER FLOOR LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
96	1.27	S71° 47' 48"W	232635.8758	193723.4129
97	6.11	S16° 08' 31"E	232635.4789	193722.2058
98	0.15	N72° 58' 45"E	232629.6114	193723.9040
99	2.08	N81° 43' 06"E	232629.6560	193724.0495
100	6.57	S35° 16' 46"E	232629.9563	193726.1127
101	11.53	N81° 43' 06"E	232624.5905	193729.9089
102	0.15	N8° 16' 54"W	232626.2513	193741.3190
103	0.15	N81° 43' 06"E	232626.4021	193741.2970
104	0.15	S8° 16' 54"E	232626.4241	193741.4478
105	6.10	N81° 43' 06"E	232626.2733	193741.4698
106	0.15	N8° 16' 54"W	232627.1513	193747.5022
107	0.15	N81° 43' 06"E	232627.3021	193747.4803
108	0.15	S8° 16' 54"E	232627.3241	193747.6311
109	13.29	N81° 43' 06"E	232627.1733	193747.6530
110	4.52	N41° 55' 00"E	232629.0878	193760.8063
111	3.11	N8° 16' 54"W	232632.4538	193763.8281
112	0.18	S81° 43' 06"W	232635.5347	193763.3797
113	0.15	N8° 16' 54"W	232635.5082	193763.1976
114	6.10	N8° 16' 54"W	232635.6590	193763.1757
115	0.65	N39° 54' 37"W	232641.6914	193762.2976

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA SIDEWALK LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
116	2.44	S7° 50' 38"E	232683.8174	193758.9086
117	0.56	S81° 43' 06"W	232681.4016	193759.2414
118	3.27	S8° 16' 54"E	232681.3207	193758.6854
119	0.54	N81° 43' 06"E	232678.0838	193759.1566
120	7.62	S7° 50' 38"E	232678.1611	193759.6879
121	0.48	S81° 43' 06"W	232670.6122	193760.7278
122	3.81	S8° 16' 54"E	232670.5433	193760.2541
123	0.45	N81° 43' 06"E	232666.7725	193760.8030
124	1.52	S7° 50' 38"E	232666.8373	193761.2479
125	0.44	S81° 43' 06"W	232665.3275	193761.4559
126	3.81	S8° 16' 54"E	232665.2644	193761.0225
127	0.41	N81° 43' 06"E	232661.4937	193761.5714
128	19.70	S7° 58' 51"E	232661.5525	193761.9753
129	0.30	S81° 43' 06"W	232642.0427	193764.7106
130	6.10	S8° 16' 54"E	232641.9987	193764.4090
132	6.62	S5° 27' 25"E	232636.0102	193765.5886
131	0.30	N81° 43' 06"E	232635.9663	193765.2870
133	1.83	S84° 32' 35"W	232629.4161	193766.2186
134	1.83	S7° 03' 17"E	232629.2422	193764.3981
135	16.99	S82° 56' 43"W	232627.4272	193764.6227

CONCRETE FLOOR SLAB GEOMETRIC TABLE PLAZA VILLALBA SIDEWALK LIMIT				
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E
136	0.31	N8° 16' 54"W	232625.3411	193747.7657
137	6.10	S81° 43' 06"W	232625.6432	193747.7217
138	0.14	S8° 27' 10"E	232624.7652	193741.6893
139	13.30	S83° 16' 04"W	232624.6294	193741.7095
140	3.05	N6° 43' 56"W	232623.0705	193728.5026
141	3.05	S73° 14' 21"W	232626.0974	193728.1453
142	0.53	N77° 59' 06"W	232625.2185	193725.2268

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 OWNER  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 PRINTING DATE  
 C/JQ  
 DRAWN / APPROVED



REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

GEOMETRIC TABLES  
 SHEET TITLE

C-201  
 SHEET NO.

# JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION

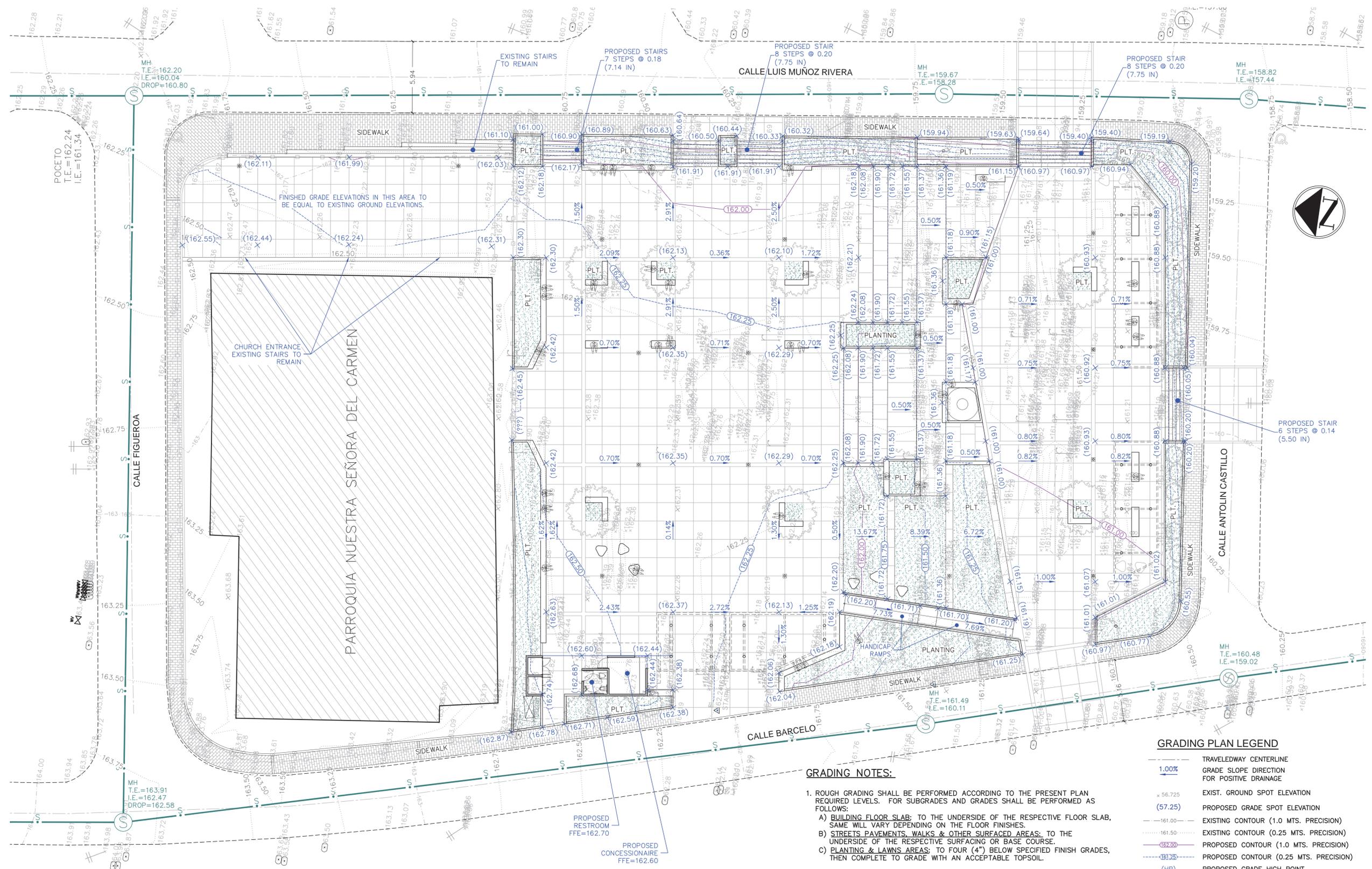
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
 JANUARY 24, 2024  
 C/JQ

OWNER  
 PROJECT NUMBER  
 PRINTING DATE  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

GRADING PLAN  
 SHEET TITLE  
 C-300  
 SHEET NO.



**GRADING PLAN**  
 SCALE: 1:150

**GRADING NOTES:**

- ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. FOR SUBGRADES AND GRADES SHALL BE PERFORMED AS FOLLOWS:
  - BUILDING FLOOR SLAB:** TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.
  - STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS:** TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.
  - PLANTING & LAWNS AREAS:** TO FOUR (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH AN ACCEPTABLE TOPSOIL.
- EMBANKMENT SLOPES STEEPER THAN 4:1 (H:V) SHALL BE PROTECTED FROM RUNOFF AND EROSION BY AN APPROPRIATED TYPE OF VEGETATION COVER.
- CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
- REFER TO C-301 FOR GRADING SECTIONS.
- EARTHWORK VALUES** (VOLUME WERE OBTAINED COMPARING PROPOSED FINISHED GRADE ELEVATION VS. EXISTING GROUND.)
  - CUT = 401 CU.MTS.
  - FILL = 90 CU.MTS.
  - NET = 311 CU.MTS. (CUT TO WASTE)

**GRADING PLAN LEGEND**

	TRAVELEDWAY CENTERLINE GRADE SLOPE DIRECTION FOR POSITIVE DRAINAGE
	EXIST. GROUND SPOT ELEVATION
	PROPOSED GRADE SPOT ELEVATION
	EXISTING CONTOUR (1.0 MTS. PRECISION)
	EXISTING CONTOUR (0.25 MTS. PRECISION)
	PROPOSED CONTOUR (1.0 MTS. PRECISION)
	PROPOSED CONTOUR (0.25 MTS. PRECISION)
	PROPOSED GRADE HIGH POINT
	PROPOSED GRADE LOW POINT
	FINISHED FLOOR ELEVATION
	TOE OF SLOPE
	FILL EARTH SLOPE, SLOPE AS INDICATED ON PLANS
	CUT EARTH SLOPE, SLOPE AS INDICATED ON PLANS
	PROPOSED INLET STRUCTURE
	PLANTING
	SIDEWALK



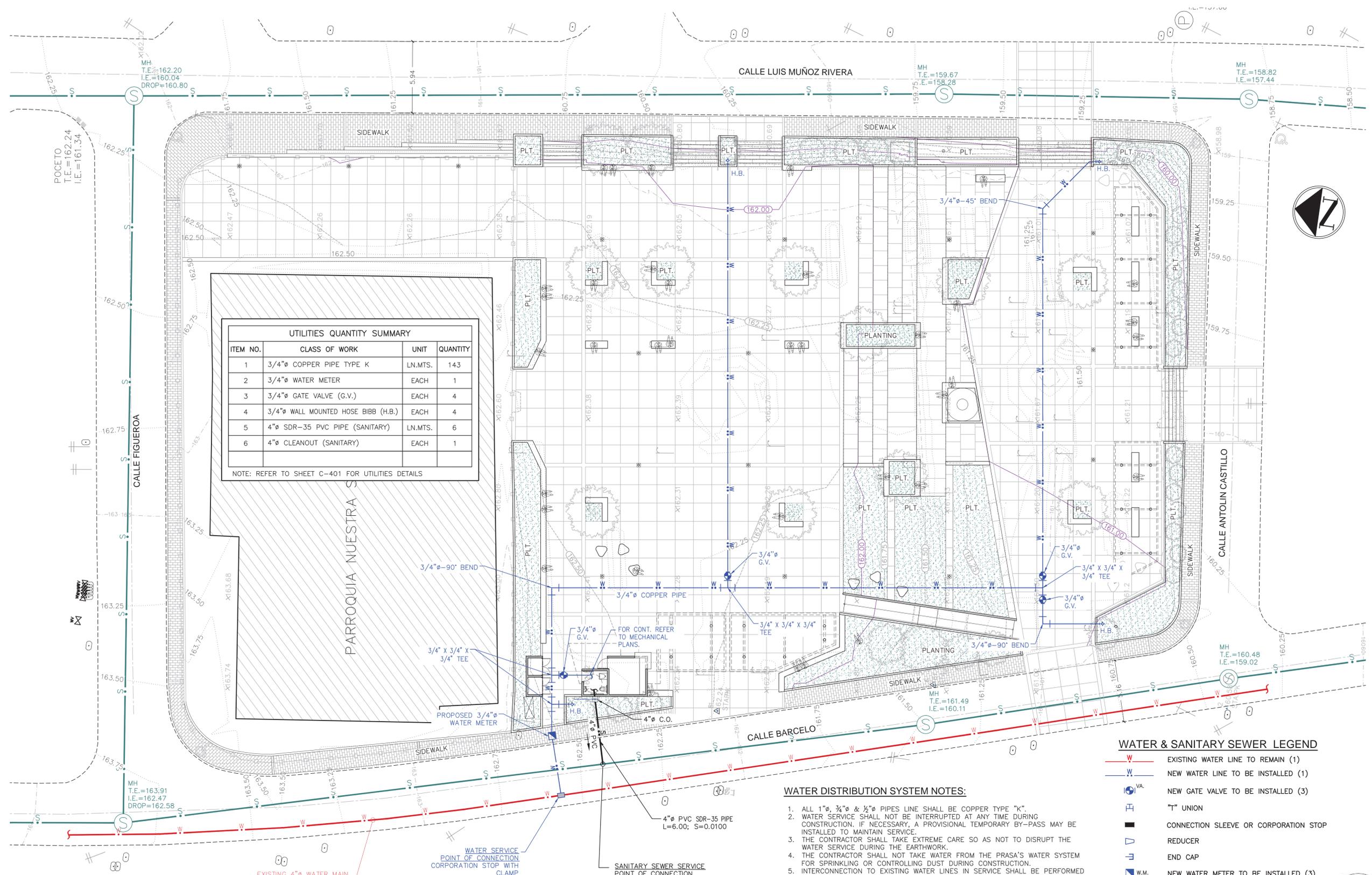
**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
 JANUARY 24, 2024  
 C.J.Q.

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

UTILITIES PLAN  
 SHEET TITLE

C-400  
 SHEET NO.



UTILITIES QUANTITY SUMMARY			
ITEM NO.	CLASS OF WORK	UNIT	QUANTITY
1	3/4" COPPER PIPE TYPE K	LN.MTS.	143
2	3/4" WATER METER	EACH	1
3	3/4" GATE VALVE (G.V.)	EACH	4
4	3/4" WALL MOUNTED HOSE BIBB (H.B.)	EACH	4
5	4" SDR-35 PVC PIPE (SANITARY)	LN.MTS.	6
6	4" CLEANOUT (SANITARY)	EACH	1

NOTE: REFER TO SHEET C-401 FOR UTILITIES DETAILS

**WATER & SANITARY SEWER LEGEND**

- EXISTING WATER LINE TO REMAIN (1)
- NEW WATER LINE TO BE INSTALLED (1)
- NEW GATE VALVE TO BE INSTALLED (3)
- "T" UNION
- CONNECTION SLEEVE OR CORPORATION STOP
- REDUCER
- END CAP
- NEW WATER METER TO BE INSTALLED (3)
- HOSE BIBB (H.B.), WALL MOUNTED
- GATE VALVE
- EXISTING SANITARY LINE TO REMAIN
- NEW PVC SDR-35 SANITARY SEWER LINE
- PROPOSED 4" SANITARY SEWER CLEAN OUT (C.O.)

**WATER DISTRIBUTION SYSTEM NOTES:**

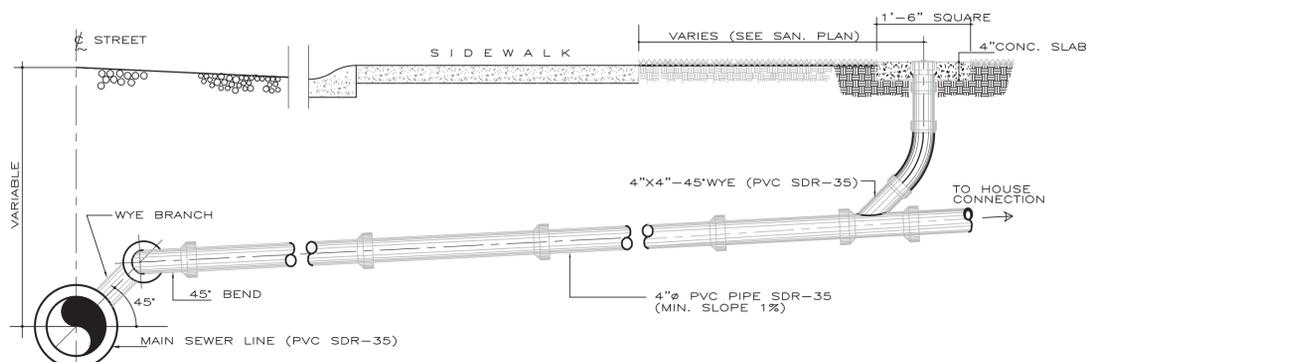
- ALL 1"Ø, 3/4"Ø & 1/2"Ø PIPES LINE SHALL BE COPPER TYPE "K".
- WATER SERVICE SHALL NOT BE INTERRUPTED AT ANY TIME DURING CONSTRUCTION. IF NECESSARY, A PROVISIONAL TEMPORARY BY-PASS MAY BE INSTALLED TO MAINTAIN SERVICE.
- THE CONTRACTOR SHALL TAKE EXTREME CARE SO AS NOT TO DISRUPT THE WATER SERVICE DURING THE EARTHWORK.
- THE CONTRACTOR SHALL NOT TAKE WATER FROM THE PRASA'S WATER SYSTEM FOR SPRINKLING OR CONTROLLING DUST DURING CONSTRUCTION.
- INTERCONNECTION TO EXISTING WATER LINES IN SERVICE SHALL BE PERFORMED BY PRASA PERSONNEL ONLY AND PAID IN ADVANTAGE BY THE CONTRACTOR OR THE HIGHWAY AUTHORITY AFTER WRITTEN AUTHORIZATION IS GRANTED.
- THE LOCATION OF EXISTING WATER LINES ON THESE PLANS ARE APPROXIMATE IN ACCORDANCE TO PRASA INFORMATION. THE CONTRACTOR SHALL CONTACT THE NEAREST PRASA OFFICE TO VERIFY THE EXACT LOCATION BEFORE RELOCATION OR EARTHWORK BEGINS.
- A DETECTABLE TAPE (SIMILAR OR EQUAL TO TERRA-TAPE) 12" BELOW GROUND MUST BE INSTALLED BY CONTRACTOR WITH ALL PVC PIPES. NOT DIRECT PAYMENT SHALL BE DONE FOR THIS ITEM BUT SHALL BE CONSIDERED AS A SUBSIDIARY OF THE CONTRACTOR COVERED UNDER THE PAY ITEM FOR PVC PIPE.
- ALL SERVICE CONNECTIONS SHALL BE IN COPPER FLEXIBLE TYPE K.
- THE CONTRACTOR SHALL OBTAIN P.R.A.S.A.'S APPROVAL OF THE PROPOSED MATERIALS PRIOR TO THE PURCHASE.
- SEE WATER DISTRIBUTION SYSTEM DETAILS ON C-602.

**SANITARY SEWER NOTES:**

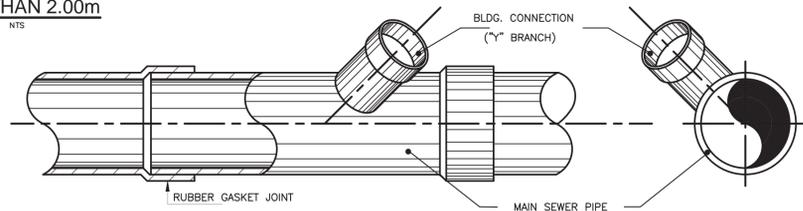
- METRIC SYSTEM HAS BEEN USED THROUGHOUT THE PROJECT UNLESS OTHERWISE SPECIFIED.
- SEE SANITARY SEWER SEPTIC & INFILTRATION SYSTEM DETAILS ON SHEET C-601.
- SANITARY SEWER PIPES SHALL BE 4" DIAMETER POLYVINYL CHLORIDE PIPE, S.D.R.-35 WITH RUBBER GASKET JOINT.

**UTILITIES PLAN**

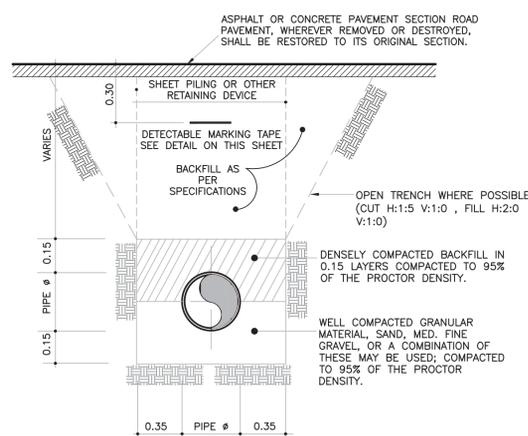
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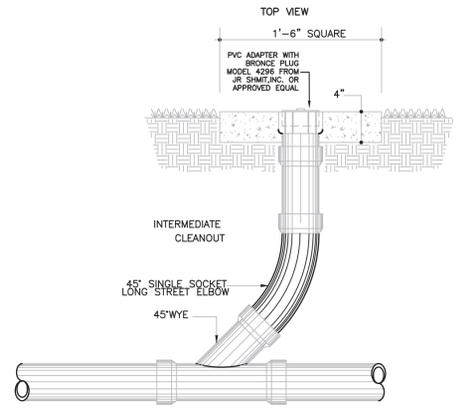
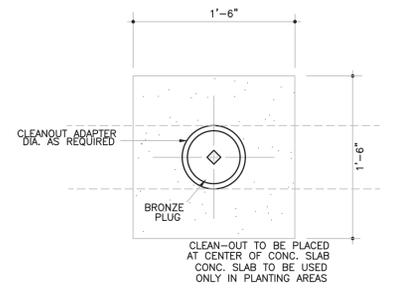
**SANITARY CONNECTION DETAIL TO MAIN SEWER LINE  
LESS THAN 2.00m**  
NTS



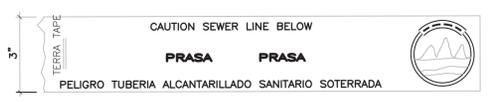
**LOT CONNECTION DETAIL**  
NTS



**SANITARY PIPE TRENCH DETAIL**  
NTS

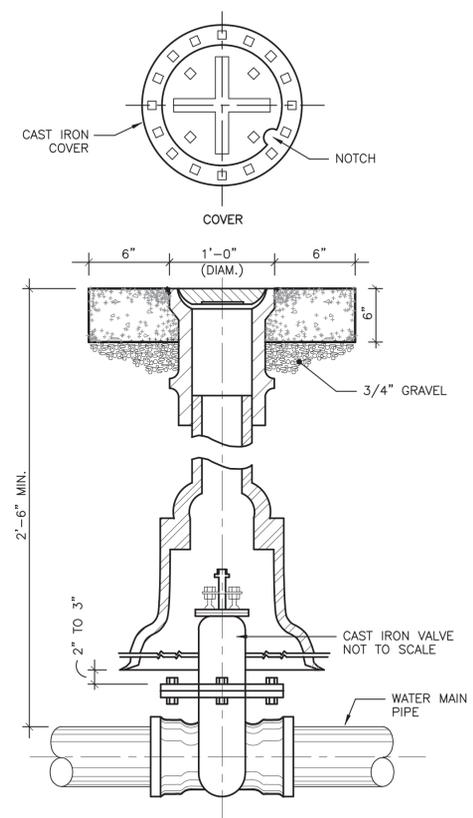


**CLEAN OUT DETAIL**  
NTS

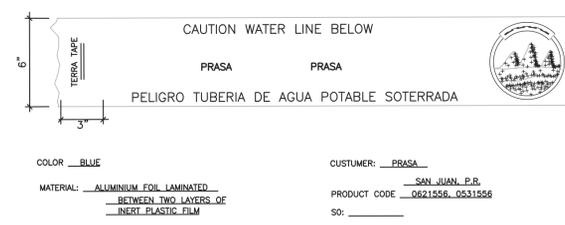


COLOR GREEN CUSTOMER: PRASA  
SAN JUAN, P.R.  
MATERIAL: ALUMINUM FOIL LAMINATED  
BETWEEN TWO LAYERS OF  
INERT PLASTIC FILM PRODUCT CODE 0621556\_0531556  
IMPRINT COLOR: BLACK SO: \_\_\_\_\_

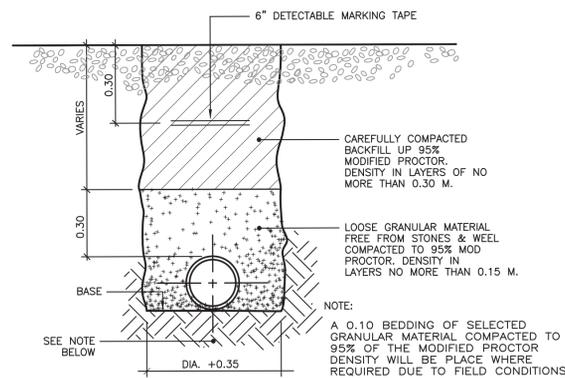
**DETECTABLE MARKING TAPE DETAIL FOR SANITARY SEWER PIPE**  
NTS



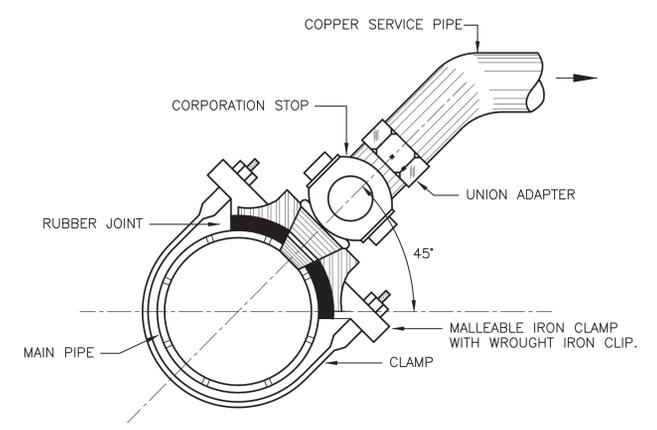
**GATE VALVE BOX DETAIL**  
NTS.



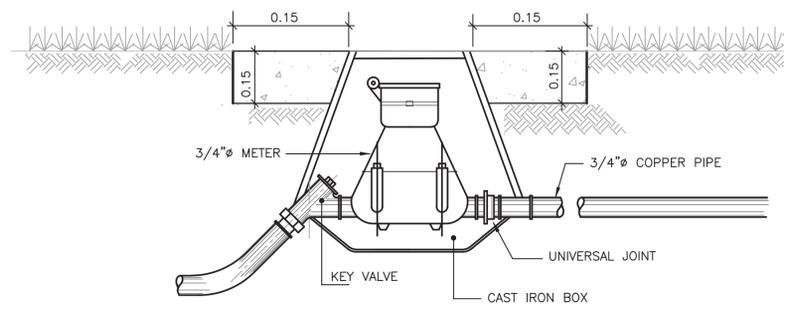
**6\"/>**



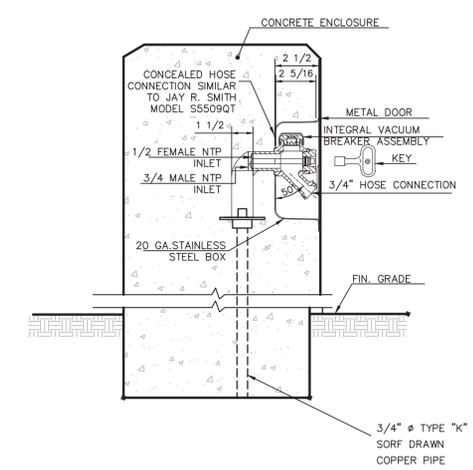
**TRENCH DET. FOR WATER LINE**  
NTS.



**TYPICAL DETAIL OF WATER SERVICE CONNECTION WITH CLAMP**  
NTS.



**3/4\"/>**



**WALL MOUNTED HOSE BIBB DETAIL**  
NTS.

- NOTES:**
- 1.) OPEN TRENCH: SLOPE TO BE DETERMINED BY THE RESIDENT ENGINEER.
  - 2.) TRENCH PROTECTION: TO BE DETERMINED BY CONTRACTOR TO ENSURE PROTECTION OF ADJACENT STRUCTURES, TRENCH WALLS AND WORKING CREWS INSIDE AND OUT OF TRENCH.
  - 3.) GROUND OR PAVED SURFACES TO BE REPLACED OR RESTORED IN ACCORDANCE TO DETAILS AND SPECIFICATIONS.
  - 4.) DETECTABLE MARKING TAPE SEE THE SPECIFICATIONS FOR INSCRIPTIONS.
  - 5.) CONTRACTOR SHALL BE AWARE OF THE PRESENCE OF ROCK FRAGMENTS DURING TRENCH EXCAVATIONS.
  - 6.) THESE PLANS HAVE BEEN PREPARED AS PER P.R.A.S.A. SPECIFICATIONS, IN THE EVENT OF AN OVERSIGHT OR OMISSION, CONTRACTOR SHALL FOLLOW THE DIRECTIVE ISSUED BY P.R.A.S.A. INSPECTOR AND/OR RESIDENT ENGINEER
  - 7.) WHEN UTILITY PIPING AND FORCE MAIN CROSS EACH OTHER OR WHEN LAID AT HORIZONTAL DISTANCE OF LESS THAN 1.52m (5ft.) FROM EACH OTHER, FORCE MAIN SHOULD BE INSTALLED AT A HIGHER LEVEL THAN THE UTILITY PIPING AND NO LESS THAN 0.38m (1ft.) BETWEEN THE OUTSIDE OF THE FORCE MAIN AND THE SEWER.
  - 8.) UTILITY CROSSINGS TO BE APPROVED BY RESIDENT ENGINEER AND THE CORRESPONDING AGENCY OR OWNER OF THE UTILITY TO BE CROSSED.
  - 9.) COMPRESSIVE STRENGTH OF CONCRETE TO BE 4,000 PSI @ 28 DAYS.



NOTE: All designs, drawings and specifications prepared by VISURA CSP and its consultants are rightly owned by VISURA CSP and shall not be copy or distributed by other parties other than the designers. VISURA CSP have all copy rights of the project. All unauthorized copies are illegal and delinquents will be prosecuted under a court of law.



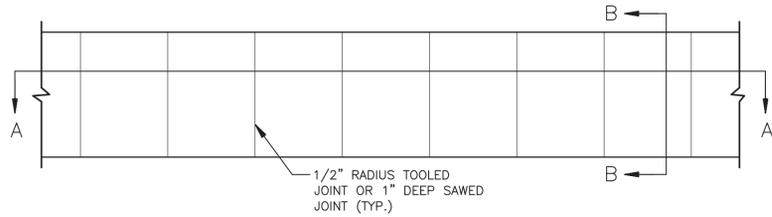
PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

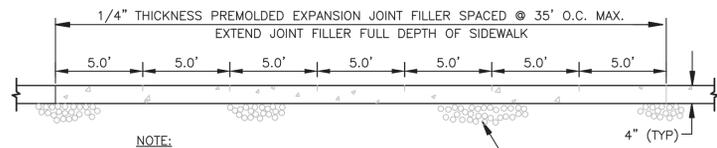
MUNICIPIO VILLALBA	OWNER
4B-2022	PROJECT NUMBER
JANUARY 24, 2024	PRINTING DATE
CJQ	DRAWN / APPROVED
	REVISION
	CONSTRUCTION PHASE
	PROJECT PHASE

UTILITIES DETAILS

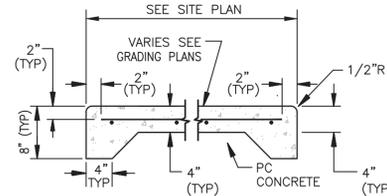
C-401 SHEET NO.



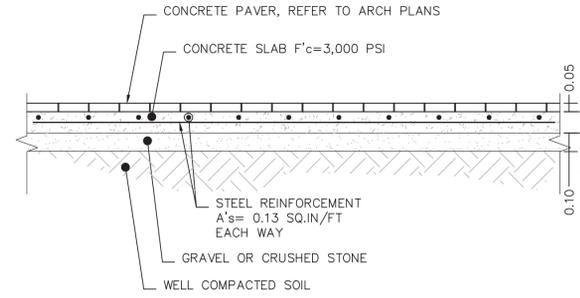
**PLAN VIEW**  
NOT TO SCALE



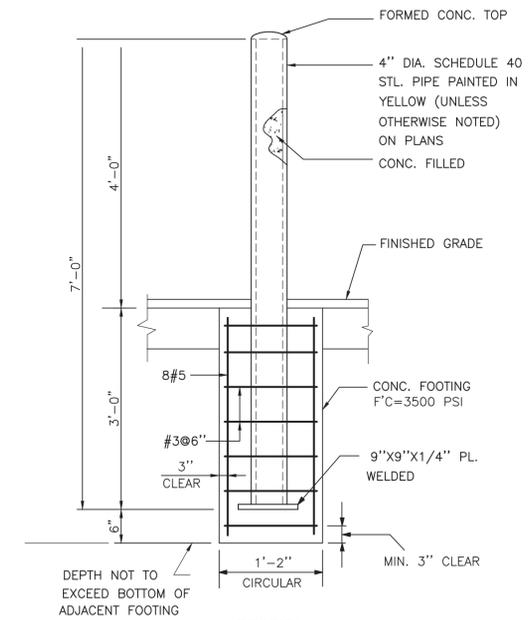
**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE

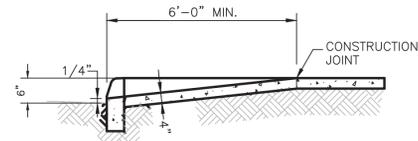


**CONCRETE FLOOR SLAB DETAIL**  
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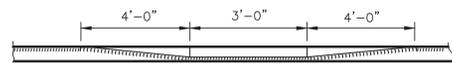


**STEEL PIPE BOLLARD DETAIL**  
NOT TO SCALE

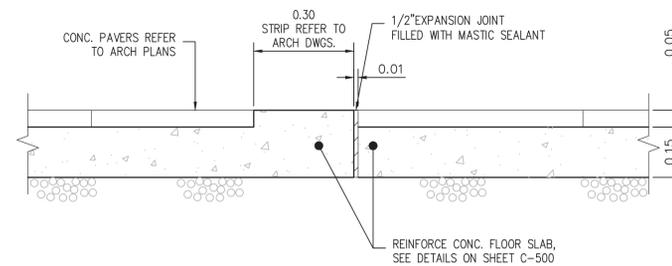
**CONCRETE SIDEWALK DETAIL**  
NOT TO SCALE



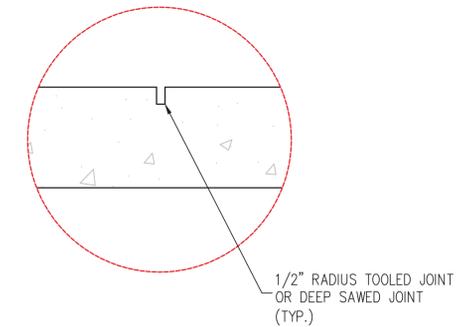
**SECTION A - A**



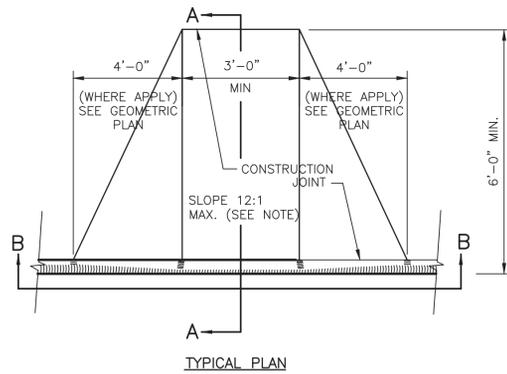
**SECTION B - B**



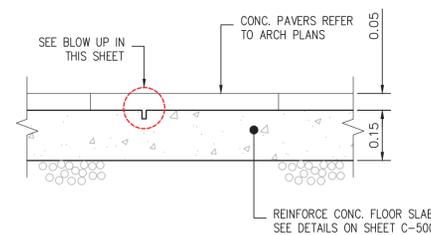
**EXPANSION JOINT DETAILS**  
SCALE 1:10



**BLOW UP- CONSTRUCTION JOINT DETAILS**  
NOT TO SCALE



**HANDYCAP RAMP DETAIL**  
NOT TO SCALE



**EXPANSION JOINT DETAILS**  
SCALE 1:10



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PROFESSIONAL / CONSULTANT

**JOSE RAMON FIGUEROA RIVERA**  
**PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
C/JQ DRAWN / APPROVED



REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

CIVIL DETAILS  
PART-1

SHEET NO.  
**C-500**

# PLANT MATERIAL SELECTION

## TREES AND PALMS:



Uvilla (Cd - Coccotheca diversifolia)



Eleocharis (Er - Eleocharis reticulata)



Polyalthia (Pl - Polyalthia longifolia)



Retama (Sp - Senna polyphylla)

## SHRUBS AND GROUNDCOVERS:



Cafe de la India (Mp - Murraya paniculata)



Frescura (Pim - Pilea microphylla)



Monstera (Md - Monstera deliciosa)



Hemigrafe (Ha - Hemigraphis alternata)



Ginger rojo (Alp - Alpinia purpurea)



Cupey (Cl - Clusia rosea)



Jasmin sambac (Js - Jasminum sambac)



Liriope verde gigante (Lm - Liriope muscarii 'Evergreen Giant')



Crinum enano morado (Cam - Crinum 'Menehune')



Cariaquillo mixto (Lc - Lantana camara)

## PLANTING SCHEDULE:

Type	Code	Latin name	Common name	Spacing	Total	Size
<b>TREES</b>						
	Cd	<i>Coccotheca diversifolia</i>	UVILLA/PIGEON PLUM		10	8' / 15 gal / 1.5' cal
	Et	<i>Eleocharis</i>	ELEOCHARIS TOPIARIO		8	6'-7' / 25 gal
	Pl	<i>Polyalthia longifolia</i>	POLIALTHIA VERTICAL		4	transplanted
	Sp	<i>Senna polyphylla</i>	RETAMA PRIETA/DESERT CASSIA		3	8' / 15 gal / 1.5' cal
<b>PALMS</b>						
<b>SHRUBS</b>						
	Alp	<i>Alpinia purpurea</i>	GINGER RED	36" oc	43	2 gal
	Cam	<i>Crinum amabile</i> 'Purple'	CRINUM MORADO	30" oc	20	3 gal
	Cl	<i>Clusia rosea</i>	CUPEY DWARF	24" oc	70	2 gal
	Js	<i>Jasminum sambac</i>	ARABIAN JASMINE	24" oc	62	2 gal
	Lc	<i>Lantana camara</i>	CARIAQUILLO VAR. COLOR	24" oc	175	2 gal
	Lm	<i>Liriope muscarii</i> 'Evergreen Giant'	LIRIOPE GREEN GIANT	12" oc	48	1 gal
	Md	<i>Monstera deliciosa</i>	MONSTERA	36" oc	58	2 gal
	Mp	<i>Murraya paniculata</i>	CAFÉ DE LA INDIA	30" oc	32	3 gal
	Pim	<i>Pilea microphylla</i>	FRESCURA	30" oc	119	2 gal
<b>GROUNDCOVERS</b>						
	Ha	<i>Hemigraphis alternata</i>	EMIGRAFE / WAFFLE PLANT	24" oc	80	basket
<b>SOD</b>						
	Zm	<i>Zoysia matrella</i> 'Manila'	GRAMA ZOYZIA MANILA	1 per sq.ft.	1301	Carpet
<b>VINES</b>						
<b>OTHERS</b>						
	Mu	Mulch**	Mulch 2" depth	2" depth	14	m3
		Fertilizer <sup>3</sup>	Fertilizer		4	100 lb bag
		Top soil <sup>2</sup>	Top soil shrubs and groundcovers 6" depth	6" depth	47	m3
		Top soil <sup>2</sup>	Top soil sod 4" depth	4" depth	12	m3
		Root control <sup>1</sup>	Root control		140	li.ft.
		Tree trunk base protector	Tree guard or similar		25	
		Tree staking and guying	Tree staking and guying	unit	13	Set
		Tree Transplanting	Tree Transplanting (ARBOL DE HIERRO)		4	

### \*NOTES

- 1 Areas covered in river stone should be installed over a double layer of weed control fabric.
- 2 Top soil, mulch, and fertilizer quantities have been estimated and may vary depending on site conditions and project necessities. Contractor must recalculate.
- 3 Root control barrier (as specified on planting details page) must be used whenever trees or palms are enclosed by pavement on all sides (see Landscape plan). Contractor must identify, estimate, and quote root barrier.

Gabriel Bértiz y Asociados, Inc.
   
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 P.O. Box 1000
   
 San Juan, P.R. 00911
   
 www.gabrielbertiz.com

REVISIONS  
 DESCRIPTION  
 No. DATE

LANDSCAPE DESIGN  
 PLAZA PUBLICA DE VILLALBA  
 JOSE RAMON FIGUEROA RIVERA  
 CALLES BARCELO, ANTONIN CASTILLO Y CARR. 148R  
 Villalba, Puerto Rico

FINAL  
 LANDSCAPE DESIGN

SEAL:  
  
 FRANCISCO DE LA ROSA  
 INGENIERO EN ARQUITECTURA  
 No. 1000  
 P.R. 00911

YO, FRANCISCO DE LA ROSA, LIC. NÚM. 161, CERTIFICO QUE SOY EL PROFESIONAL QUE DISEÑO ESTOS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS. TAMBIÉN CERTIFICO QUE ESTOS PLANOS Y ESPECIFICACIONES CUMPLEN CON LAS DISPOSICIONES APPLICABLES DEL REGLAMENTO CONJUNTO Y LAS DISPOSICIONES APPLICABLES DE LOS REGLAMENTOS Y CÓDIGOS DE LAS AGENCIAS, ENTIDADES REGULADORAS O CORPORACIONES PÚBLICAS CON JURISDICCIÓN RECONOCIDA QUE CUALQUIER DECLARACIÓN FALSA O FALSIFICACIÓN DE LOS DATOS QUE SE HAYA PRODUCIDO SIN CONOCIMIENTO O POR NEGLIGENCIA Y SI EN FUTURO ME AGENTES O EMPLEADOS, O POR OTRAS PERSONAS CON MI CONOCIMIENTO ME HACEN RESPONSABLE DE CUALQUIER ACCIÓN LEGAL, PODRÉ INHIBIR POR LA OGP Y OTRAS AUTORIDADES COMPETENTES, INDEFINITAMENTE, PARA SUI LAMITARSE A LA TERMINACIÓN DE LA PARTICIPACIÓN EN LOS PROCEDIMIENTOS DE CERTIFICACIÓN PROFESIONAL EN LA OGP.

TITLE:

PLANT MATERIAL

DESIGNED BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_

FILE NAME: \_\_\_\_\_ PLOT DATE: \_\_\_\_\_ PLOT SCALE: 1"

SCALE: not to scale

SHEET REFERENCE NUMBER: LS-102

SHEET No. 02 OF 03



**GRAPHIC LEGEND**

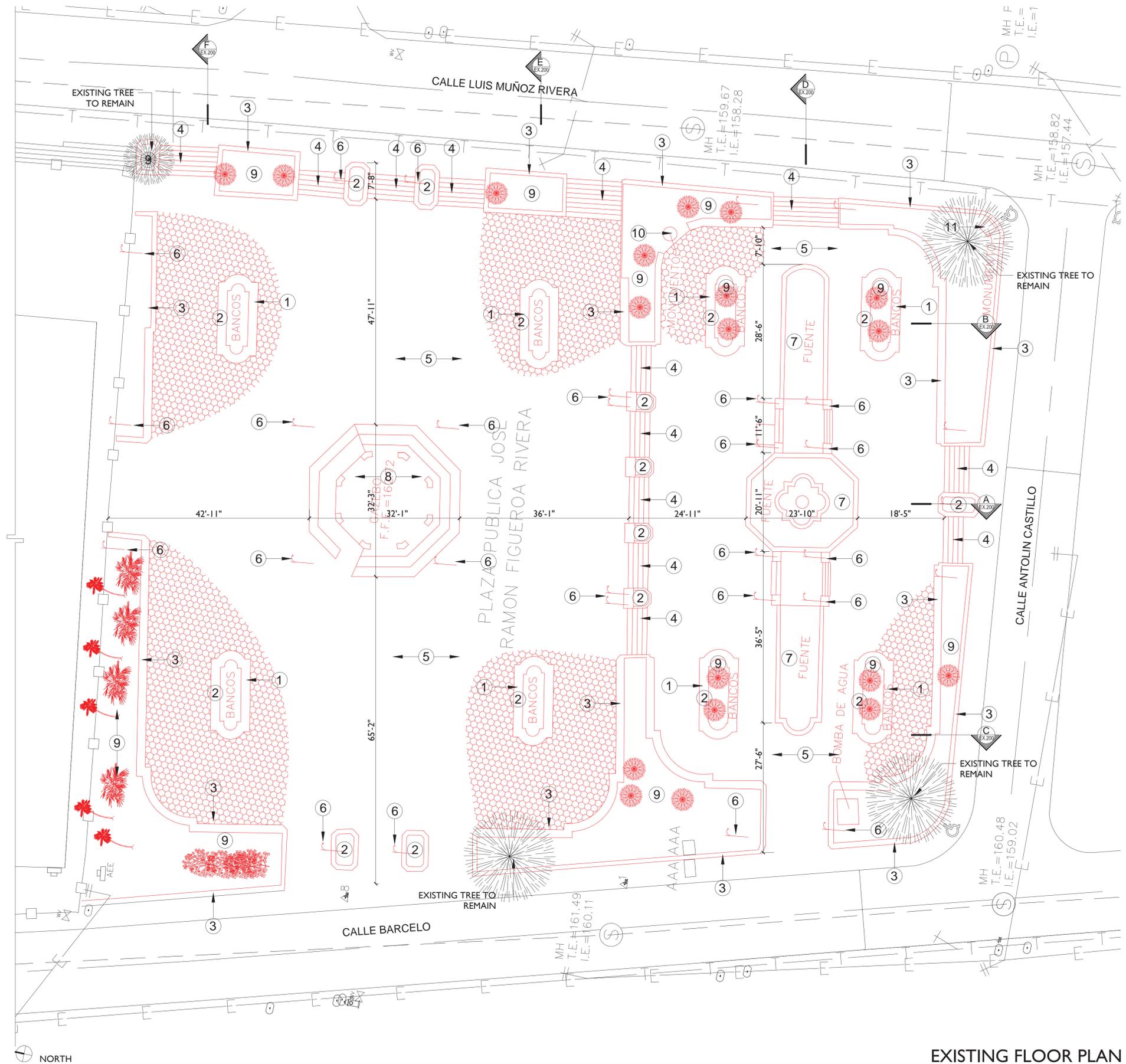
-  EXISTING STRUCTURE
-  DEMOLITION
-  FLOOR LEVEL CHANGE

**TO BE REMOVED OR DEMOLISHED**

- ① CONCRETE BENCH
- ② PLANTING BOX
- ③ CONCRETE WALL OR LOW WALL
- ④ PRECAST CONCRETE STEPS
- ⑤ CONCRETE PAVERS
- ⑥ LIGHT POLES
- ⑦ FOUNTAIN
- ⑧ GAZEBO (FLOOR, STRUCTURE, ROOF, STEEL ELEMENTS)
- ⑨ EXISTING TREES OR VEGETATION
- ⑩ JOSE RAMON FIGUEROA BUST
- ⑪ AGUSTIN BURGOS BUST

**NOTES**

1. CONTRACTOR IS RESPONSIBLE TO KNOW THE PROJECT CONTENTS.
2. CONTRACTOR IS RESPONSIBLE TO REVISE THE EXISTING STRUCTURE INCLUDING FLOOR SLAB, WALLS, CEILING AND SLOPE OF THE AREAS BEFORE BEGINNING EXISTING WORK.
3. CONTRACTOR IS RESPONSIBLE TO NOTIFY ANY DISCREPANCY BETWEEN THE EXISTING PLAN, THE PROPOSED PLAN AND EXISTING CONDITION PLAN. CONTRACTOR MUST NOTIFY IN WRITING TO THE DESIGNER AND OWNER BEFORE BEGINNING OF THE WORK.
4. ALL NEW CUTS ON EXISTING CONCRETE SURFACE MUST BE DONE CAREFULLY WITH A SAW CUT AND PROPER DISC.
5. THE CONTRACTOR SHALL REPAIR AND LEVEL ALL SURFACES ON FLOOR BEFORE INSTALLING FINISHES AND/OR EQUIPMENTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PROJECT WORK SPACE CLEAN DURING AND AFTER CULMINATING EXISTING WORK, AND CURRENTLY ON THE CONSTRUCTION OF THE PROJECT.
7. REMOVE ALL TYPE OF INFRASTRUCTURE NECESSARY FOR THE NEW CONSTRUCTION.
8. PROVIDE CAPS FOR SEALING ALL EXISTING REMAINING PIPES THAT ARE NOT PART OF THE PROJECT.
9. REMOVE ALL PAVERS 2" APROX. AT PLAZA LEVEL. REMOVE UNKNOWN SURFACE BELOW EXISTING PLAZA PAVERS; PREPARE FOR NEW CONCRETE TOPPING AS INDICATED ON PLANS. CONCRETE TOPPING MUST BE LEVELED FOR NEW PAVERS FINISH INSTALLATION.
10. REMOVE ALL PAVERS ON SIDEWALK THAT SURROUND THE CATHEDRAL AND PLAZA. PREPARE & LEVEL SURFACE FOR NEW PAVER INSTALLATION AS AS INDICATED ON PLANS.
11. EXISTING FOUNTAIN AREA TO BE DEMOLISHED. FILL AND COMPACT WELL WITH SOIL AS INDICATED ON PLANS.
12. ALL DATA PRESENTED HERE WERE PROVIDED BY SURVEY AND TOPOGRAPHY TAKEN ON SITE AS EXISTING CONDITIONS, ANY DISCREPANCIES SHOULD BE CLARIFY WITH DESIGNER, OWNER AND GENERAL CONTRACTOR BEFORE ANY WORK TO BE DONE.
13. CONTRACTOR SHOULD REVISED ALL EXISTING LEVELS BEFORE CONSTRUCTION OF NEW FOUNDATIONS, FLOOR, RAMP, LOW WALLS, SWALES, CURBS, SIDEWALKS AND PLANTING AREAS. FOR THE NEW RENOVATION ALL LEVELS SHOULD REMAIN SIMILAR TO EXISTING.
14. GENERAL CONTRACTOR SHOULD REVISED EXISTING STORM WATER DISCHARGES BEFORE DETERMINED NEW LEVELS OF SURFACES, PLANTINGS AND CATCH BASING.
15. EXISTING CATCH BASING, ELECTRICAL JUNCTION BOXES, DATA CHASES AND OTHER UNDERGROUND CHASES ARE UNKNOWN AND ANY SUDDEN CONDITION FOUND ON SITE SHOULD BE EVALUATED WITH OWNER, DESIGNER AND SPECIALIST BEFORE ANY FINAL DECISION.
16. ALL EQUIPMENT, FURNITURE AND LIGHTING FIXTURES IN GOOD CONDITION SHOULD BE RETURNED TO OWNER.
17. EXISTING TREES, PLANTS AND SHRUBS THAT ARE TO BE REMOVED SHOULD BE COORDINATED WITH LANDSCAPE DESIGN AND SPECIALIST RECOMMENDATIONS.
18. MAIN UTILITIES AND INFRASTRUCTURE SHOULD FOLLOW RECOMMENDATIONS SUBMITTED BY AGENCIES AND ANY DISCREPANCY WILL BE CONSULTED WITH SPECIALIST AND OWNER.



**EXISTING FLOOR PLAN**  
SCALE 3/32" = 1'-0"



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**BID SET**

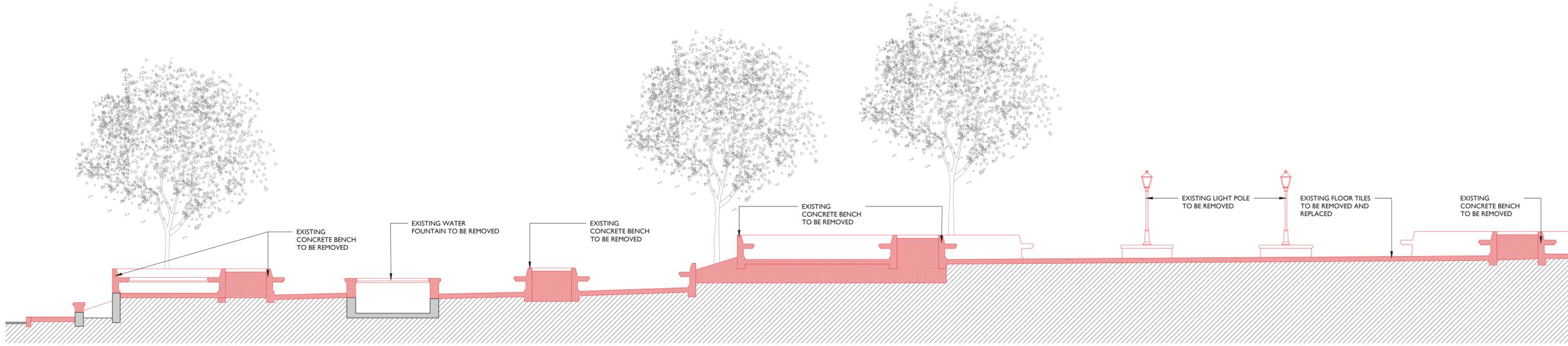
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

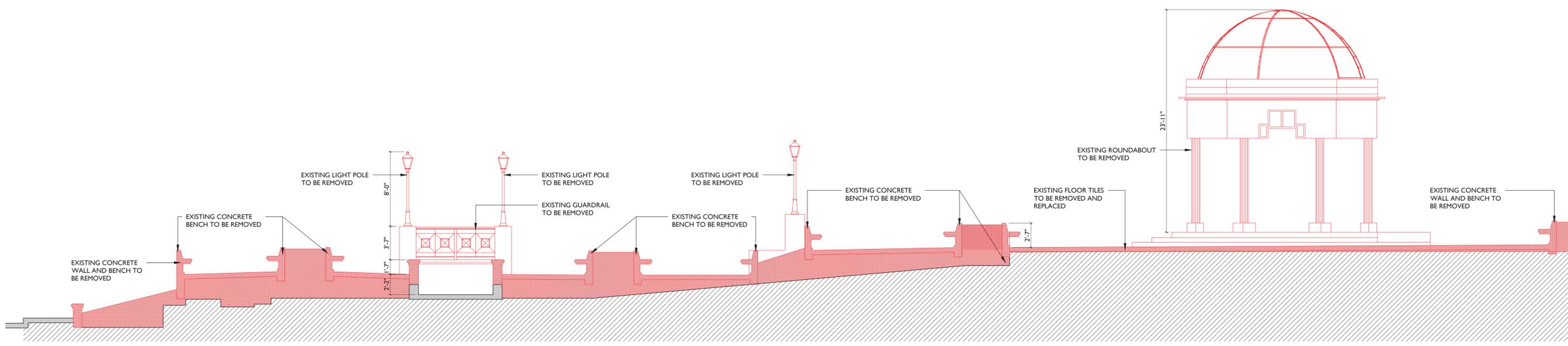
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CONSTRUCTION PHASE  
PROJECT PHASE

DEMOLITION PLAN  
SHEET TITLE

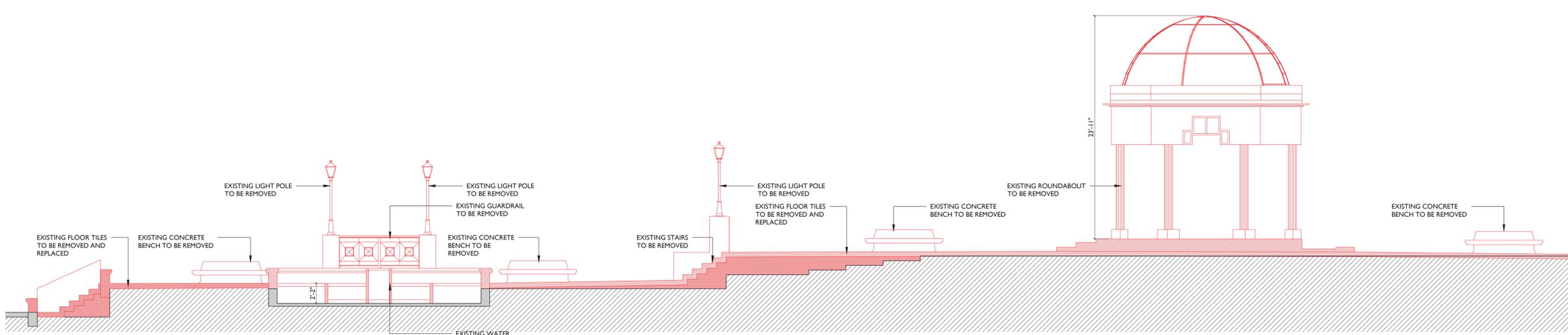
EX-100  
SHEET NO.



**C- SECTION**  
 SCALE 3/16" = 1'-0"



**B- SECTION**  
 SCALE 3/16" = 1'-0"



**A- SECTION**  
 SCALE 3/16" = 1'-0"



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CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

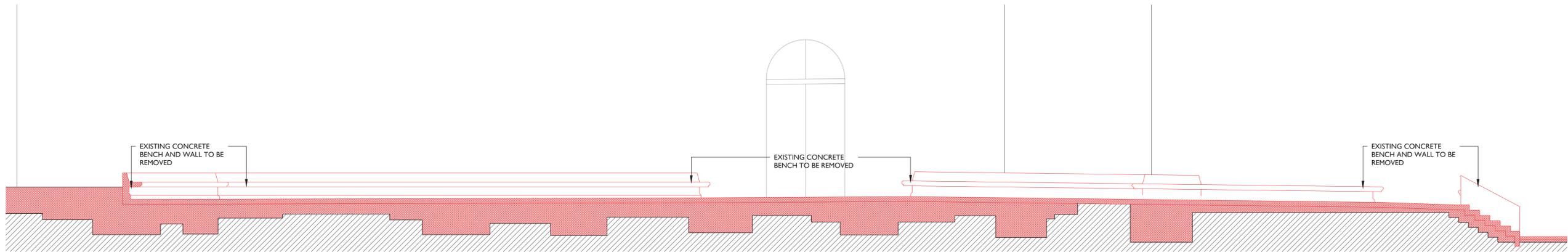
MUNICIPIO VILLALBA

OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
PRINTING DATE  
CJQ  
DRAWN / APPROVED

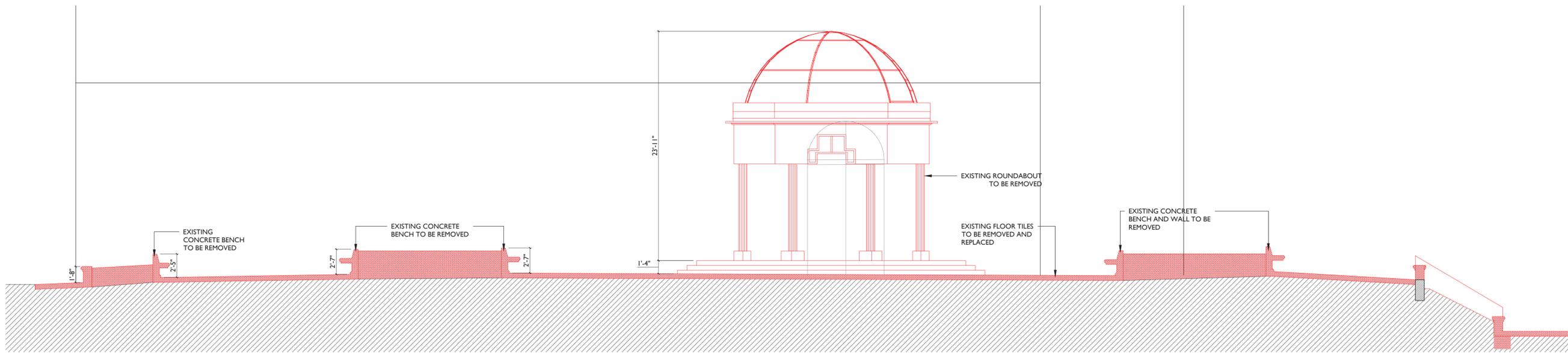
REVISION	CONSTRUCTION PHASE	PROJECT PHASE

EXISTING SECTIONS  
SHEET TITLE

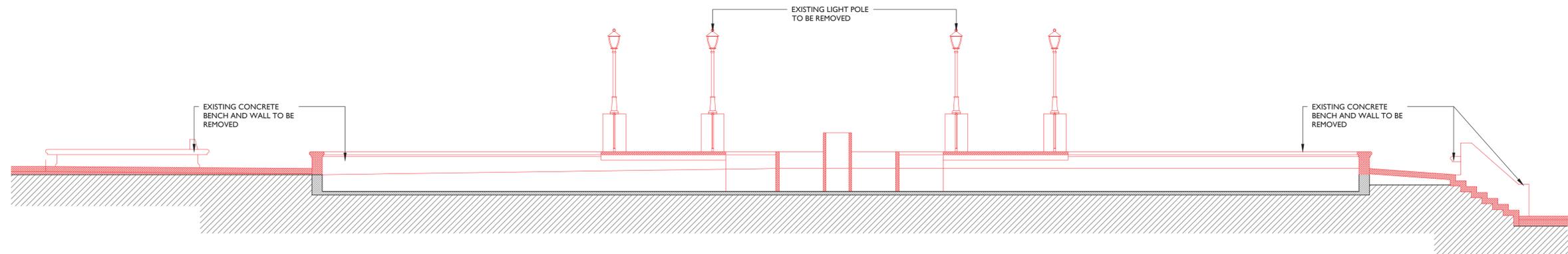
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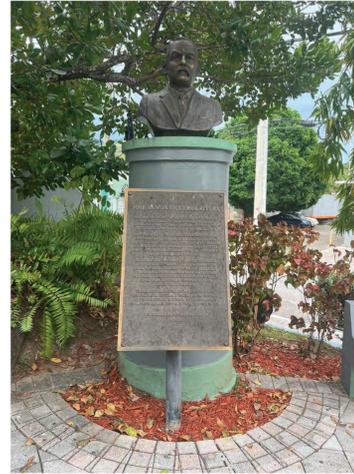
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SCALE 3/16" = 1'-0"



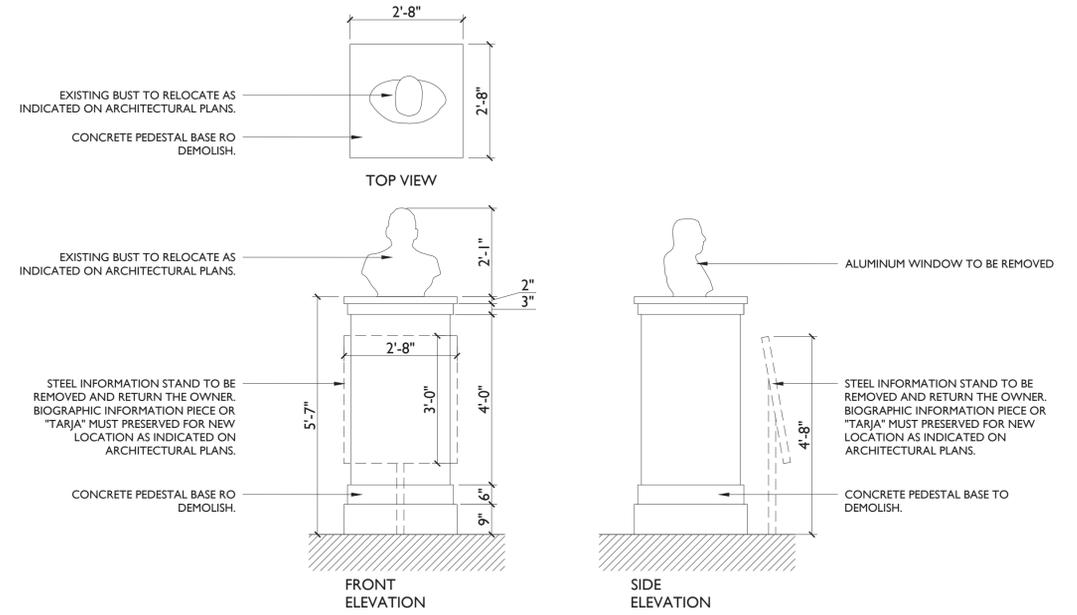
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SCALE 3/16" = 1'-0"



**D- SECTION**  
SCALE 3/16" = 1'-0"



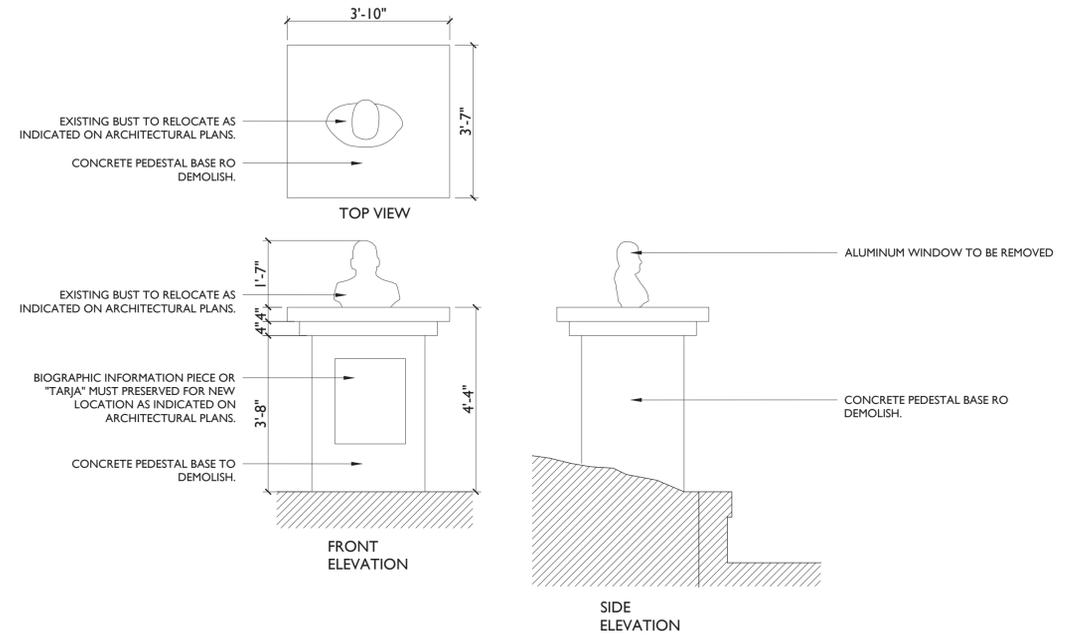
EXISTING BUST JOSE RAMON FIGUEROA RIVERA  
REFERENCE PHOTOS



EXISTING BUST JOSE RAMON FIGUEROA RIVERA  
SCALE 1/2" = 1'-0"



EXISTING BUST AGUSTIN BURGOS  
REFERENCE PHOTOS



EXISTING BUST AGUSTIN BURGOS  
SCALE 1/2" = 1'-0"



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**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJO DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE PROJECT PHASE

DEMOLITION PLAN SHEET TITLE

EX-300 SHEET NO.

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA

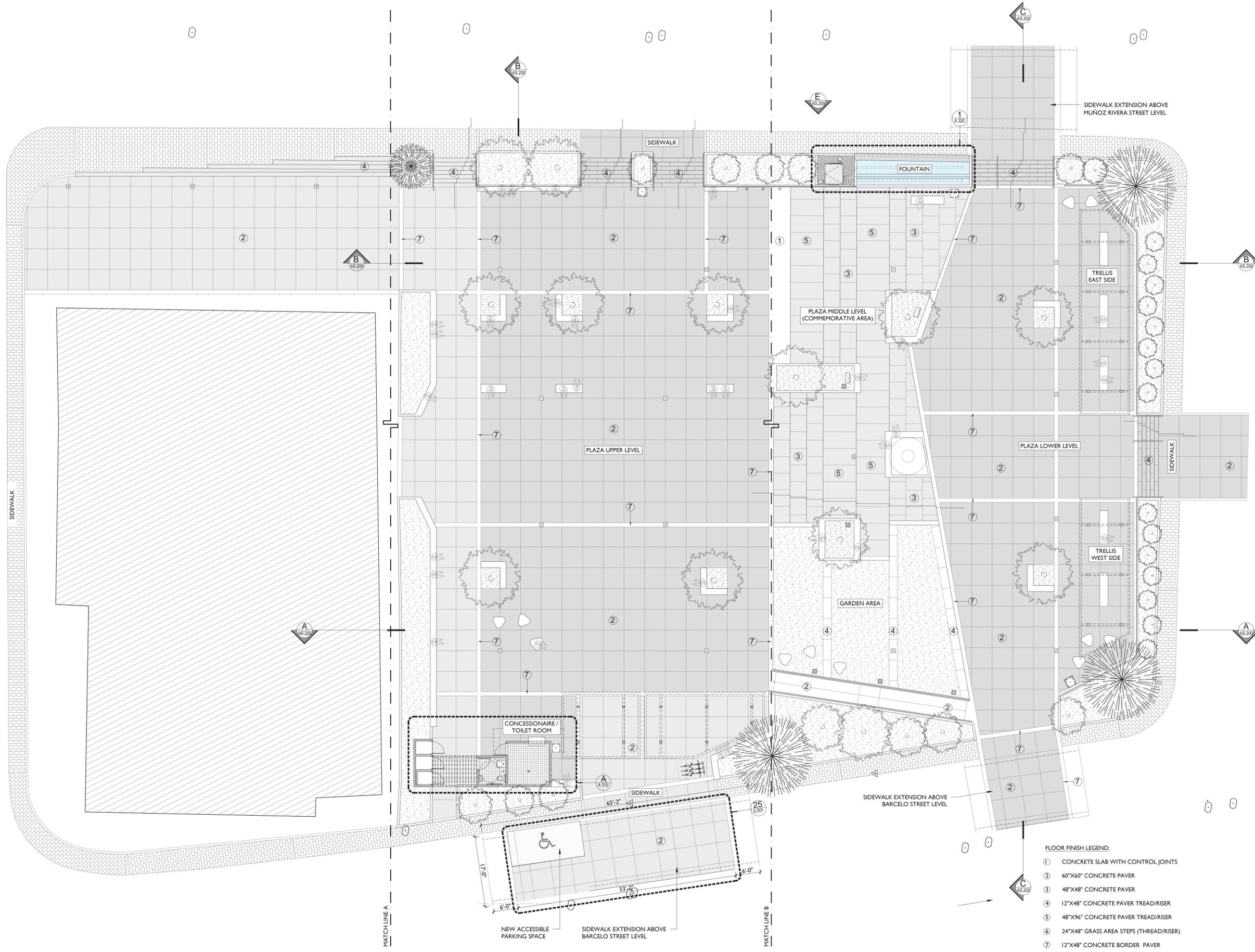
OWNER  
48-2022  
PROJECT NUMBER  
JANUARY 26, 2024  
PRINTING DATE  
CJQ  
DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

PROPOSED PLAZA FLOOR PLAN  
FLOOR PLAN

SHEET TITLE

AS-100  
SHEET NO.



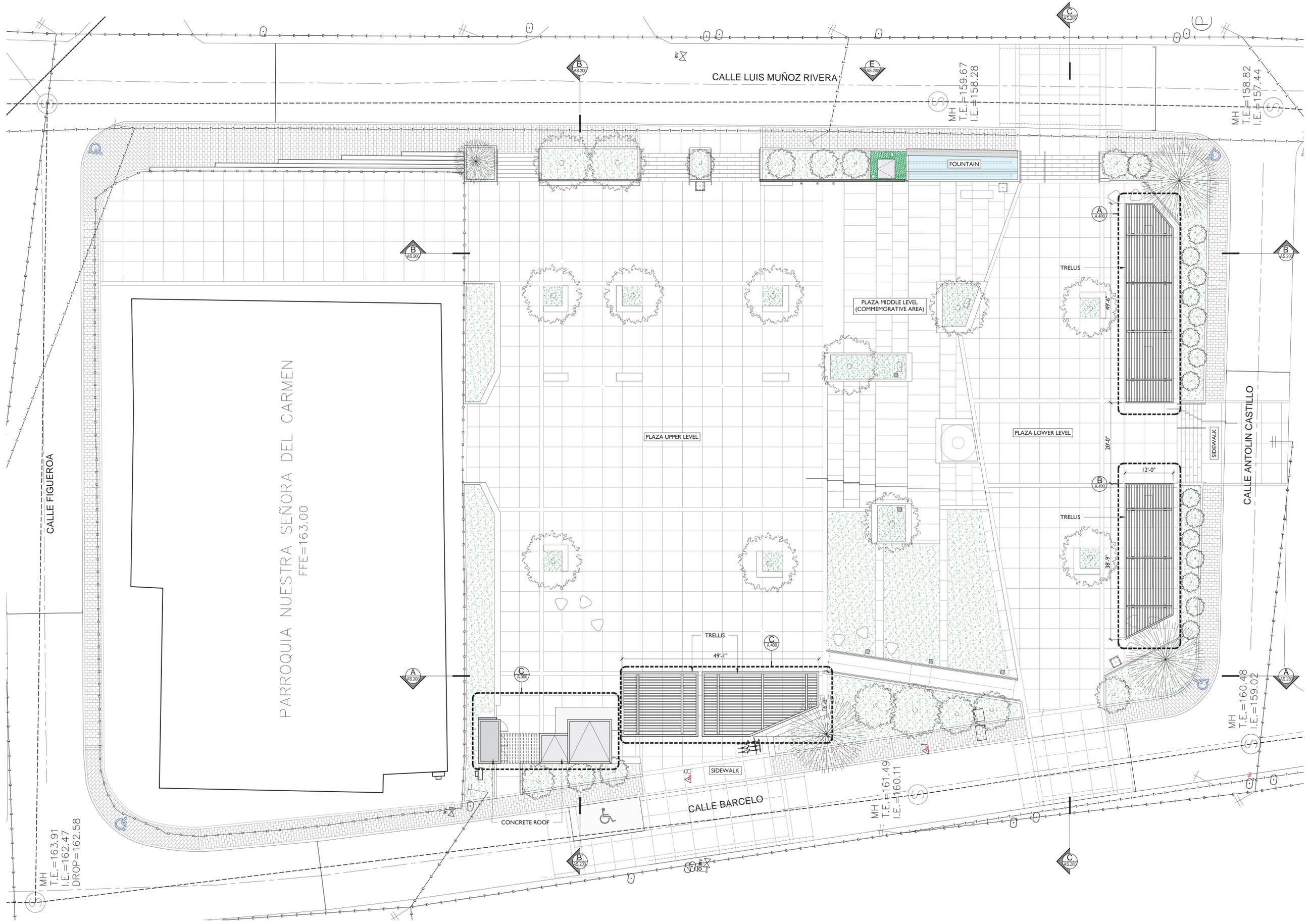
- FLOOR FINISH LEGEND:**
- ① CONCRETE SLAB WITH CONTROL JOINTS
  - ② 60"x60" CONCRETE PAVER
  - ③ 48"x48" CONCRETE PAVER
  - ④ 12"x48" CONCRETE PAVER TREAD/RISER
  - ⑤ 48"x96" CONCRETE PAVER TREAD/RISER
  - ⑥ 24"x48" GRASS AREA STEPS (THREAD/RISER)
  - ⑦ 12"x48" CONCRETE BORDER PAVER
  - ⑧ 12"x24" CONCRETE PAVER SIDEWALKS

NOTE: ALL FINISHES MUST BE NON-SLIP CONCRETE FINISH, AND HIGH TRAFFIC PURPOSE.

**PROPOSED PLAZA FLOOR PLAN**  
SCALE 3/32" = 1'-0"



NORTH




  
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 INGENIERO LICENCIADO  
 PUERTO RICO

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**BID SET**

**JOSE RAMON FIGUEROA**  
**RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA

48-2022	OWNER
JANUARY 26, 2024	PROJECT NUMBER
CJQ	PRINTING DATE
	DRAWN / APPROVED
	REVISION
	CONSTRUCTION PHASE
	PROJECT PHASE

PROPOSED PLAZA  
 ROOF PLAN

SHEET TITLE  
**AS-110**  
 SHEET NO.

**PROPOSED PLAZA ROOF PLAN**  
 SCALE 3/32" = 1'-0"





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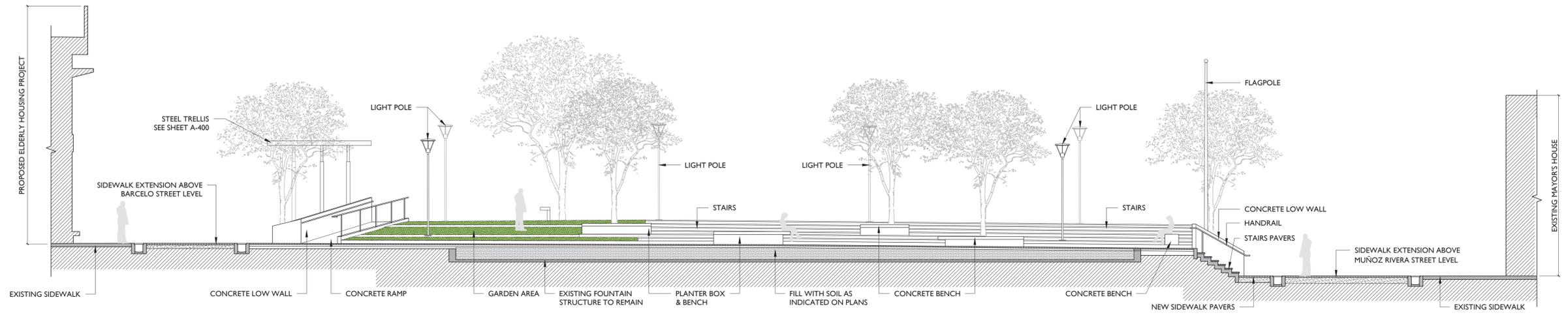
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MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

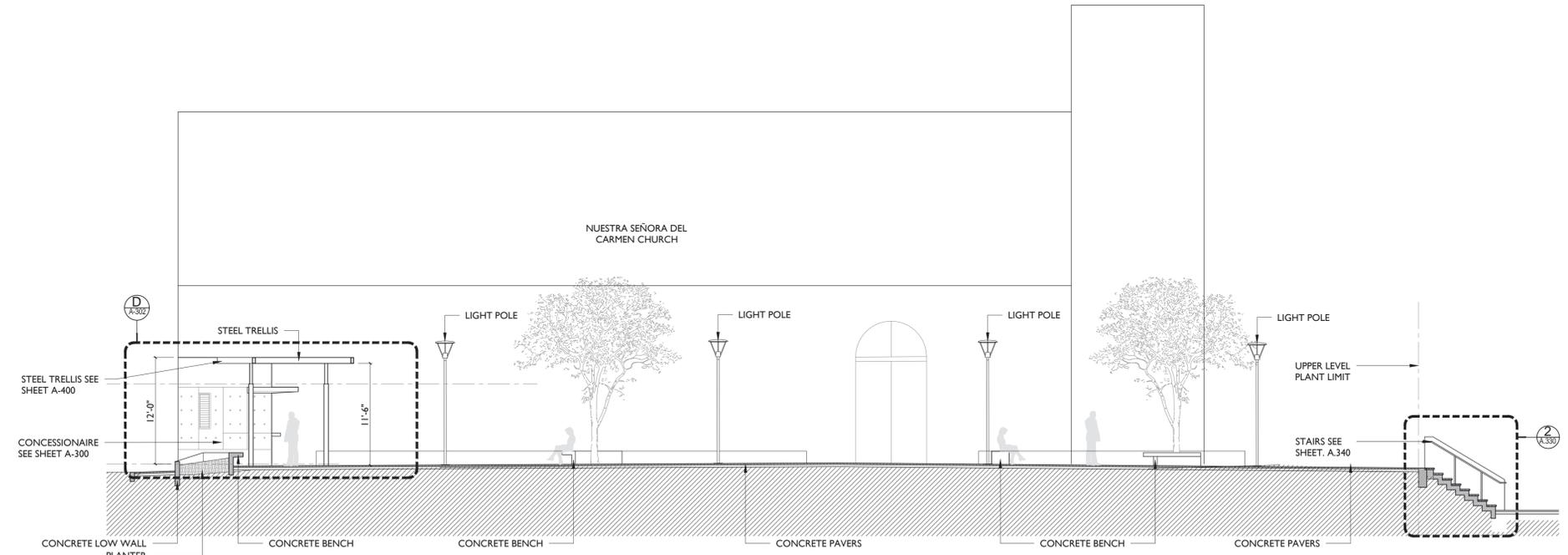
REVISION  
CONSTRUCTION PROJECT PHASE

PROPOSED PLAZA SECTIONS  
SHEET TITLE

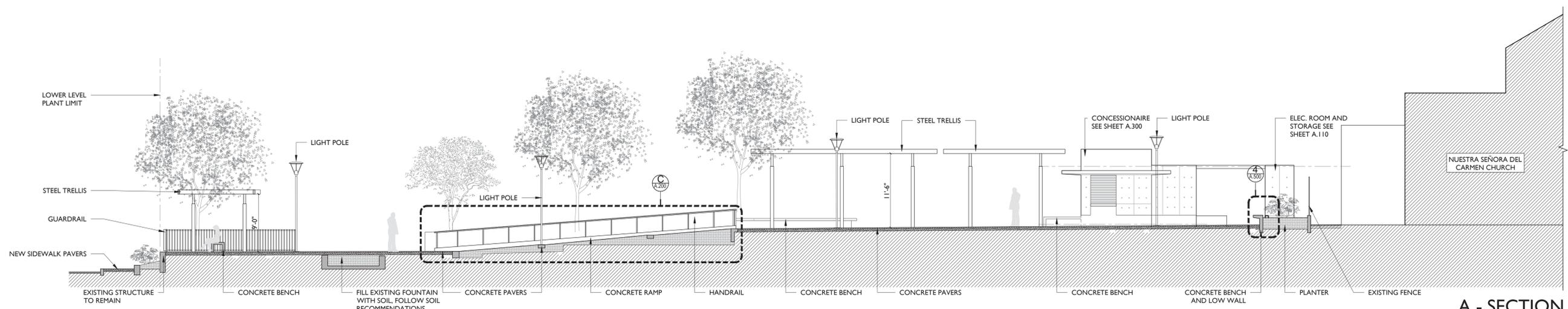
AS-200 SHEET NO.



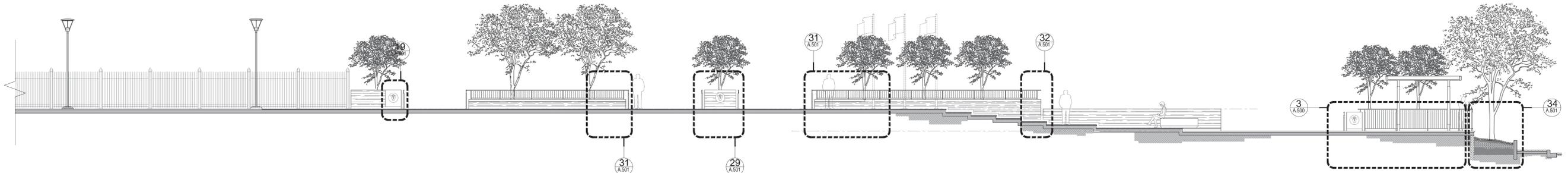
**C - SECTION**  
SCALE 1/8" = 1'-0"



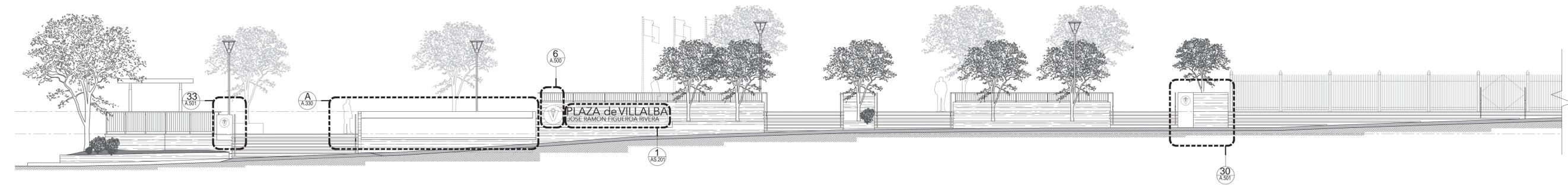
**B - SECTION**  
SCALE 1/8" = 1'-0"



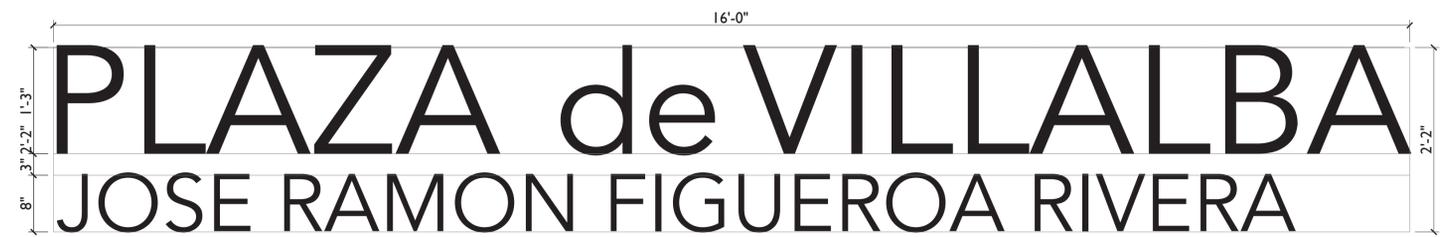
**A - SECTION**  
SCALE 1/8" = 1'-0"



PROPOSED PLAZA WEST ELEVATION-B  
SCALE 1/8" = 1'-0"



PROPOSED PLAZA EAST ELEVATION-A  
SCALE 1/8" = 1'-0"



NEW PLAZA DE VILLALBA SIGN- I  
SCALE 1" = 1'-0"

**NOTES:**

- LETTERING: HELVETICA
- STYLE: LETTER CHANNEL BOX CONSTRUCTION
- ALL LETTERS ARE TO BE ANCHORED ON THE CONCRETE WALL
- LED SELF CONTAINED POWER SUPPLY MOUNTED INSIDE OF LETTERS
- WHITE LED MODULES
- PRIMARY ELECTRICAL LEADS. POWER TO LETTERS TO BE SUPPLIED BY OTHERS
- SIGN SHOP DRAWING WILL BE SUPPLIED BY A SIGN FABRICATION COMPANY, FINAL DESIGN TO BE COORDINATED WITH OWNER.



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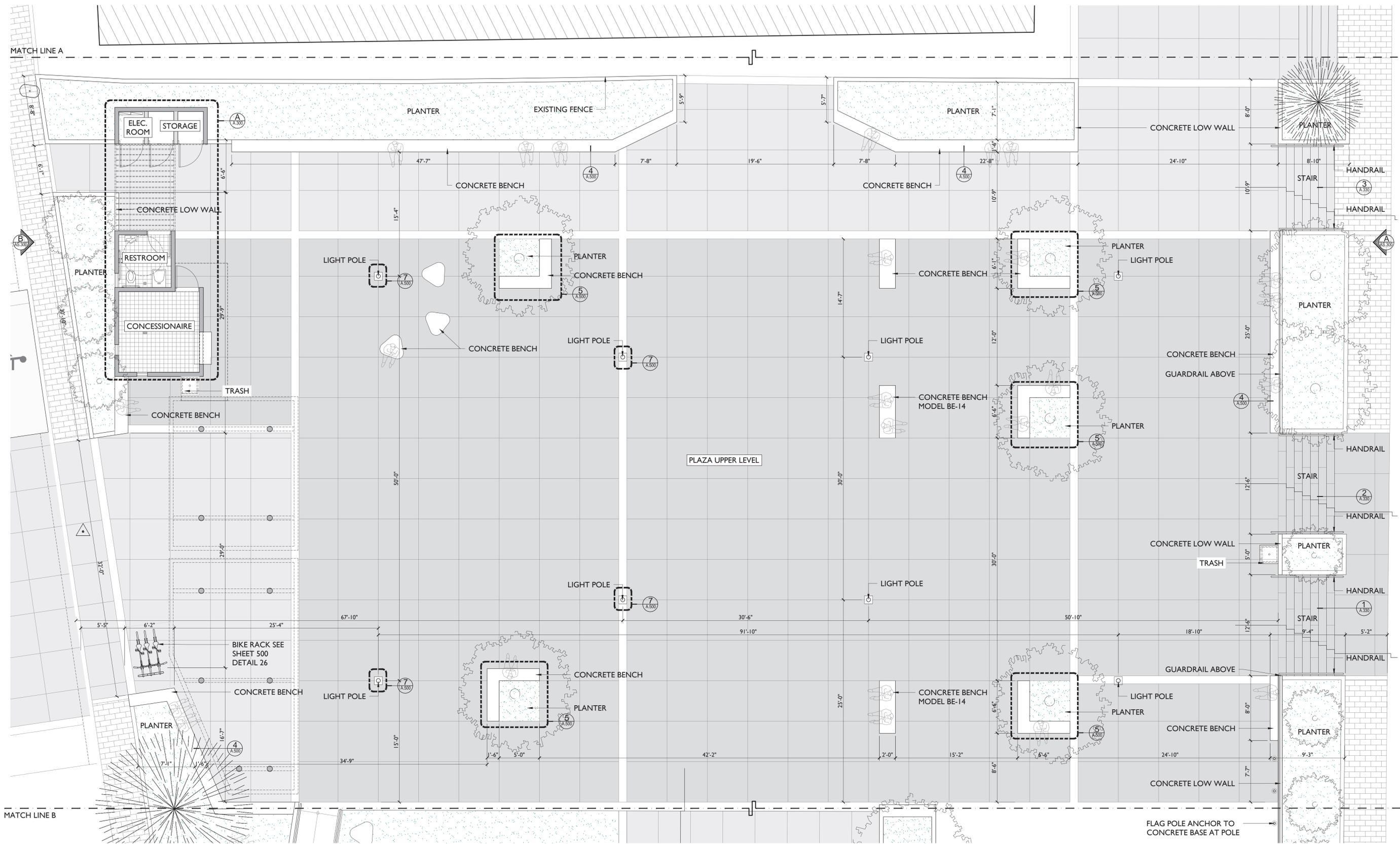
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

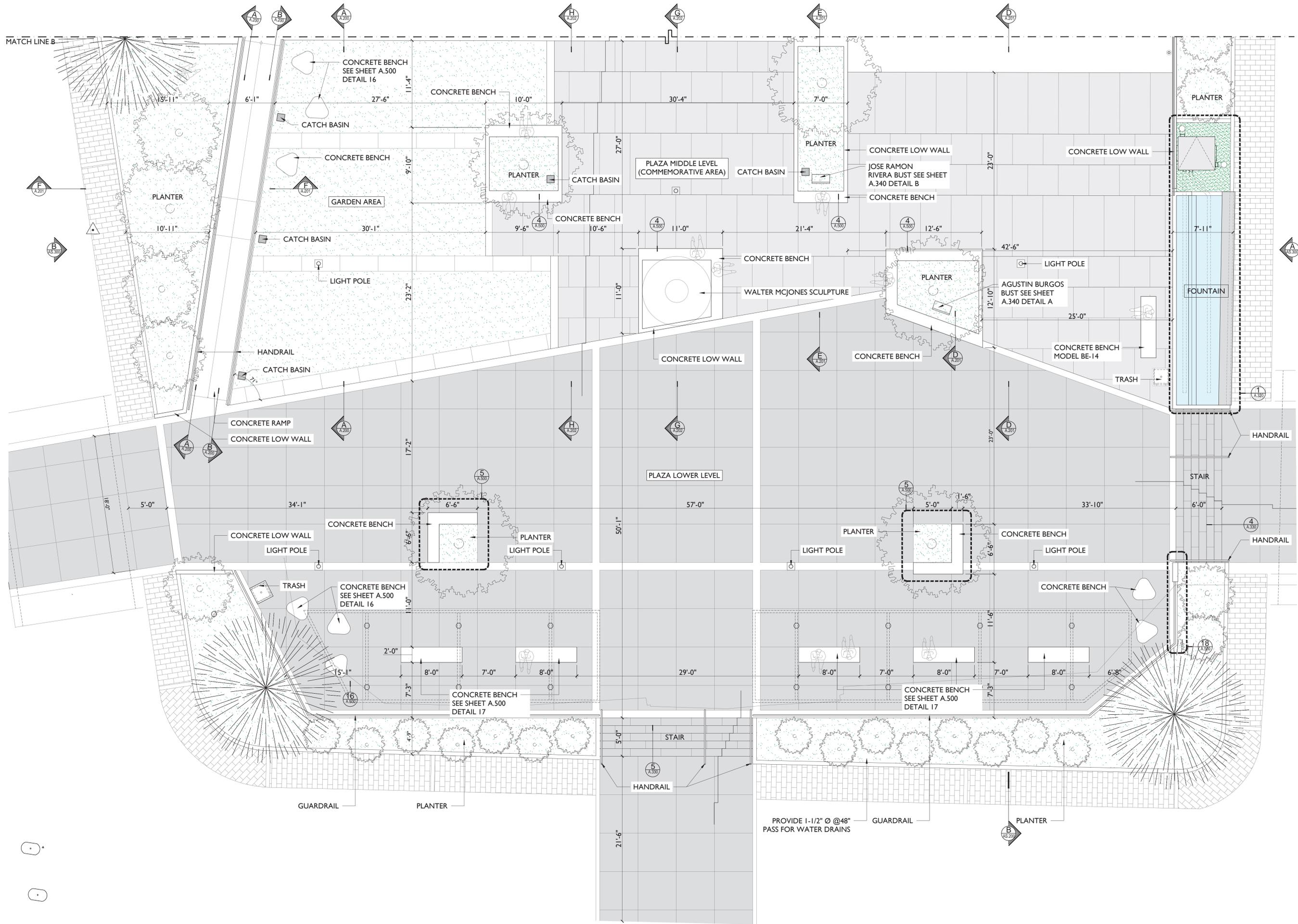
ENLARGE PLAZA UPPER LEVEL FLOOR PLAN  
SHEET TITLE

A-100 SHEET NO.



**PROPOSED UPPER LEVEL PLAZA FLOOR PLAN**  
SCALE 3/16" = 1'-0"





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CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

REVISION	CONSTRUCTION PHASE	PROJECT PHASE

ENLARGE PLAZA LOWER LEVEL FLOOR PLAN

A-101 SHEET NO.



PROPOSED LOWER LEVEL PLAZA FLOOR PLAN  
SCALE 3/16" = 1'-0"





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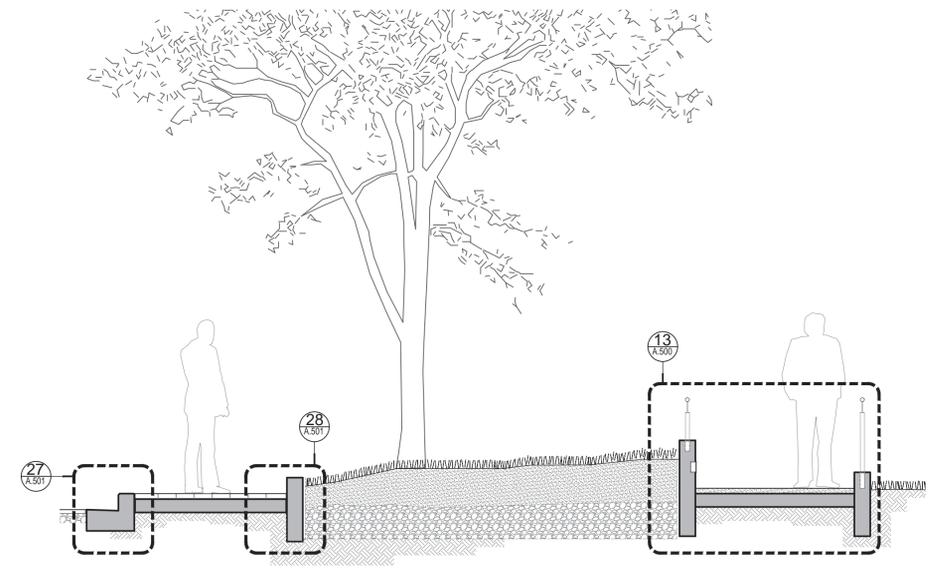
**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
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48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

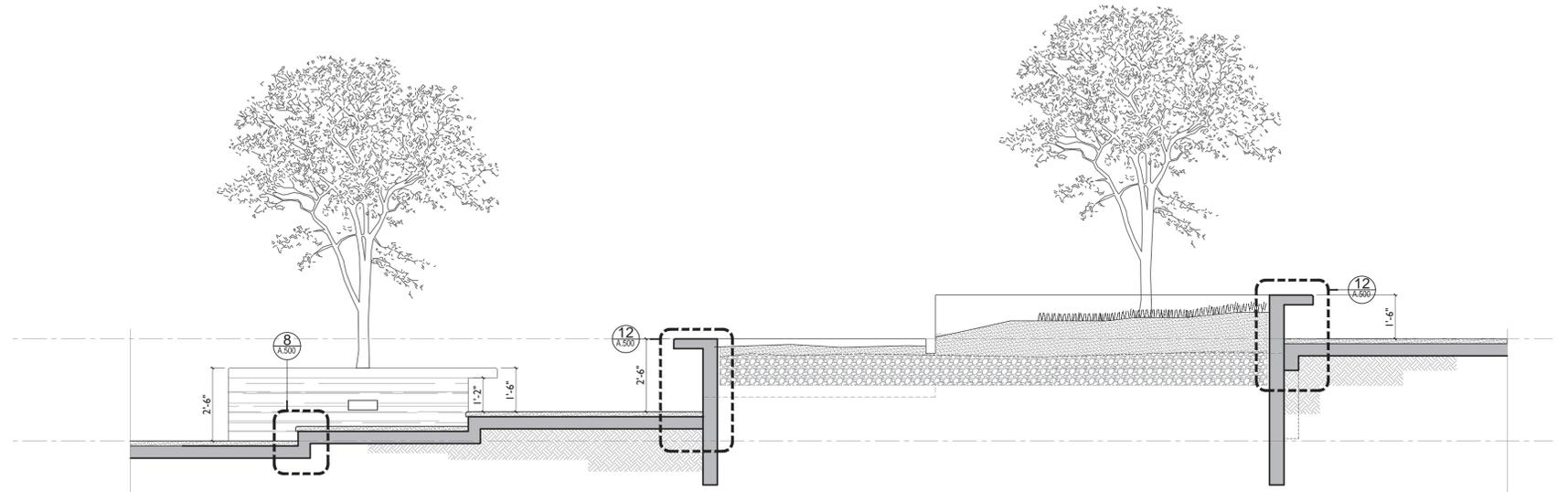
REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

SITE SECTIONS  
SHEET TITLE

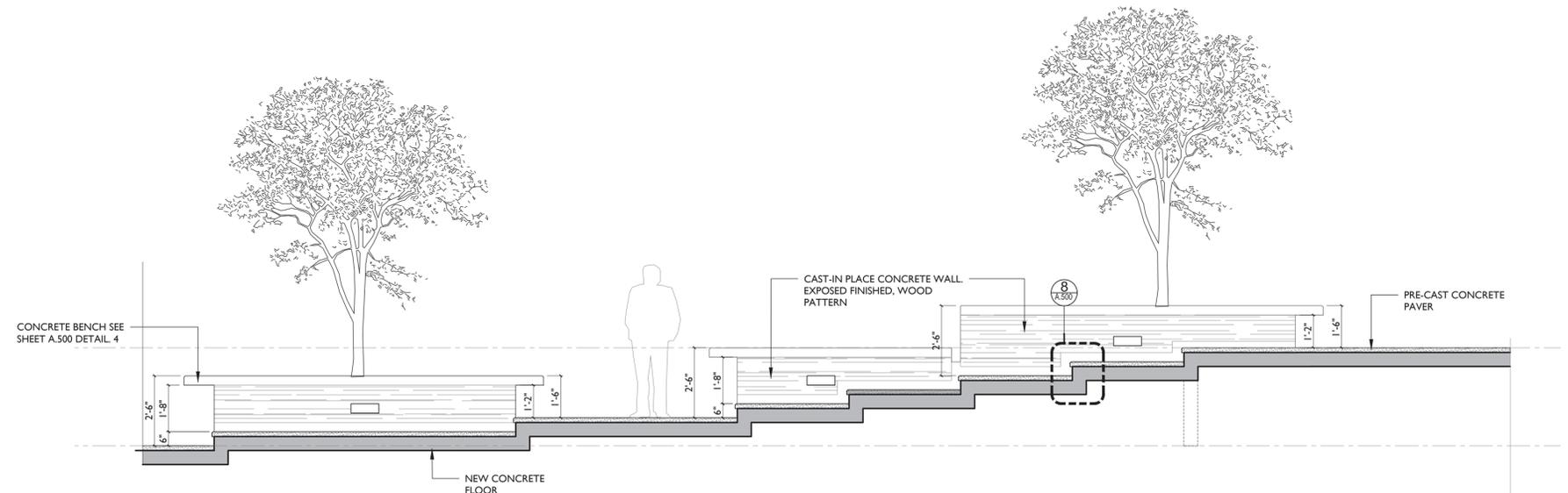
A-201 SHEET NO.



**PROPOSED PLAZA SECTION- F**  
SCALE 1/2" = 1'-0"



**PROPOSED PLAZA SECTION- E**  
SCALE 1/2" = 1'-0"



**PROPOSED PLAZA SECTION- D**  
SCALE 1/2" = 1'-0"

CERTIFICACION

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**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
**CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

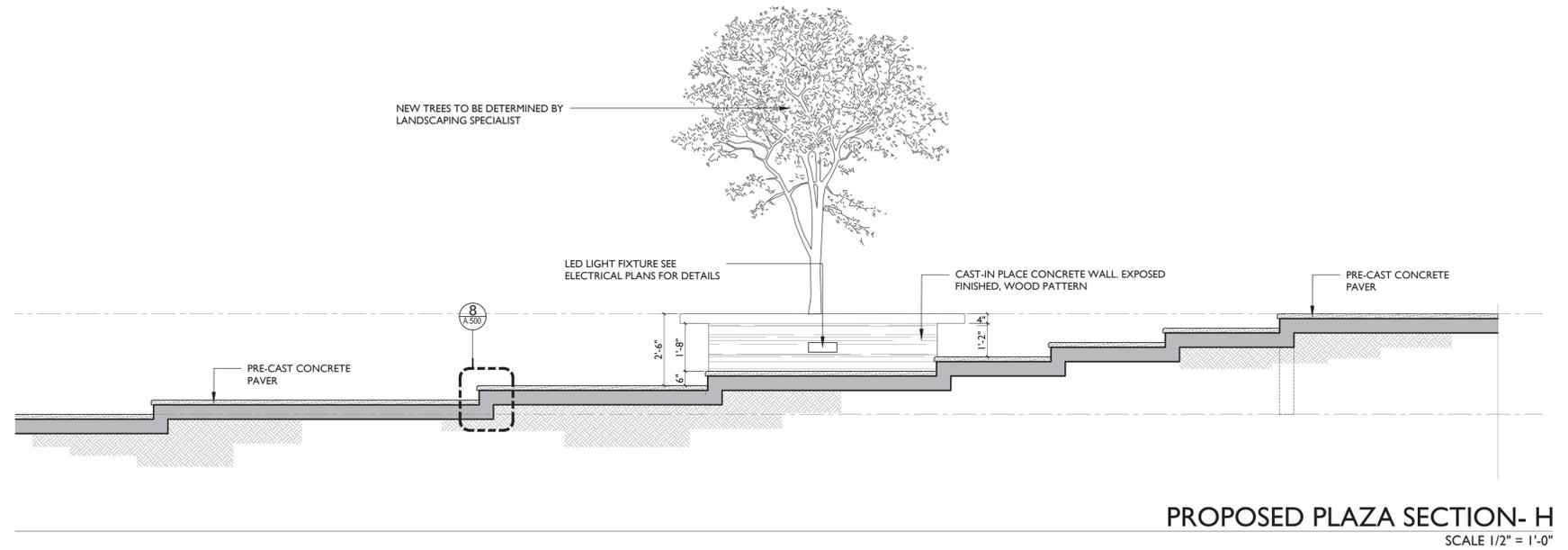
MUNICIPIO VILLALBA

OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 26, 2024 PRINTING DATE  
 CJO DRAWN / APPROVED

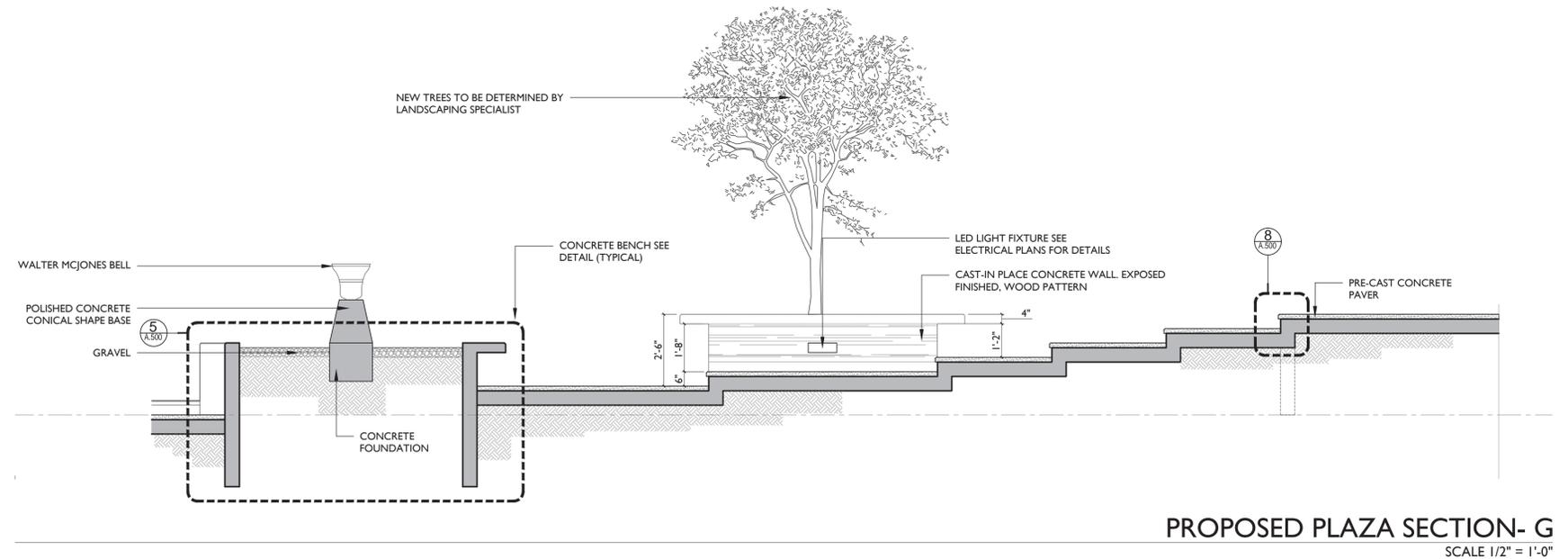
REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

SITE SECTIONS  
 SHEET TITLE

A-202  
 SHEET NO.



**PROPOSED PLAZA SECTION- H**  
 SCALE 1/2" = 1'-0"

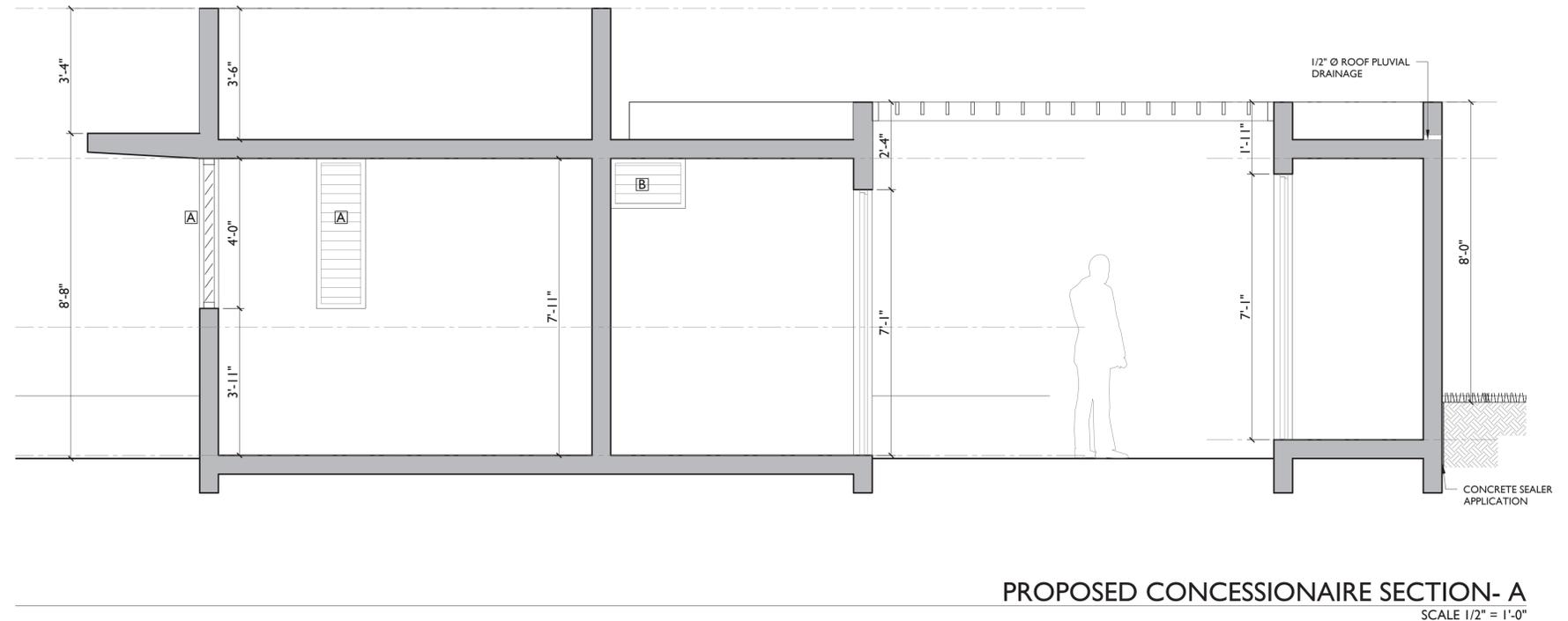
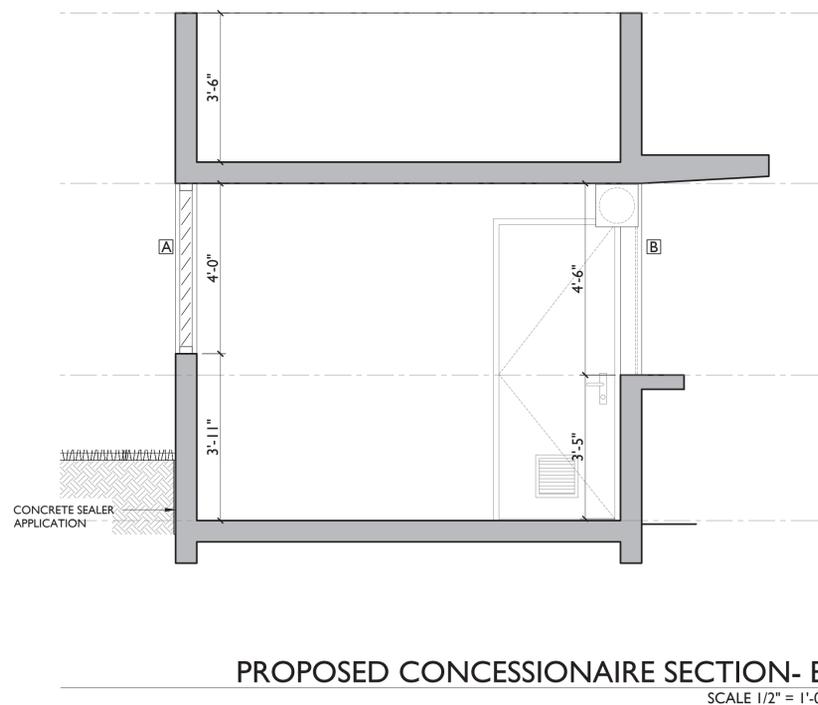
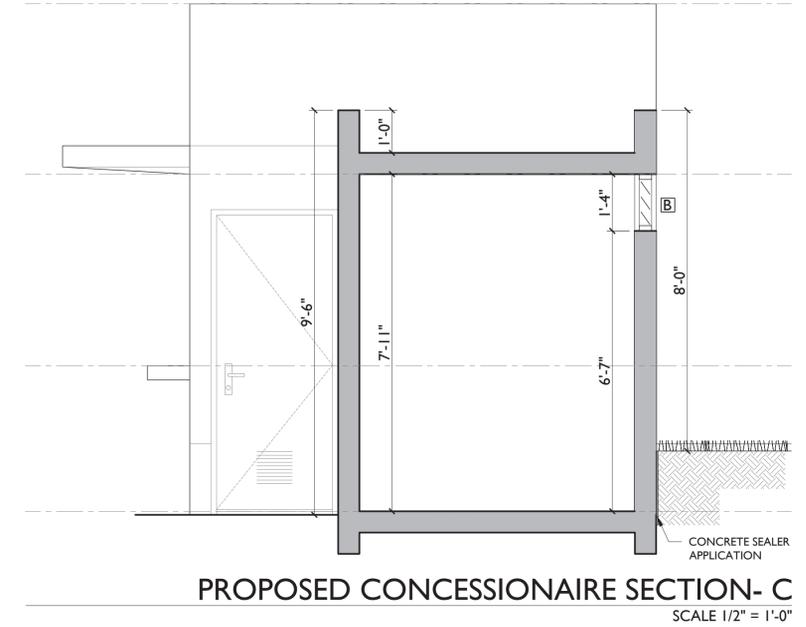
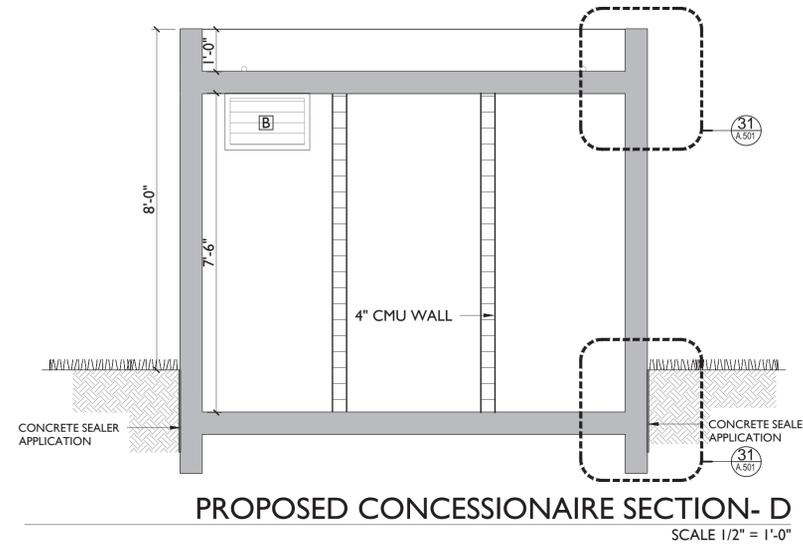


**PROPOSED PLAZA SECTION- G**  
 SCALE 1/2" = 1'-0"



**FLOOR FINISH LEGEND:**

1. EXPOSED CONCRETE FINISH
2. SMOOTH CEMENT PLASTER & PAINT FINISH
3. 1/2" RECESSED WALL BASE POLISH CEMENT FINISH
4. FLOOR PAVER FINISH
5. CONCRETE CEMENT TOP POLISH CEMENT FINISH
6. PLANTER AREA
7. TRELLIS SEE SHEET
8. METAL DOOR AS PER SHEET



**CERTIFICACION**  
Yo, CARLOS J. QUIÑONES MAYM, INGENIERO LICENCIADO 18892, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de la Agencia, Junta Reglamentadora o Corporaciones Públicas con jurisdicción.

Reconozco que cualquier declaración falsa o falsificación de los hechos que se han producido sin conocimiento o por negligencia y a mi por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPe.

**BID SET**

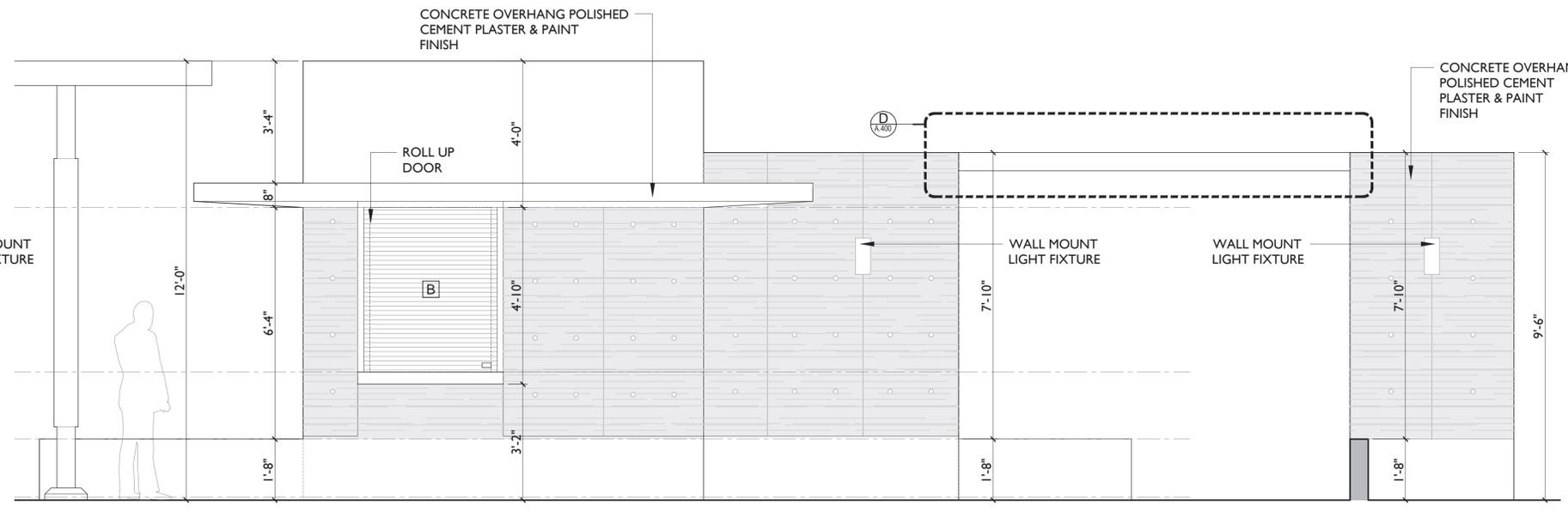
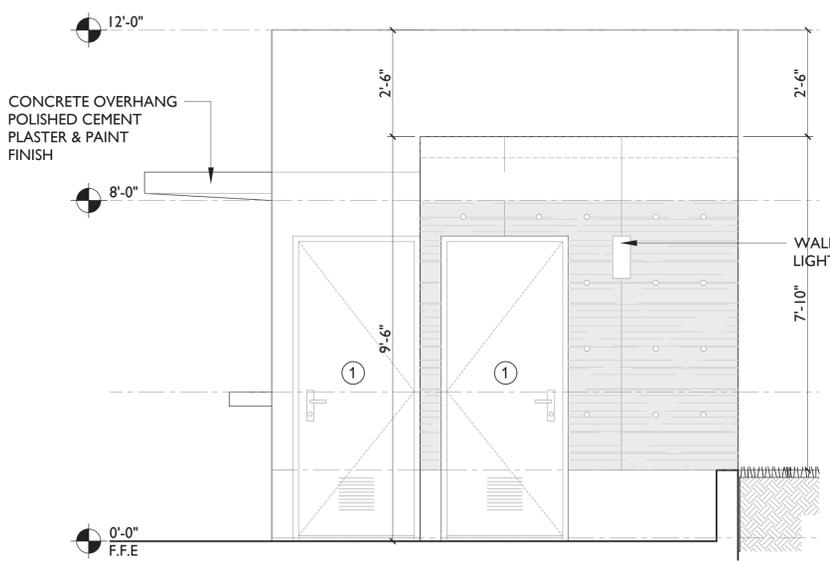
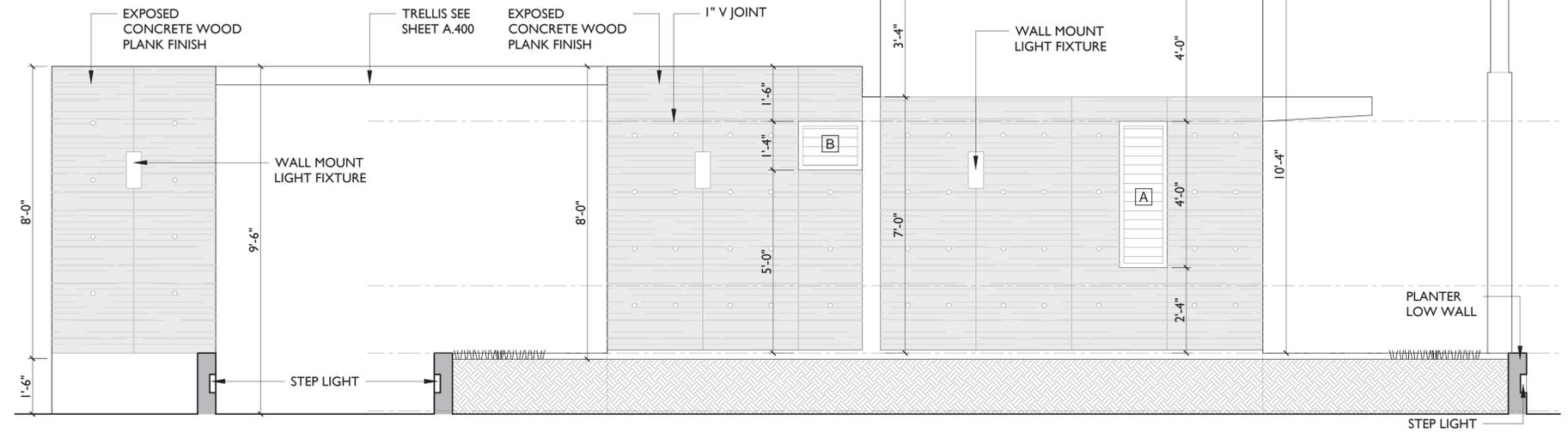
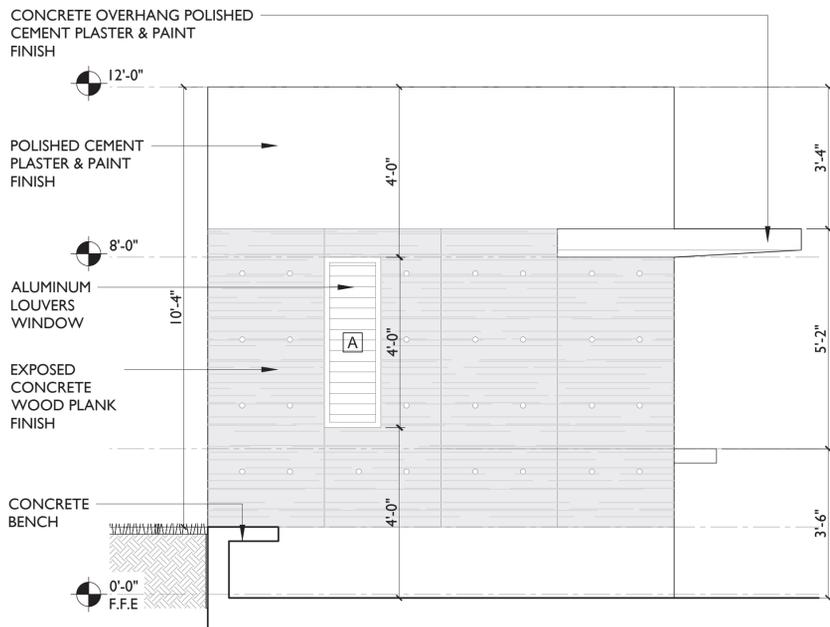
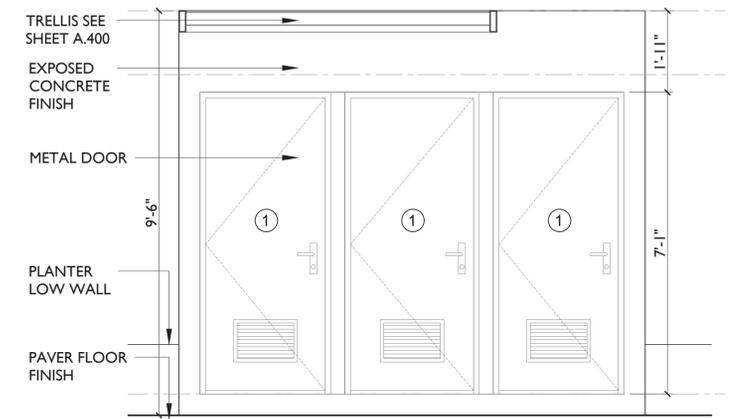
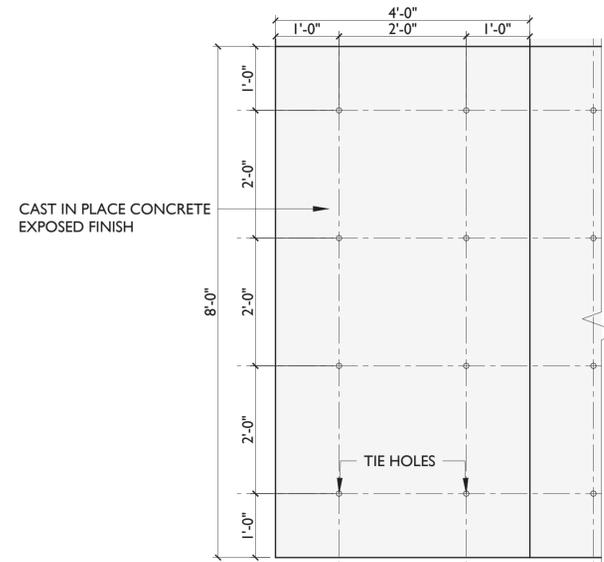
**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJO DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

CONCESSIONAIRE SECTION  
SHEET TITLE

A-301 SHEET NO.



PROPOSED CONCESSIONAIRE ELEVATION-D  
 SCALE 1/2" = 1'-0"

PROPOSED CONCESSIONAIRE ELEVATION-C  
 SCALE 1/2" = 1'-0"

PROPOSED CONCESSIONAIRE ELEVATION-B  
 SCALE 1/2" = 1'-0"

PROPOSED CONCESSIONAIRE ELEVATION-A  
 SCALE 1/2" = 1'-0"

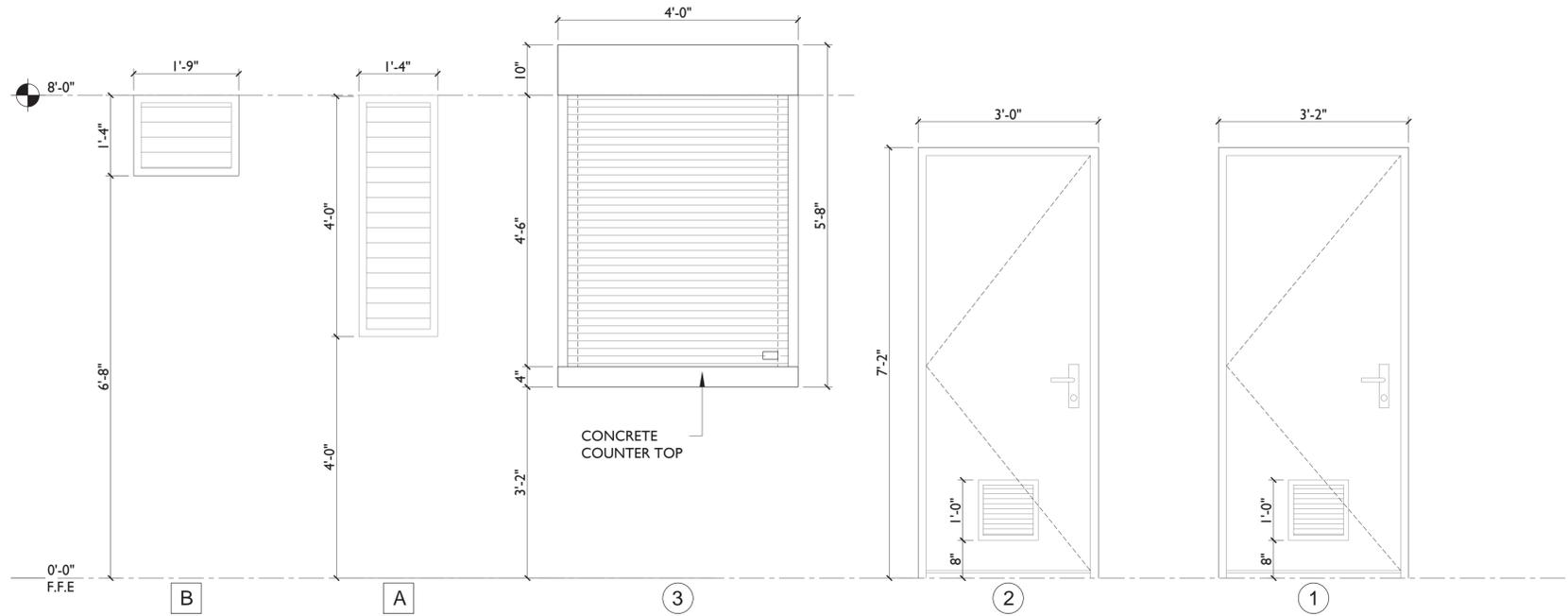
**LEGEND:**

- P-1. LAVATORY
- P-2. WATER CLOSET (TOILET)
- P-3. URINAL
- B-1. SOAP DISPENSER
- B-2. MIRROR
- B-3. SANITARY PAPER DISPENSER
- B-4. ELECTRIC HAND DRYER
- B-5. 30" GRAB BARS
- B-6. 36" GRAB BARS
- B-7. NEW STEEL FLOOR DRAIN BY SMITH OR SIMILAR.

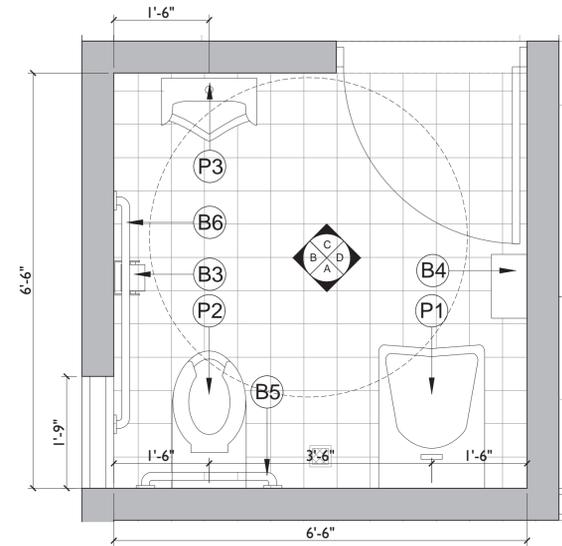
- 1. 12"x24" WALL TILE TO BE SELECTED BY OWNER.
- 2. PRIMER AND PAINT FINISH CEILING
- 3. ALUMINUM TILE EDGING - SATIN SILVER 3/8" X 8' X 2 1/2"
- 4. PRIMER AND PAINT FINISH COLOR TO BE SELECTED BY OWNER

DOOR SCHEDULE							
DOOR ID	WALL OPENING		DOORS PER OPENING	MATERIAL	FRAME	HARDWARE	NOTES
	WIDTH	HEIGHT			MATERIAL	ALL HARDWARE WILL BE STAINLESS STEEL SATIN FINISHED -INSTALL DOOR STOP ON EVERY DOOR CONDITION-	
1	3'-0"	7'-2"	1	HOLLOW METAL W/ LOUVERS - PAINT FINISH COLOR T.B.D. BY OWNER	METAL JAMB - PAINT FINISH COLOR T.B.D. BY OWNER	(3) - 4" x 4" STAINLESS STEEL PLAIN BEARING HINGE (1) - MORTISE LEVER LOCKS - MODEL YALE 8800 SERIES	PROVIDE THRESHOLD AS PER SUPPLIER STANDARD RECOMMENDATION / 2HR FIRE RATED
2	3'-2"	7'-2"	1	HOLLOW METAL W/ LOUVERS - PAINT FINISH COLOR T.B.D. BY OWNER	METAL JAMB - PAINT FINISH COLOR T.B.D. BY OWNER	(3) - 4" x 4" STAINLESS STEEL PLAIN BEARING HINGE (1) - MORTISE LEVER LOCKS - MODEL YALE 8800 SERIES	PROVIDE THRESHOLD AS PER SUPPLIER STANDARD RECOMMENDATION / 2HR FIRE RATED
3	4'-0"	5'-8"	1	ROLL-UP DOOR SOLID CURTAIN SLAT	ALUMINUM OR METAL T.B.D.	REQUIRES ELECTRICITY FOR OPERATION.	SEE DRAWINGS FOR DIMENSIONS REFERENCES.

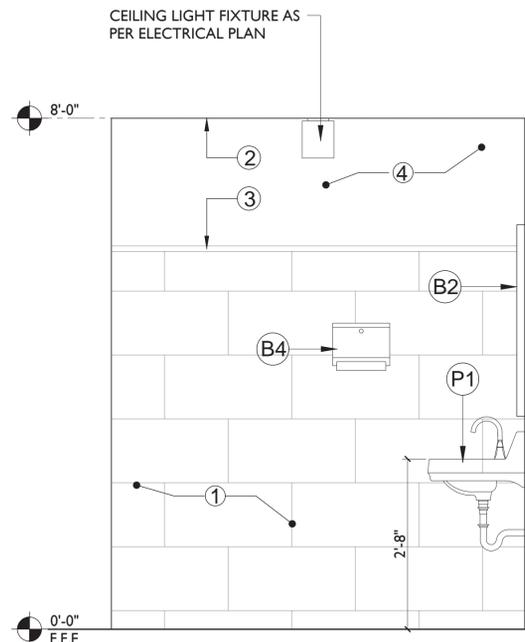
WINDOW SCHEDULE							
ID	WALL OPENING		SYSTEM	MATERIAL	FRAME MATERIAL	HARDWARE	NOTES
	WIDTH	HEIGHT					
A	1'-4"	4'-0"	JALOUSIE SECURITY WINDOW SLATS OF 4"	9/16" LAMINATED / TEMPERED SECURITY GLASS	ALUMINUM ANODIZED FINISH	AS PER SPECIFIC REQUIREMENTS BY SUPPLIER	
B	1'-9"	1'-4"	JALOUSIE SECURITY WINDOW SLATS OF 4"	9/16" LAMINATED / TEMPERED SECURITY GLASS	ALUMINUM ANODIZED FINISH	AS PER SPECIFIC REQUIREMENTS BY SUPPLIER	



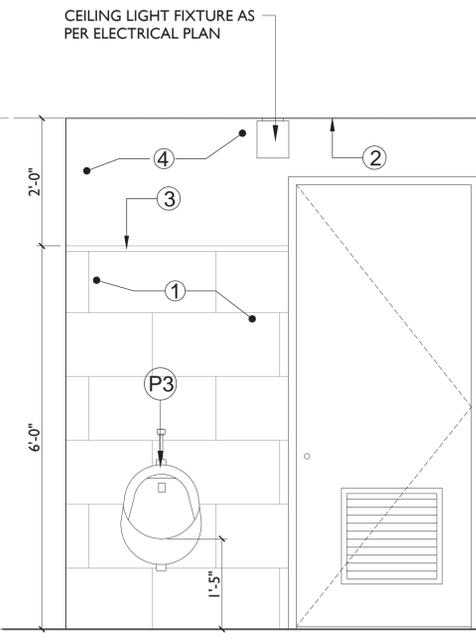
**DOORS & WINDOWS**  
SCALE 3/4" = 1'-0"



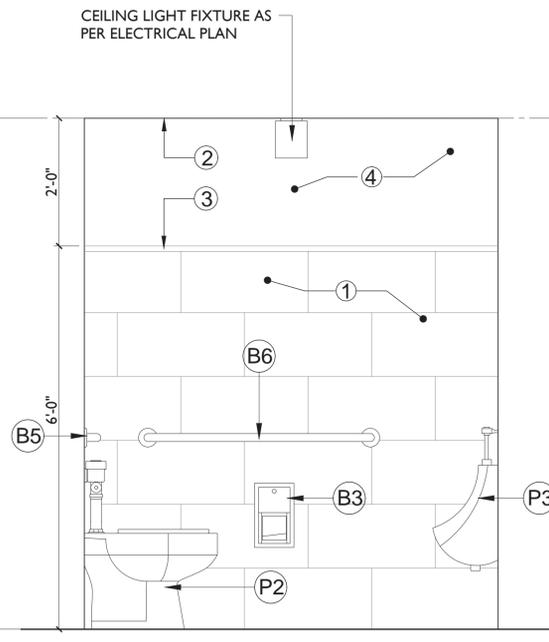
**RESTROOM FLOOR PLAN**  
SCALE 3/4" = 1'-0"



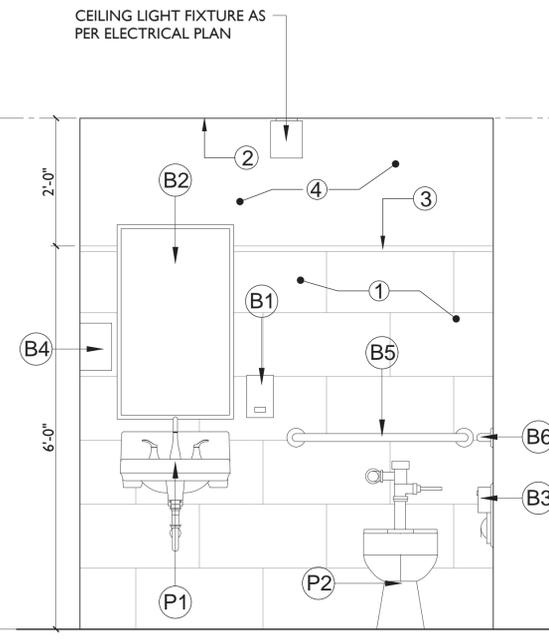
**RESTROOM ELEVATION -D**  
SCALE 3/4" = 1'-0"



**RESTROOM ELEVATION -C**  
SCALE 3/4" = 1'-0"



**RESTROOM ELEVATION -B**  
SCALE 3/4" = 1'-0"



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



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CERTIFICACION  
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**BID SET**

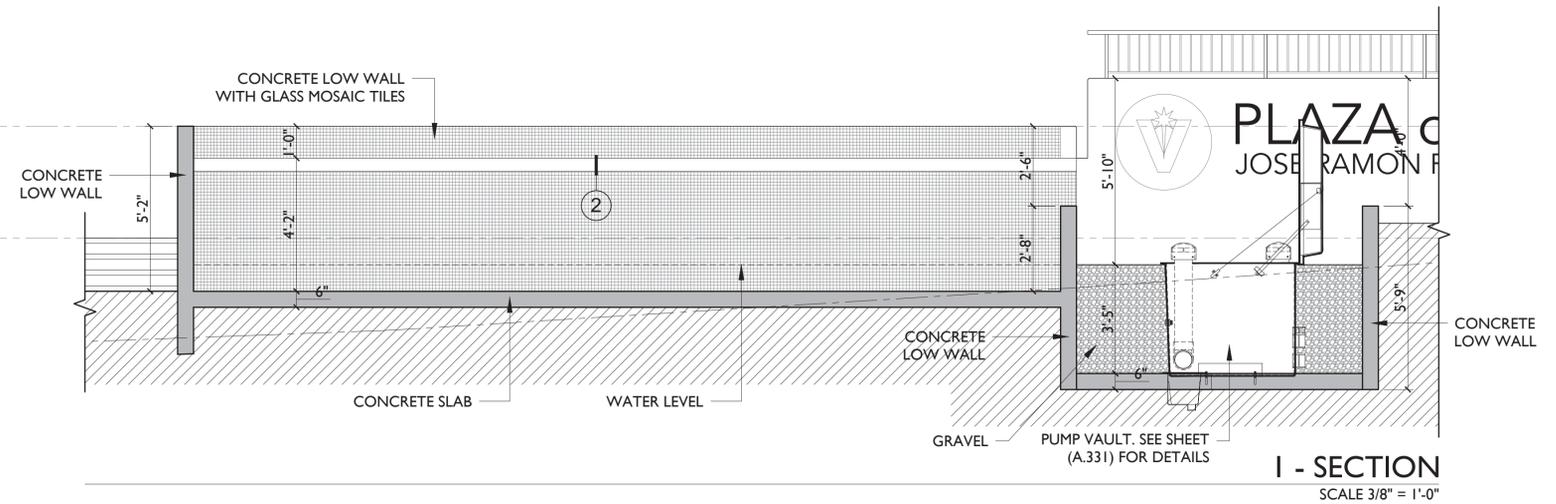
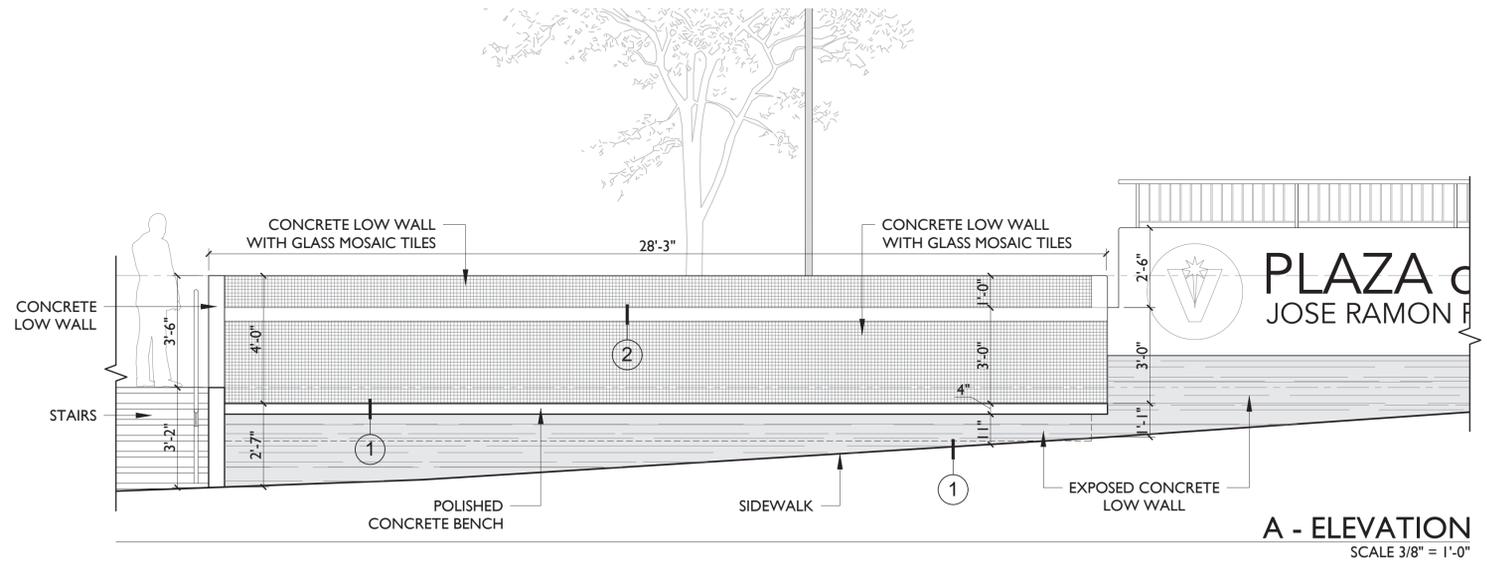
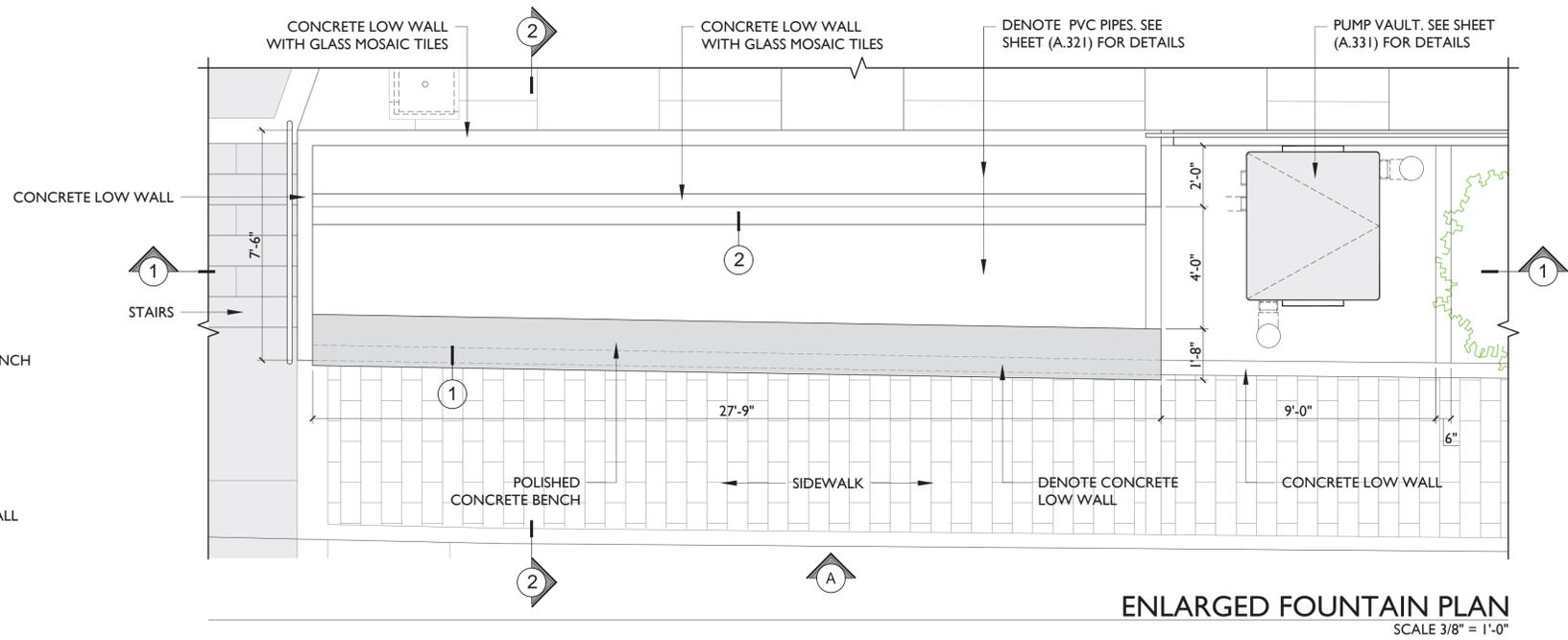
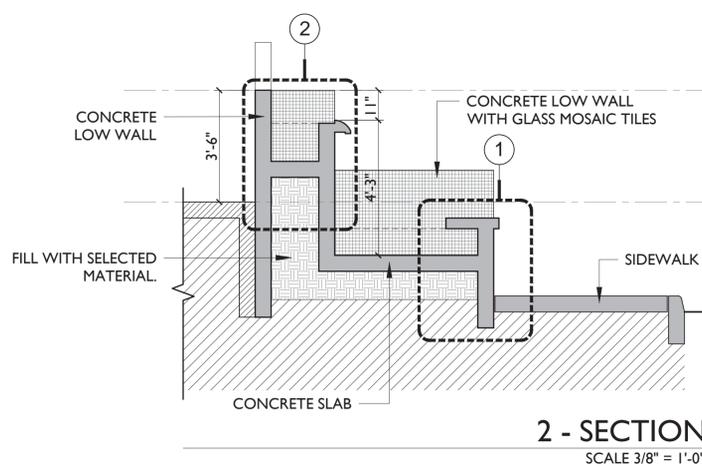
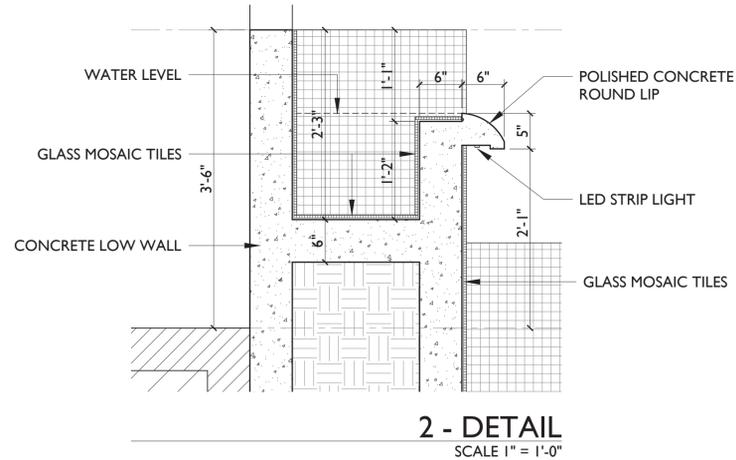
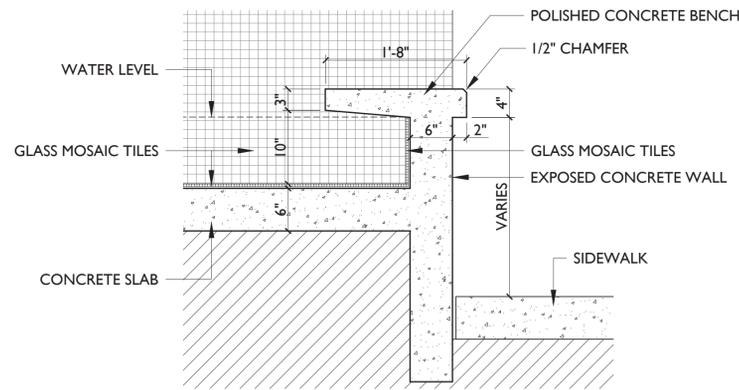
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE PROJECT PHASE

FOUNTAIN ENLARGE PLAN SHEET TITLE

A-320 SHEET NO.







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PROFESSIONAL CONSULTANT

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**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA OWNER

48-2022 PROJECT NUMBER

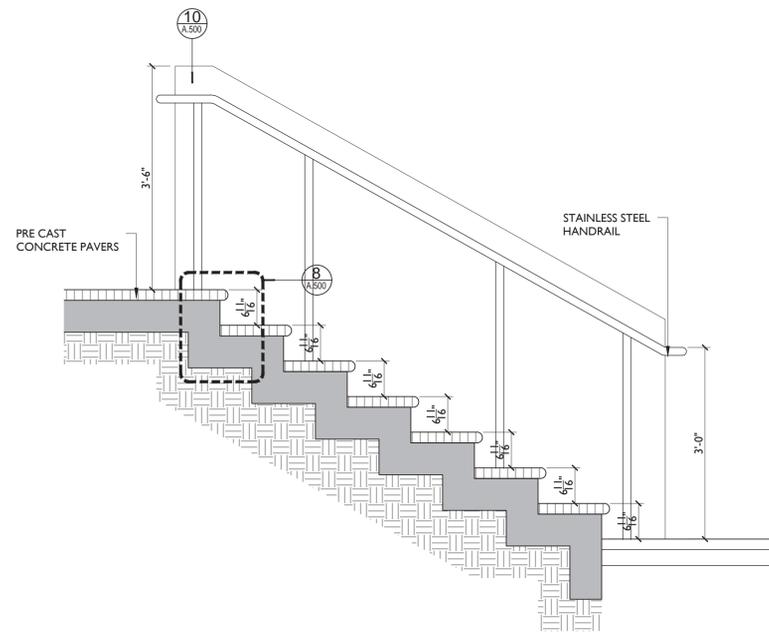
JANUARY 26, 2024 PRINTING DATE

CJO DRAWN / APPROVED

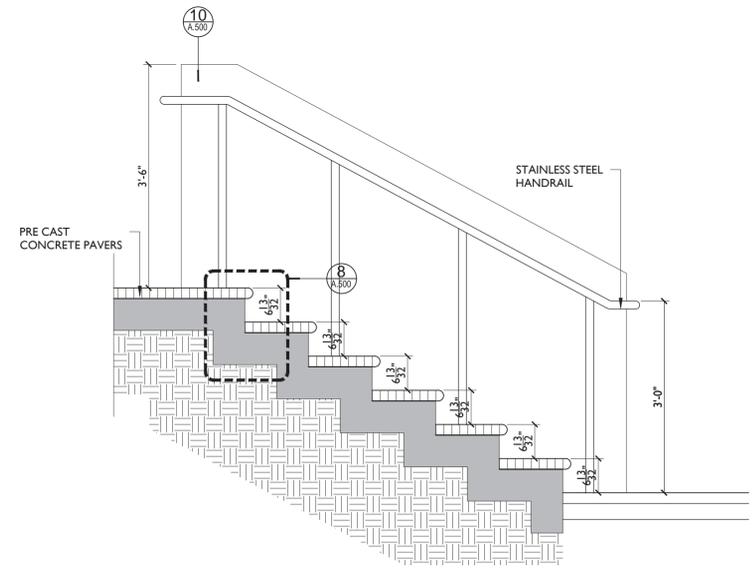
REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

NEW CONCRETE STAIRS SHEET TITLE

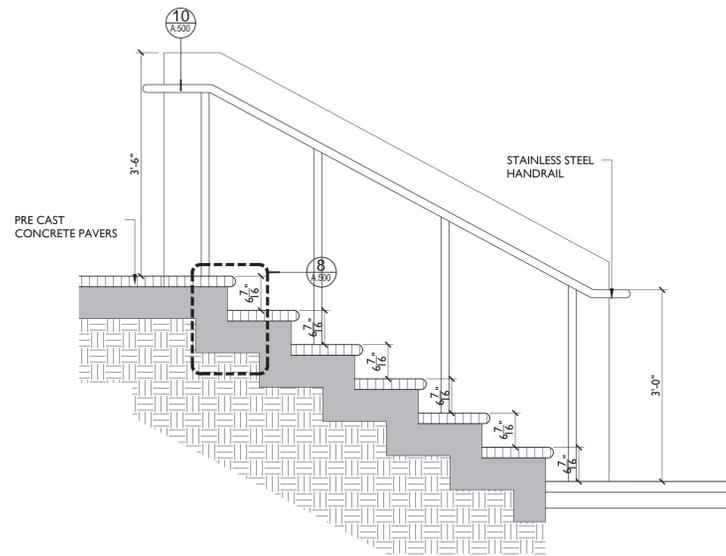
A-330 SHEET NO.



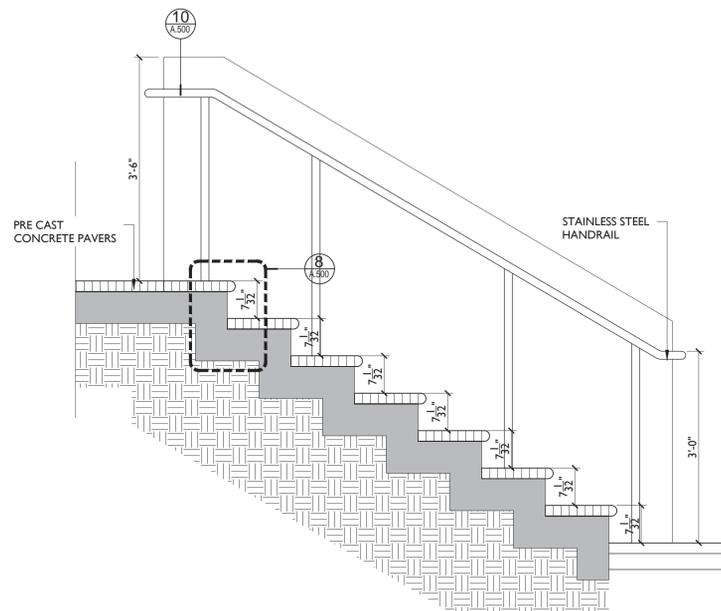
**NEW STAIRS- 4**  
SCALE 3/4" = 1'-0"



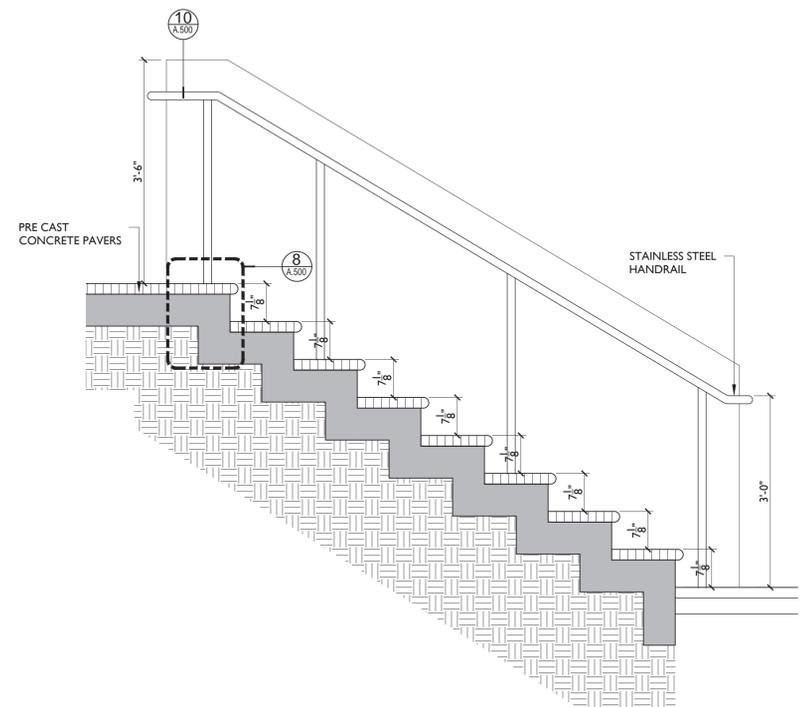
**NEW STAIRS- 2**  
SCALE 3/4" = 1'-0"



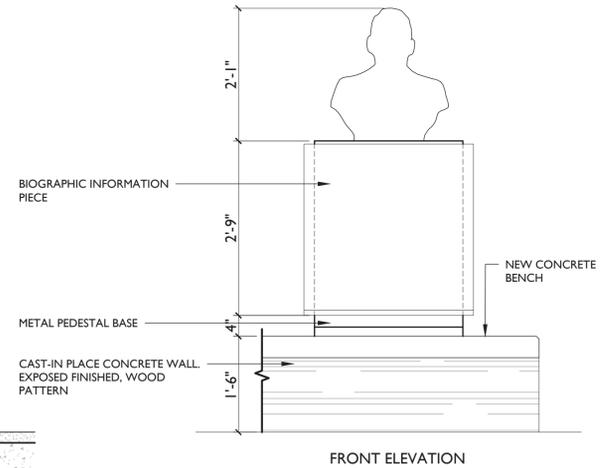
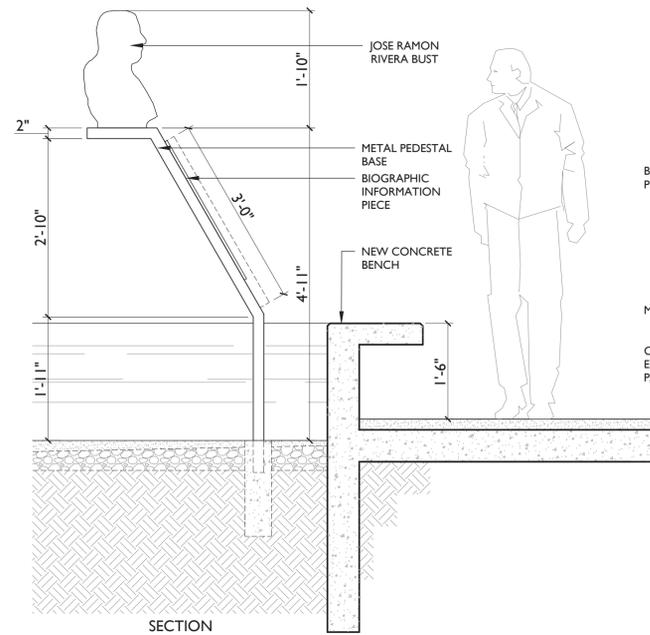
**NEW STAIRS- 5**  
SCALE 3/4" = 1'-0"



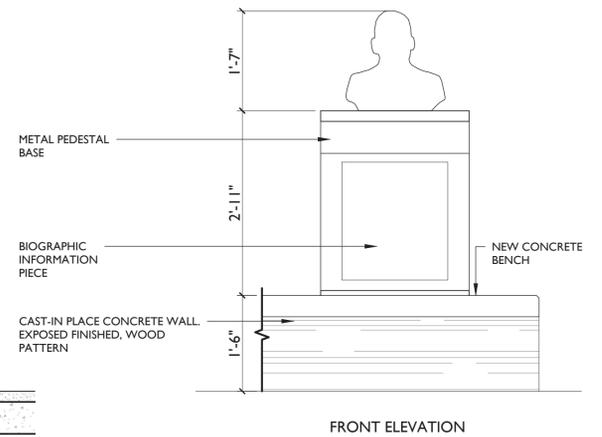
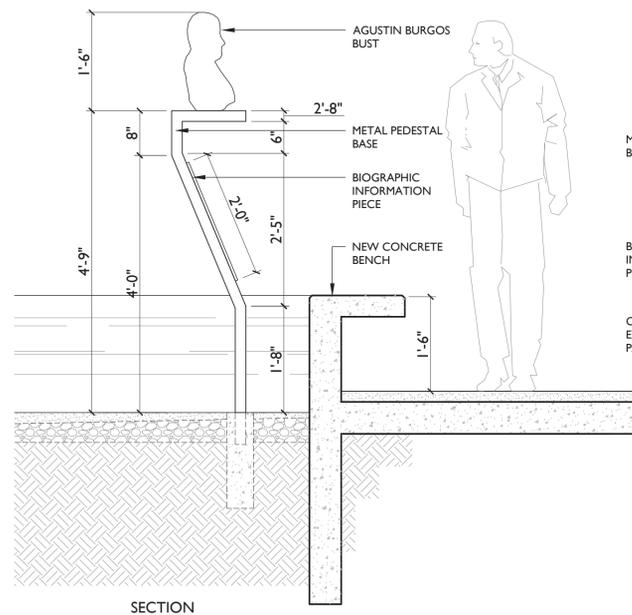
**NEW STAIRS- 3**  
SCALE 3/4" = 1'-0"



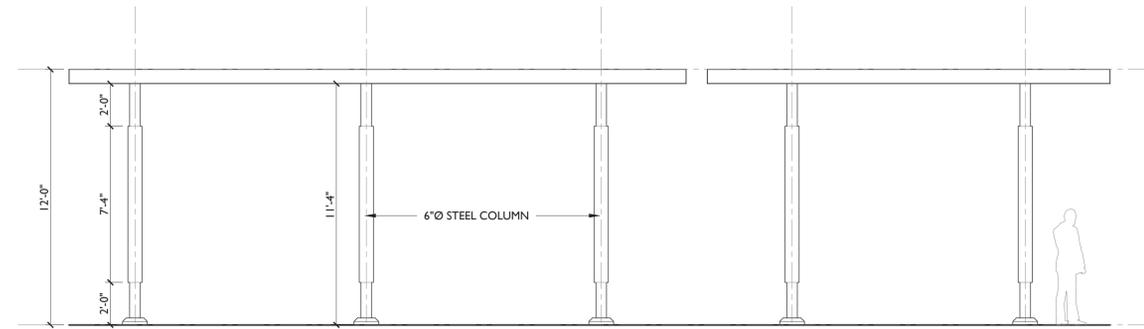
**NEW STAIRS- 1**  
SCALE 3/4" = 1'-0"



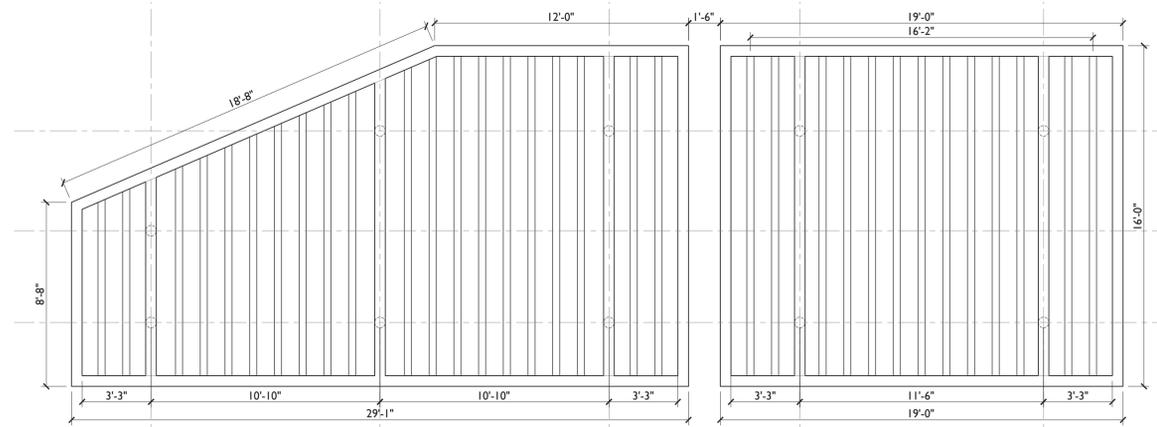
PROPOSED JOSE RAMON FIGUEROA RIVERA BUST- B  
SCALE 3/4" = 1'-0"



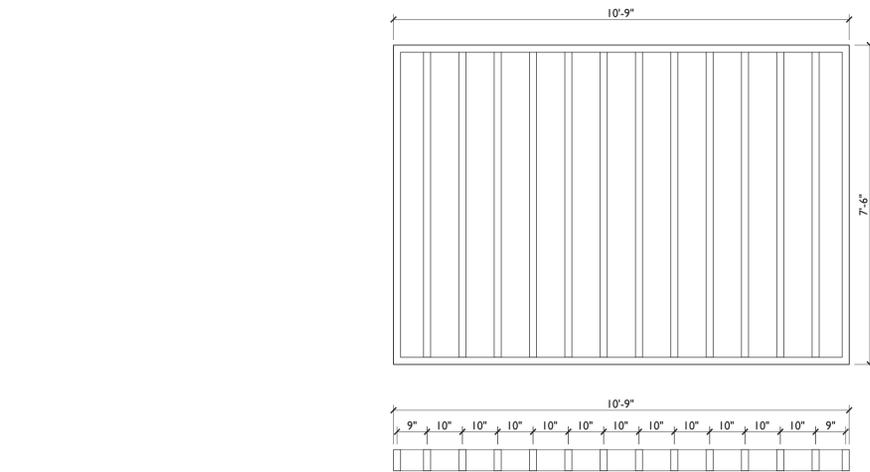
PROPOSED AGUSTIN BURGOS BUST- A  
SCALE 3/4" = 1'-0"



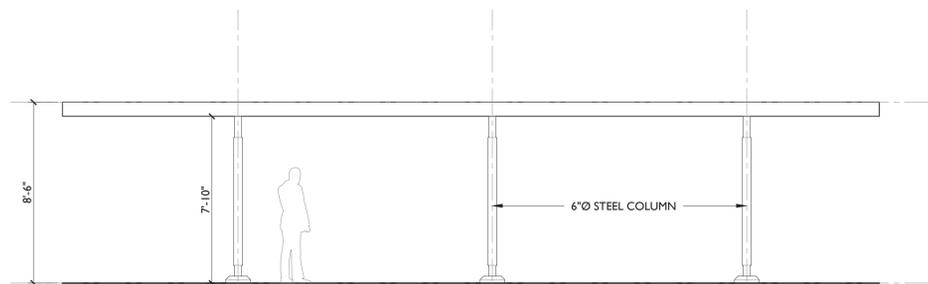
**PROPOSED TRELLIS ELEVATION- C**  
SCALE 1/4" = 1'-0"



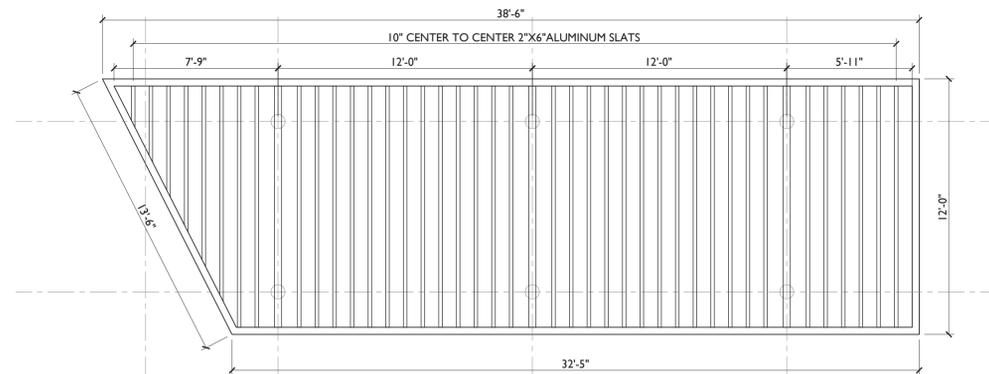
**PROPOSED TRELLIS- C**  
SCALE 1/4" = 1'-0"



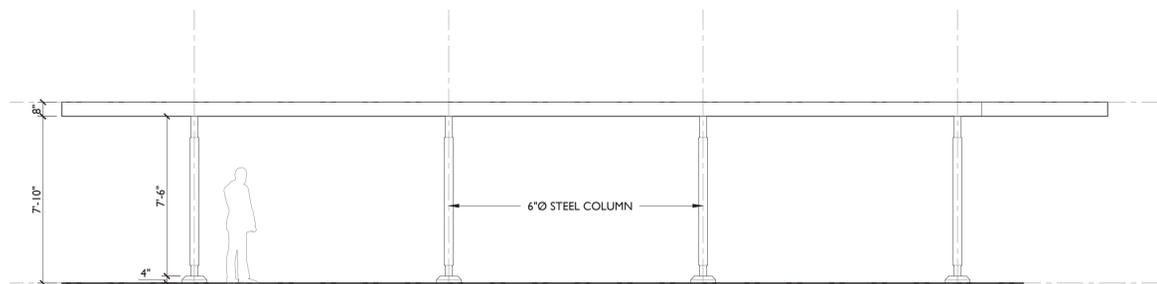
**PROPOSED TRELLIS/PERGOLA -D**  
SCALE 1/2" = 1'-0"



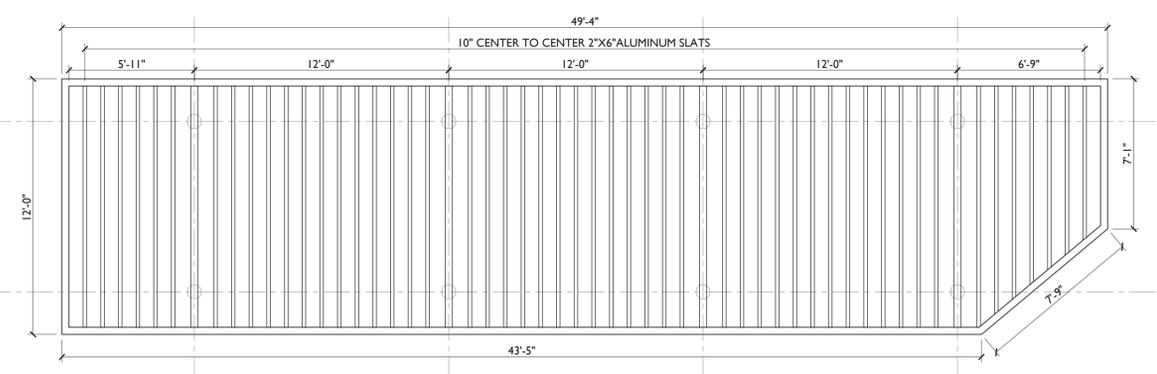
**PROPOSED TRELLIS ELEVATION- B**  
SCALE 1/4" = 1'-0"



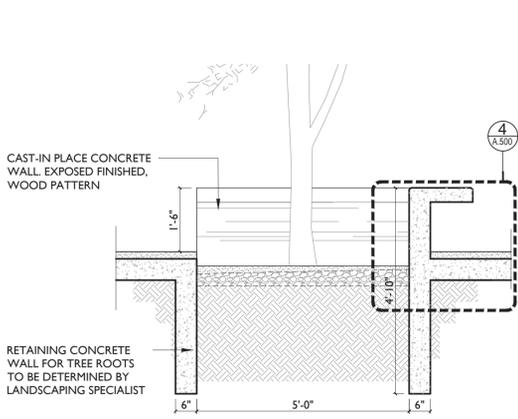
**PROPOSED TRELLIS- B**  
SCALE 1/4" = 1'-0"



**PROPOSED TRELLIS ELEVATION- A**  
SCALE 1/4" = 1'-0"

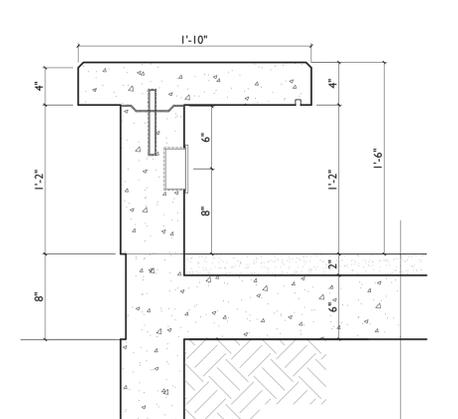


**PROPOSED TRELLIS- A**  
SCALE 1/4" = 1'-0"



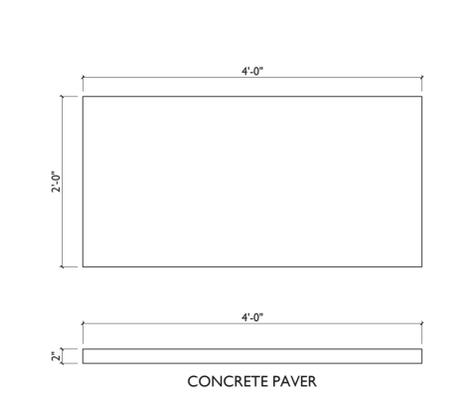
5 TREE PLANTER DETAIL

SCALE: 1"=1'-0"



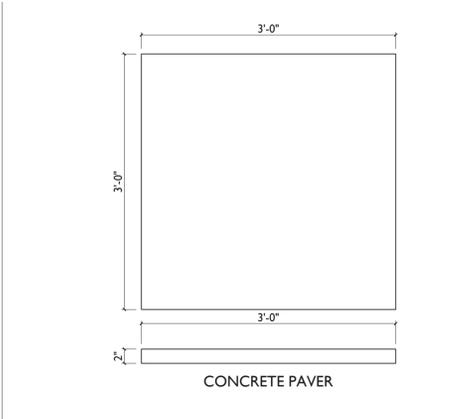
4 CONCRETE BENCH

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



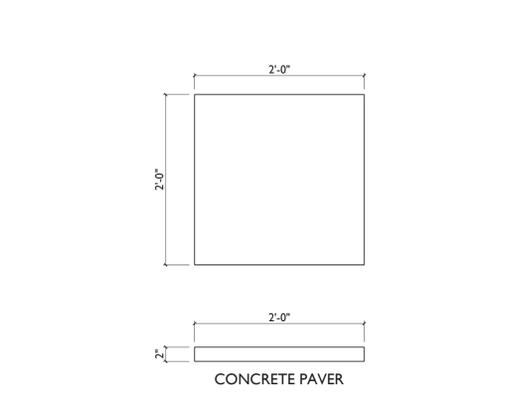
3 (48"X24")

SCALE: 1"=1'-0"



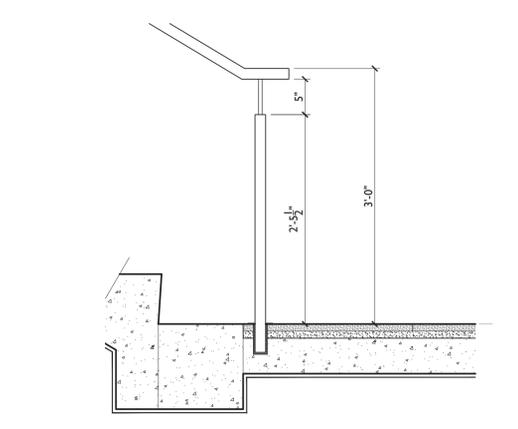
2 PAVER (36"X36")

SCALE: 1"=1'-0"



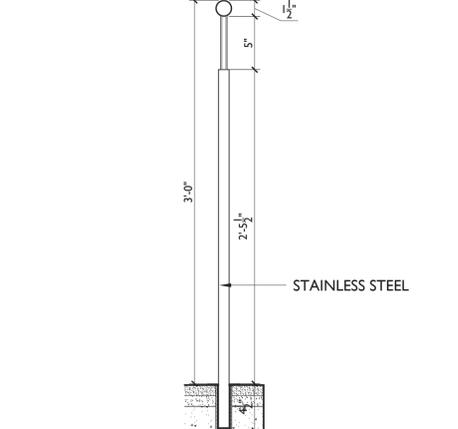
1 PAVER (24"X24")

SCALE: 1"=1'-0"



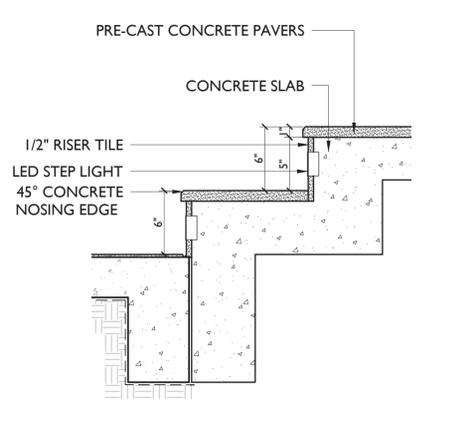
10 STAIR HANDRAIL (TYP. DETAIL)

SCALE: 1"=1'-0"



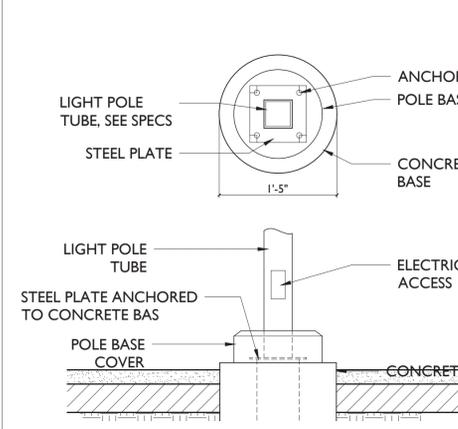
9 HANDRAIL SECTION

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



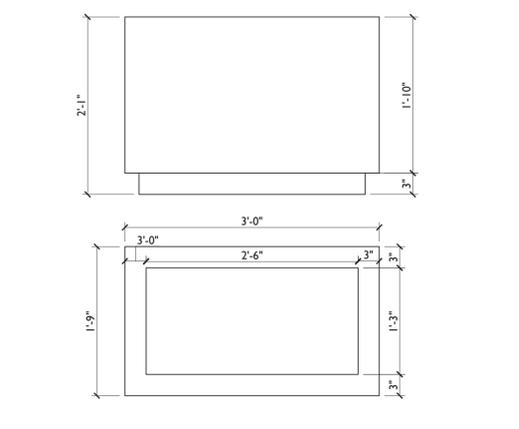
8 STEP NOSING (TYPICAL DETAIL)

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



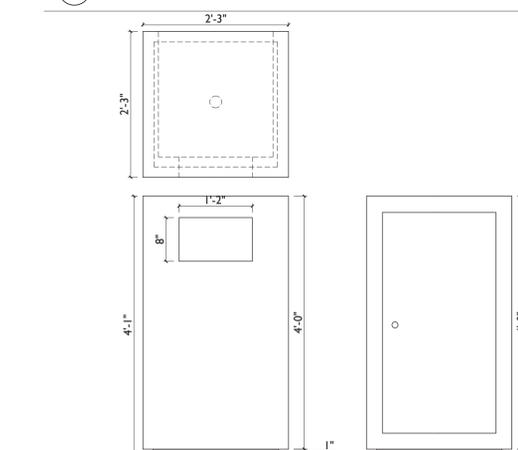
7 LIGHT POLE BASE

SCALE: 1"=1'-0"



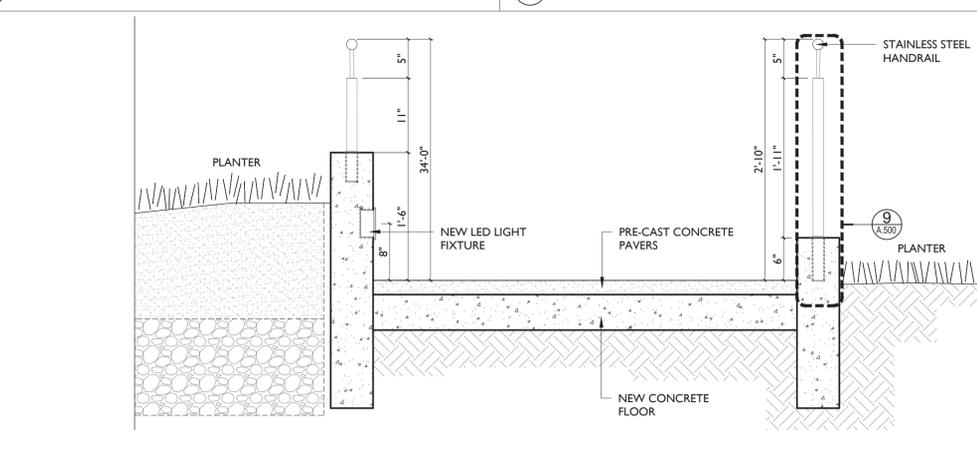
6 TREE GRATE (TYPICAL DETAIL)

SCALE: 1"=1'-0"



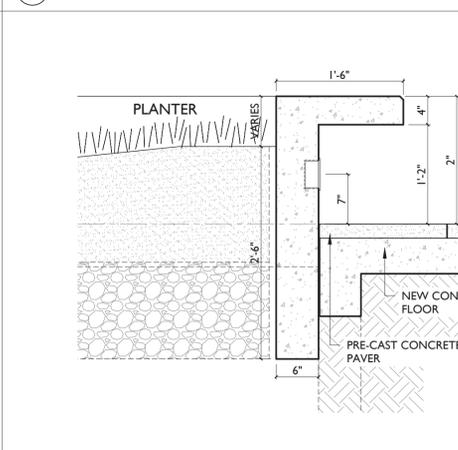
14 TRASH RECEPTACLE (TR-38)

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



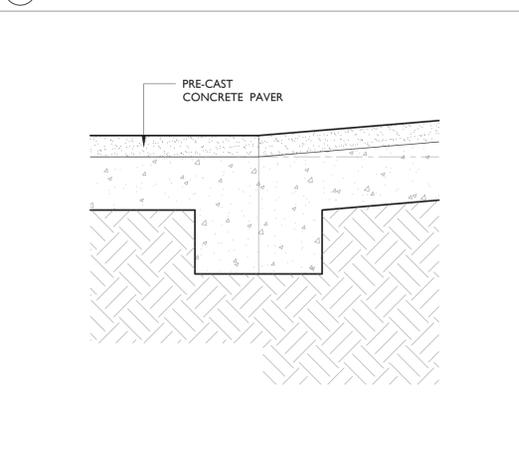
13 HAND RAIL-A

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



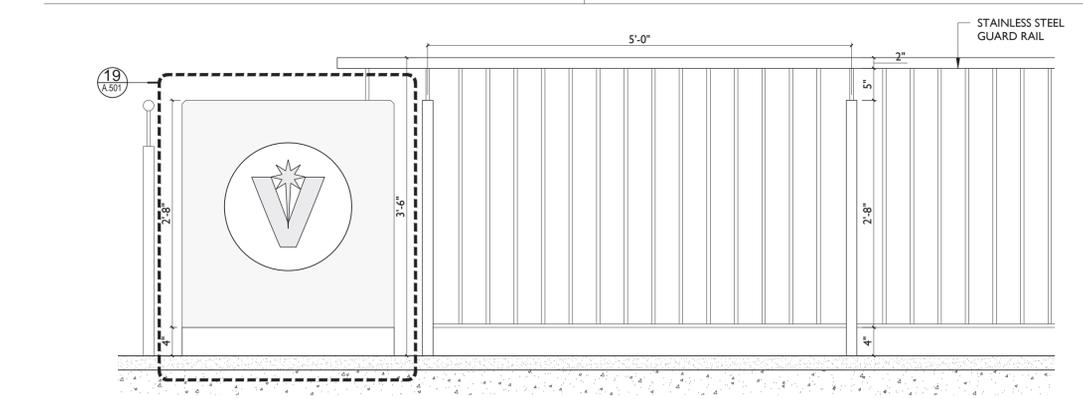
12 CONCRETE BENCH

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



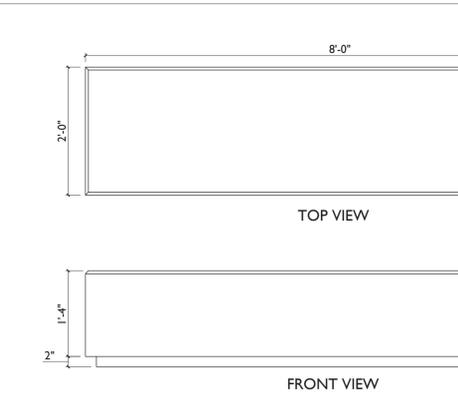
11 CONCRETE PLANTER

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



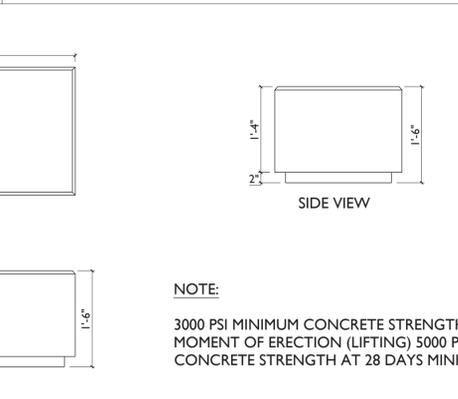
18 CONCRETE BENCH (713 PRECAST CONCRETE BENCH MODEL BE-14)

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



17 CONCRETE BENCH (713 PRECAST CONCRETE BENCH MODEL BE-14)

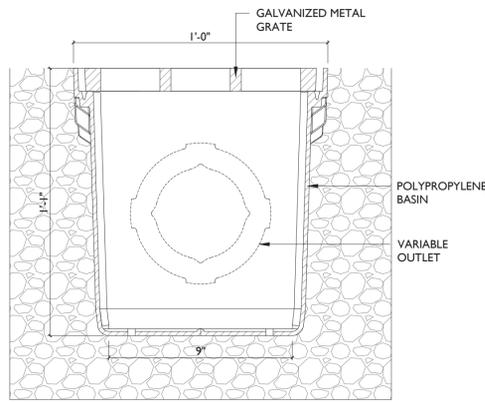
SCALE: 3/4"=1'-0"



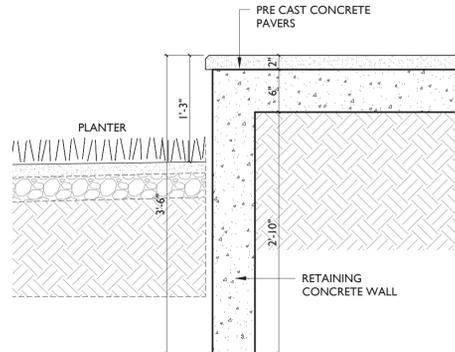
16 CONCRETE BENCH (713 PRECAST)

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

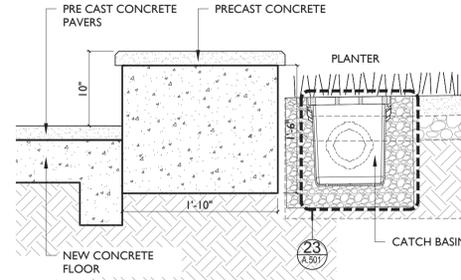
NOTE:  
3000 PSI MINIMUM CONCRETE STRENGTH AT  
MOMENT OF ERECTION (LIFTING) 5000 PSI  
CONCRETE STRENGTH AT 28 DAYS MINIMUM



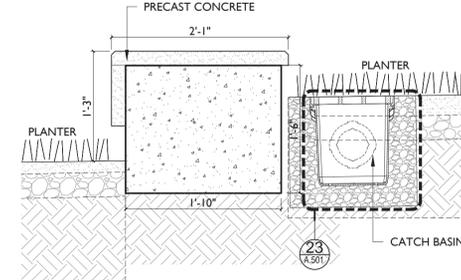
23 CATCH BASIN SCALE: 3/4"=1'-0"



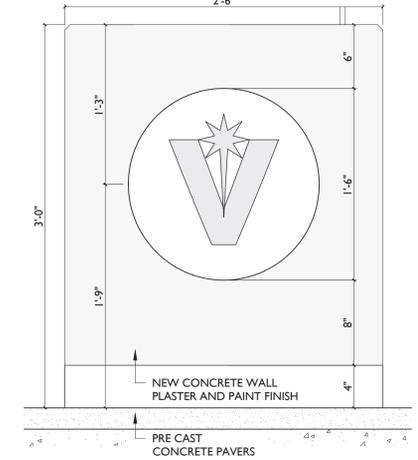
22 CONCRETE BENCH SCALE: 1"=1'-0"



21 CONCRETE BENCH SCALE: 1"=1'-0"



20 CONCRETE BENCH SCALE: 1"=1'-0"



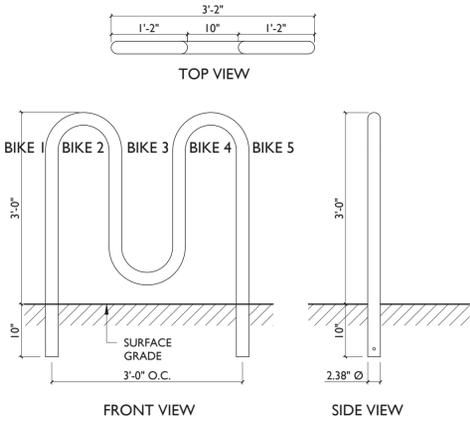
19 VILLALBA EMBLEM (TYP. DETAIL) SCALE: 1-1/2"=1'-0"



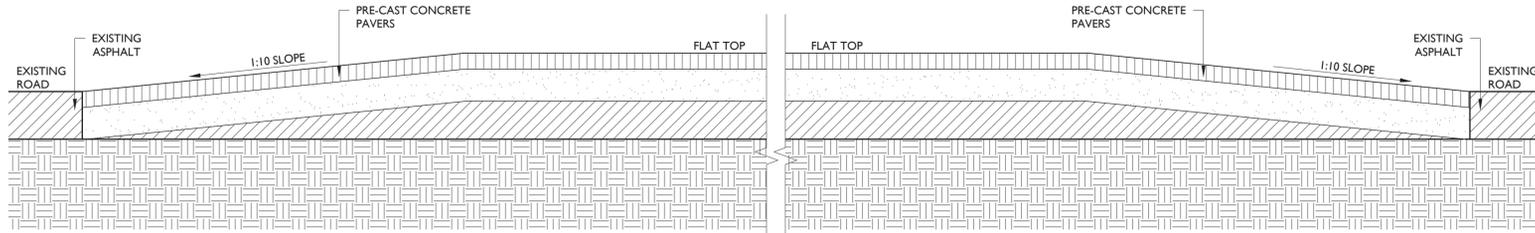
**CERTIFICACION**  
 Yo, CARLOS QUIÑONES MAYM, INGENIERO LICENCIADO 18892, certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción.  
 Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción legal y disciplinaria por la OIGR y otras autoridades competentes, incluyendo pero no limitado a, la terminación de la participación en los procedimientos de certificación profesional en la OIGR.

**BID SET**

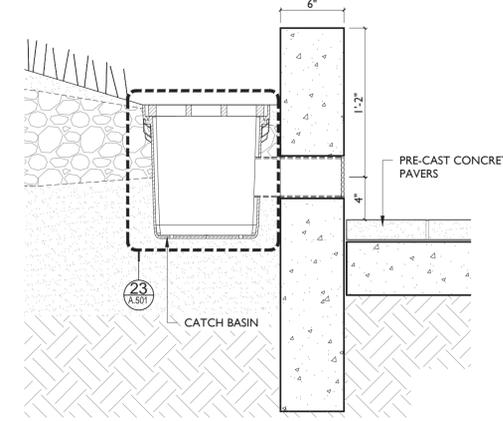
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO



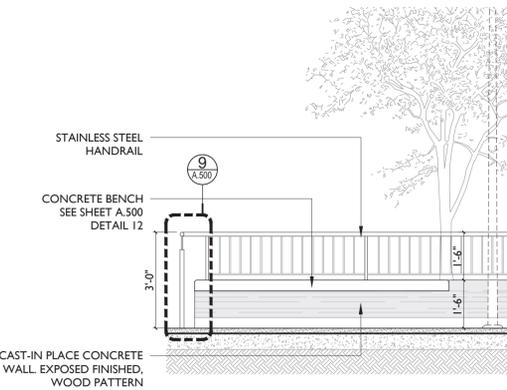
26 BIKE RACK SCALE: 3/4"=1'-0"



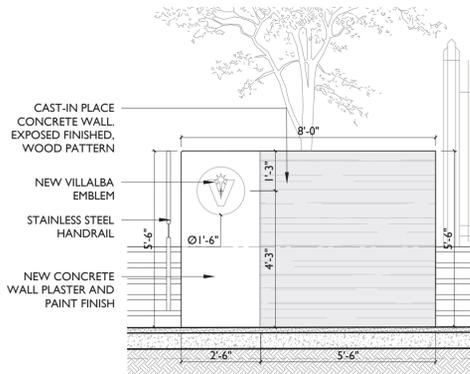
25 SPEED TABLE (TYPICAL DETAIL) SCALE: 3/4"=1'-0"



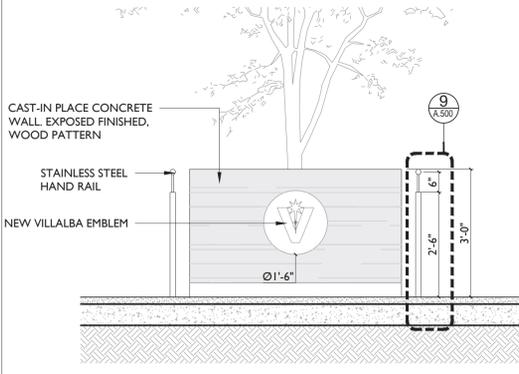
24 PLANTER / SIDEWALK SCALE: 1-1/2"=1'-0"



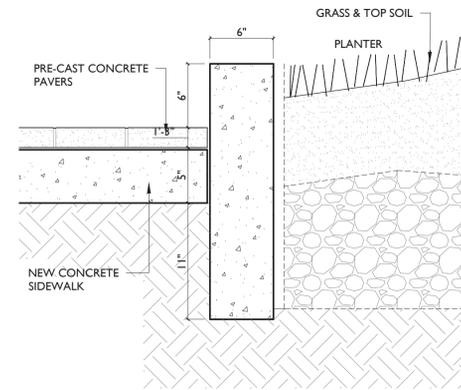
31 CONCRETE WALL & HANDRAIL SCALE: 3/8"=1'-0"



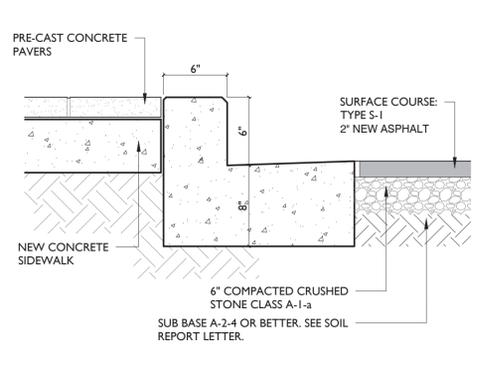
30 CONCRETE WALL W. EMBLEM SCALE: 3/8"=1'-0"



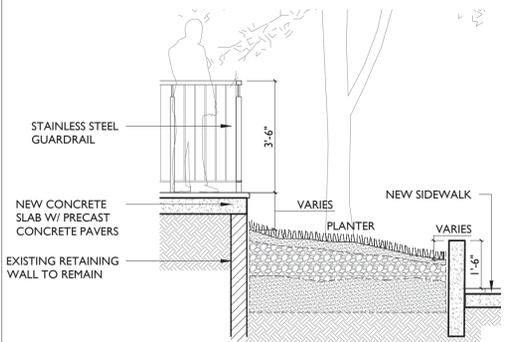
29 CONCRETE PLANTER SCALE: 1/2"=1'-0"



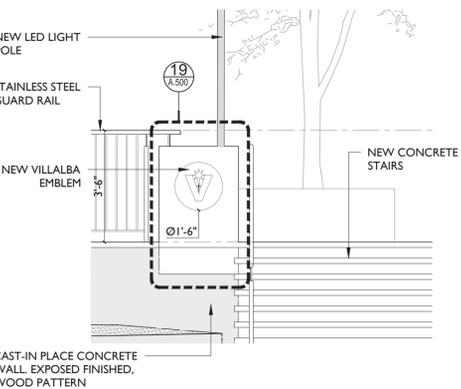
28 CONCRETE SIDEWALK CURB SCALE: 1-1/2"=1'-0"



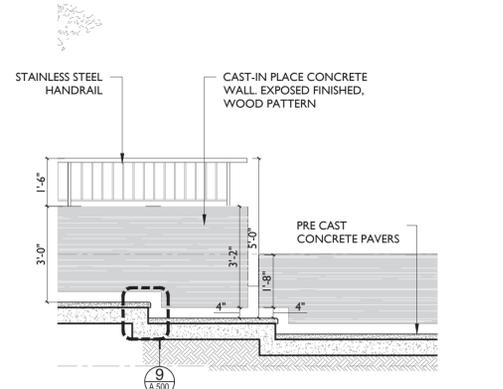
27 CONCRETE CURB SCALE: 1-1/2"=1'-0"



34 PLANTER/SIDEWALK DETAIL SCALE: 3/8"=1'-0"



33 CONCRETE WALL W. EMBLEM SCALE: 3/8"=1'-0"



32 CONCRETE WALL WITH STAIRS SCALE: 3/8"=1'-0"

**MUNICIPIO VILLALBA** OWNER  
 48-2022 PROJECT NUMBER  
 JANUARY 26, 2024 PRINTING DATE  
 CJO DRAWN / APPROVED

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	PROJECT PHASE

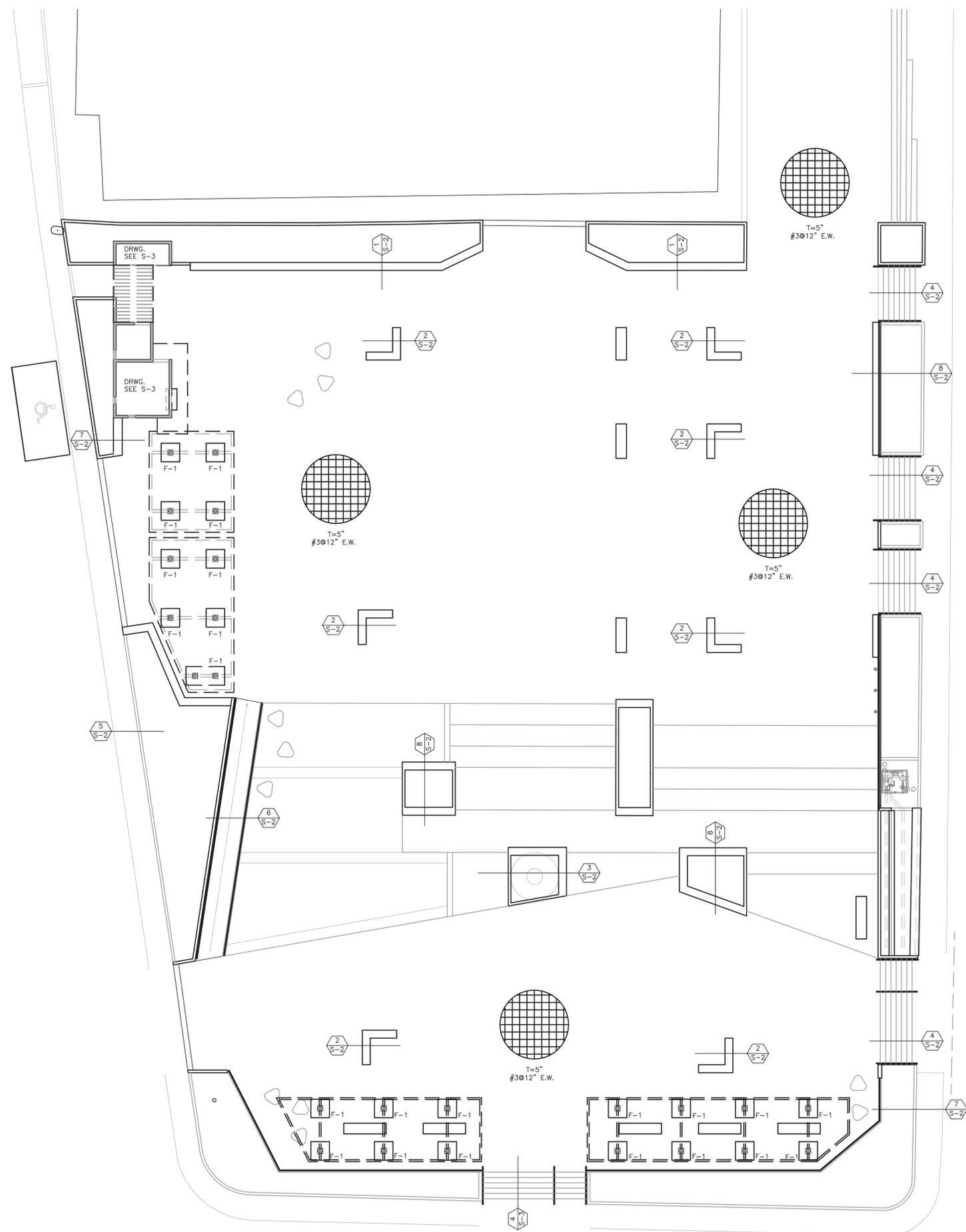
**GENERAL DETAILS** SHEET TITLE



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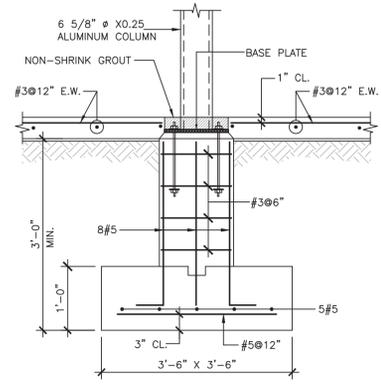
LOWER LEVEL PLAZA FOUNDATIONL PLAN  
SCALE: 3/32"=1'-0"

JOSE RAMON FIGUEROA RIVERA  
PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

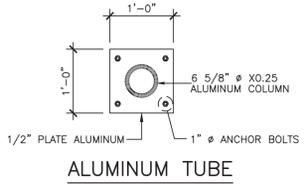
MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
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REVISION	CONSTRUCTION PHASE	PROJECT PHASE
	LOWER LEVEL	PLAZA FOUNDATIONL PLAN

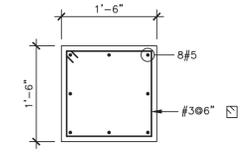
SHEET TITLE  
S-1 SHEET NO.



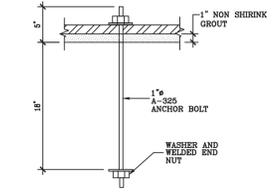
**FOOTING MK'D.F-1**  
SCALE 3/4"=1'-0"



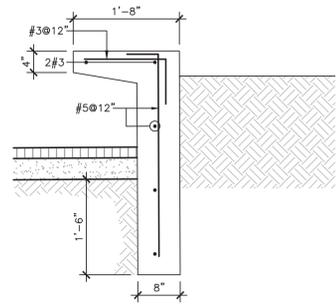
**ALUMINUM TUBE BASE PLATE**  
SCALE 3/4"=1'-0"



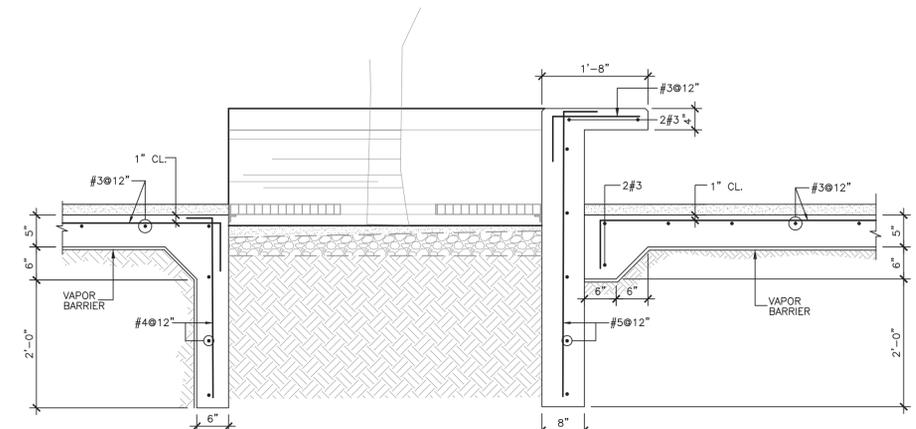
**PEDESTAL DETAIL**  
SCALE: 3/4"=1'-0"



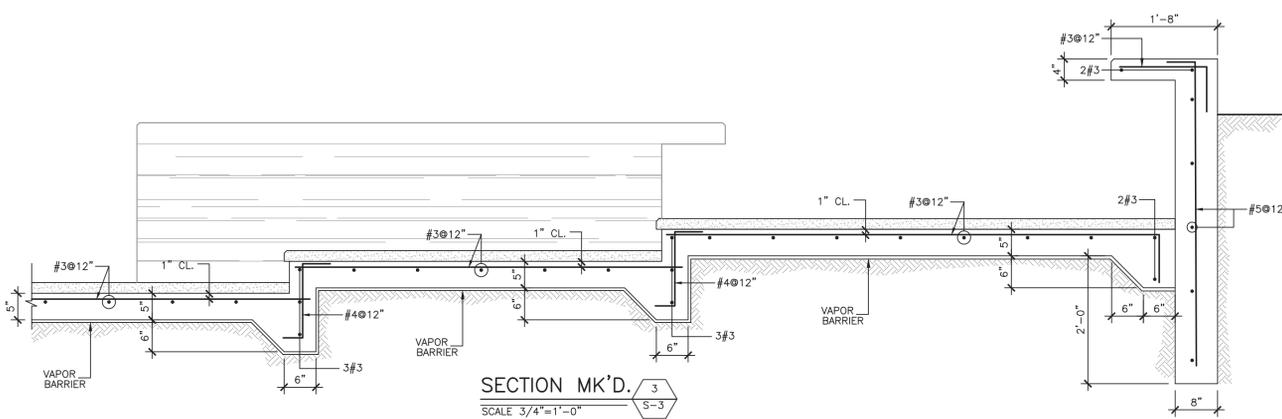
**ANCHOR BOLT DETAIL**  
N.T.S.



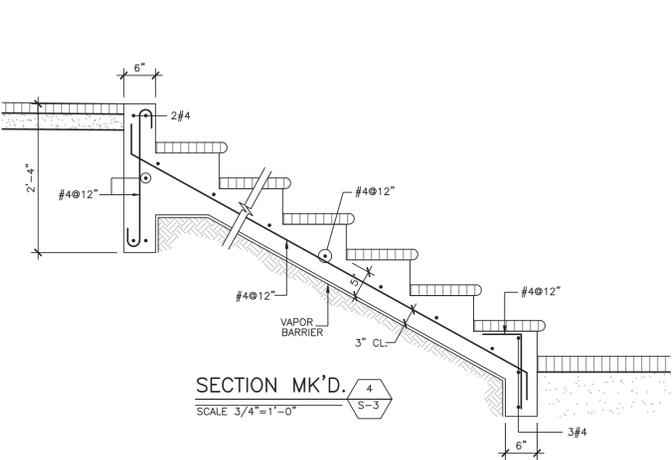
**SECTION MK'D. 1**  
SCALE 3/4"=1'-0"



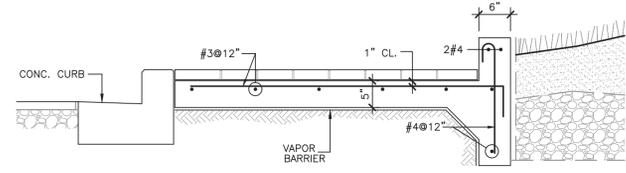
**SECTION MK'D. 2**  
SCALE 3/4"=1'-0"



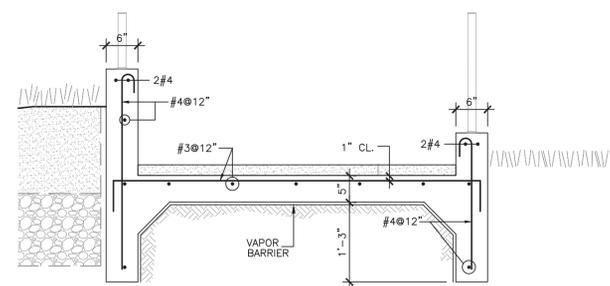
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SCALE 3/4"=1'-0"



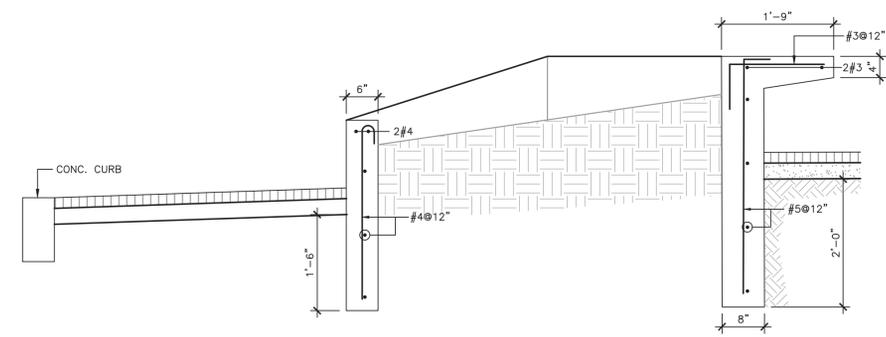
**SECTION MK'D. 4**  
SCALE 3/4"=1'-0"



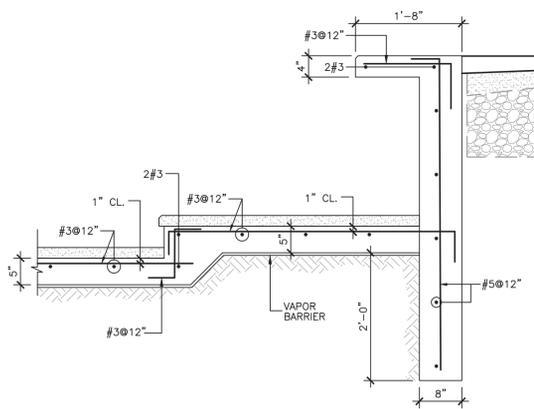
**SECTION MK'D. 5**  
SCALE 3/4"=1'-0"



**SECTION MK'D. 6**  
SCALE 3/4"=1'-0"



**SECTION MK'D. 7**  
SCALE 3/4"=1'-0"



**SECTION MK'D. 8**  
SCALE 3/4"=1'-0"

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48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
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REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

SECTIONS

SHEET TITLE

S-2 SHEET NO.

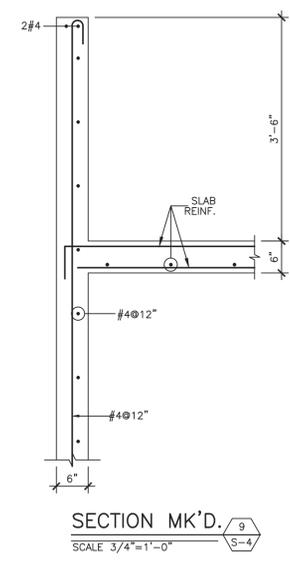
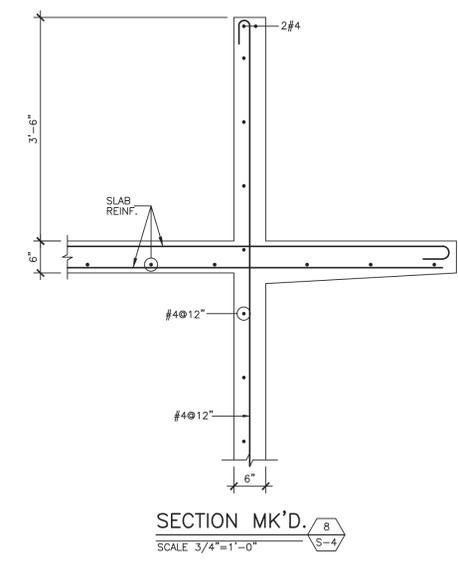
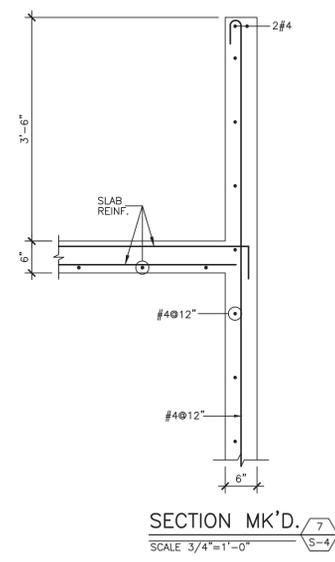
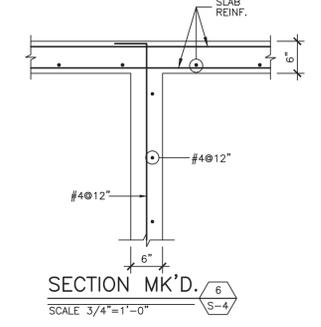
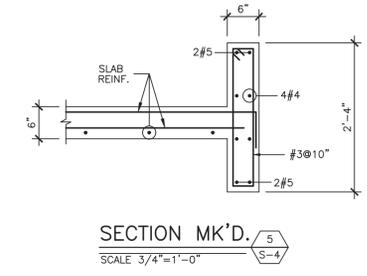
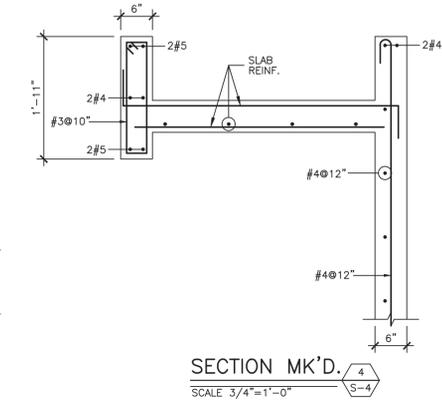
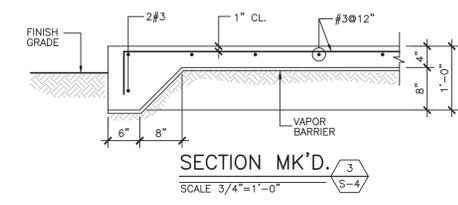
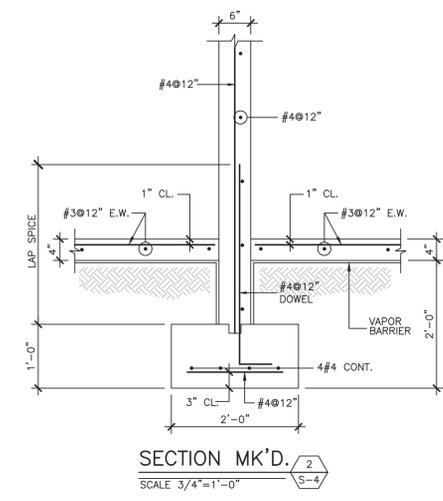
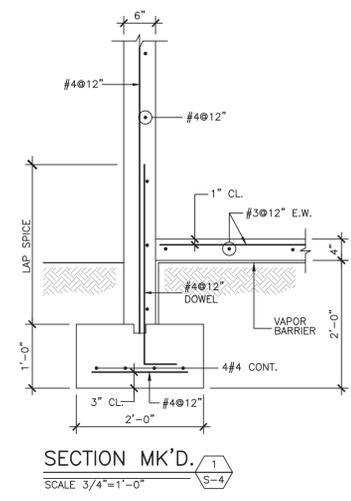




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PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39 , VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 24, 2024 PRINTING DATE  
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REVISION	CONSTRUCTION PHASE	PROJECT PHASE

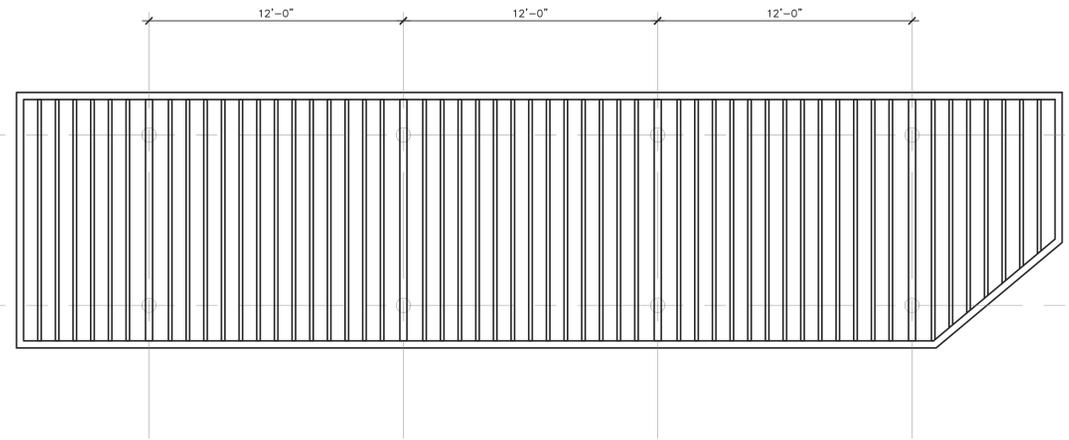
SECTIONS  
SHEET TITLE  
S-4 SHEET NO.



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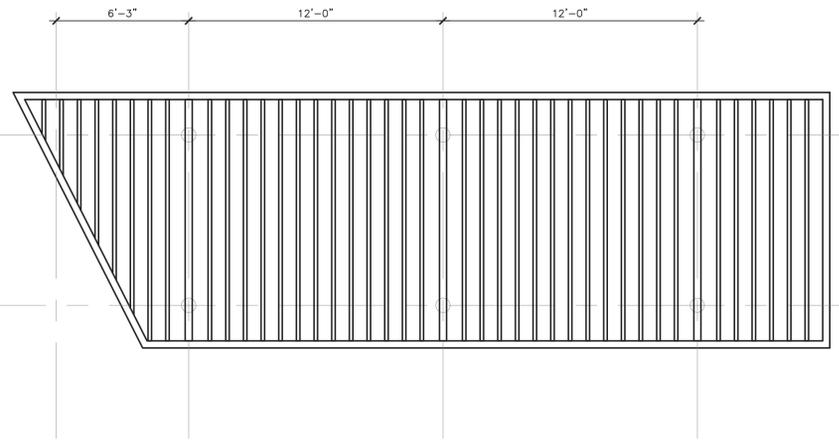


**TRELLIS- A ROOF STRUCTURAL PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.

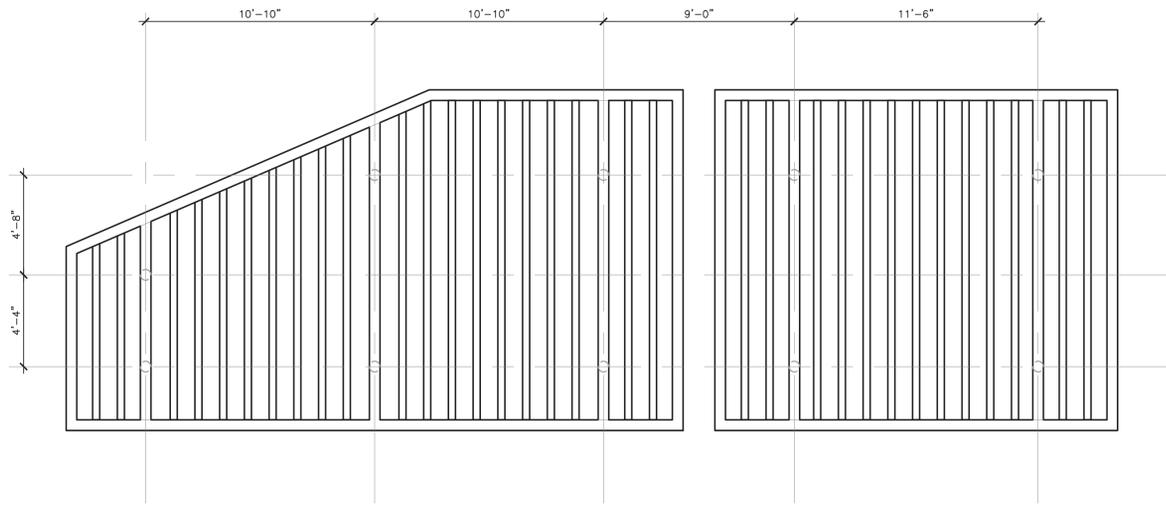


**TRELLIS- B ROOF STRUCTURAL PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.



**TRELLIS- C ROOF STRUCTURAL PLAN**

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

**NOTES:**

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2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY CERTIFIED ENGINEER FOR FINAL APPROVAL.

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 PLAZA RENOVATION  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
 PROJECT NUMBER  
 JANUARY 24, 2024  
 PRINTING DATE  
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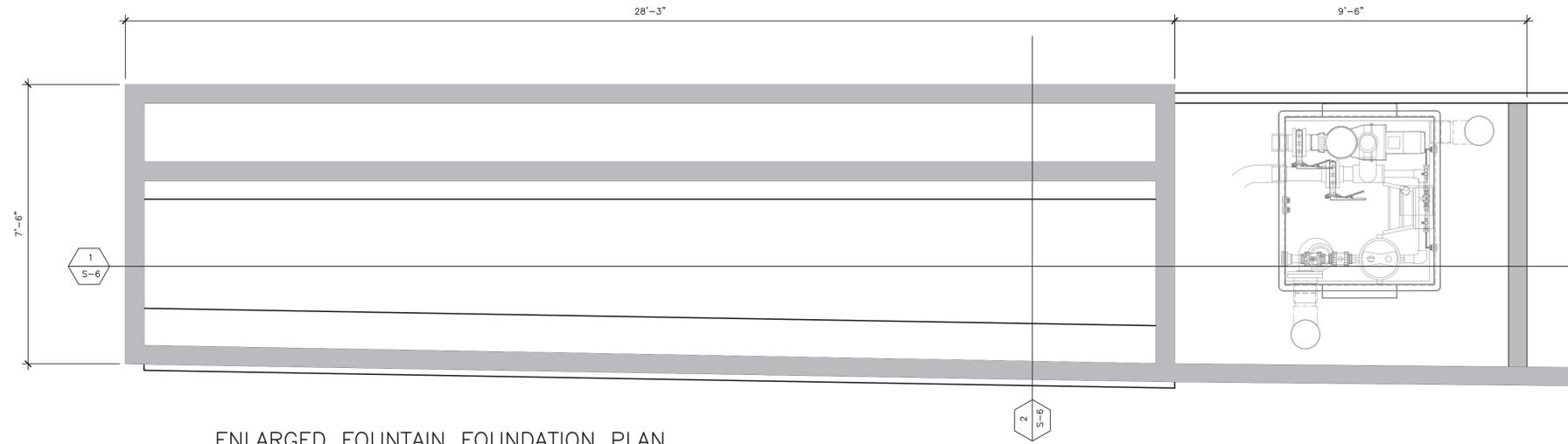
REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE  
 TRELLIS ROOF STRUCTURAL PLAN  
 SHEET TITLE  
 S-5  
 SHEET NO.



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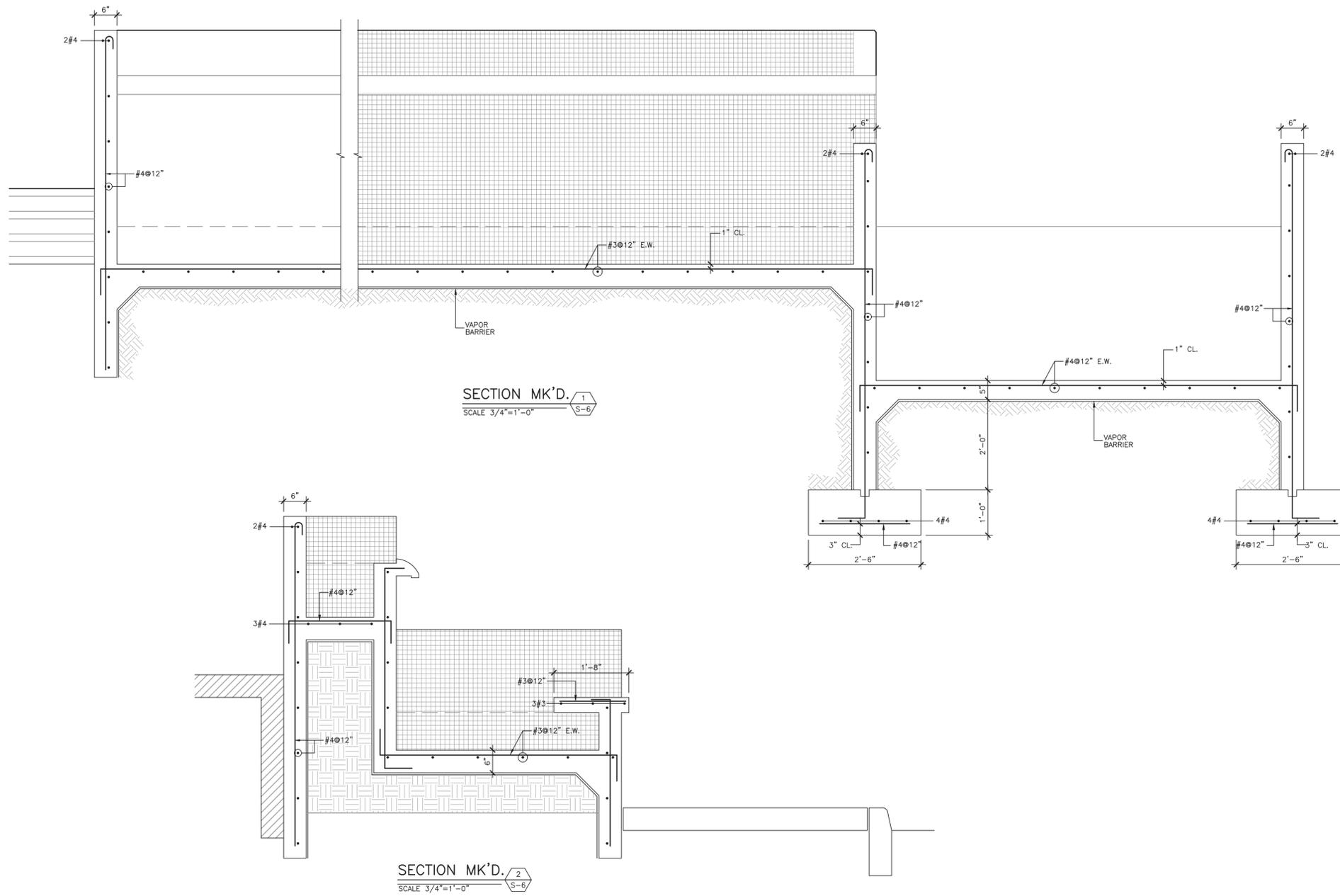


**ENLARGED FOUNTAIN FOUNDATION PLAN**

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

**NOTES:**

1. FOR ADDITIONAL DIMENSION REFER TO ARCHITECTURAL DRAWINGS



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CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
OWNER  
48-2022  
PROJECT NUMBER  
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SHEET TITLE  
S-6  
SHEET NO.



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REVISION  
 CONSTRUCTION PHASE  
 GENERAL NOTES  
 AND TYPICAL  
 DETAILS

SHEET TITLE  
 SN-1  
 SHEET NO.

**STRUCTURAL NOTES:**

THE FOLLOWING NOTES SHALL APPLY TO ALL STRUCTURAL PLANS UNLESS OTHERWISE SHOWN THEREIN. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEERS OF ANY DISCREPANCY AND/OR OMISSION WITH RESPECT TO THE ARCH, ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS:

- A - CONCRETE NOTES:**
- THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE REQUIRED AT 28 DAYS, AS SHOWN BY A.S.T.M. STANDARD CYLINDER TESTS, SHALL BE:
    - WALLS..... 4000 P.S.I.
    - STRUCTURAL SLAB..... 3500 P.S.I.
    - BEAMS..... 3500 P.S.I.
    - FOOTING & SLAB ON GROUND..... 4000 P.S.I.
  - MAXIMUM ALLOWED WATER TO CEMENT RATIO SHALL BE:
    - WALL & BEAMS & SLAB ON GROUND 0.62
    - STRUT FLOOR & ROOF SLAB 0.62
    - WALL WITH Fc 5000 P.S.I. USE 0.50
  - ALL CONCRETE WALLS AND SLABS SHALL BE CASTED MONOLITHICALLY.
  - CONCRETE PROTECTION FOR STEEL BARS:
    - CONCRETE DEPOSITED AGAINST SOIL..... 3"
    - STRUCTURAL SLABS..... 3/4"
    - BEAMS AND COLUMNS..... 1 1/2"
    - WALLS, UNLESS OTHERWISE NOTED..... 3/4"
  - ROOF SLAB THICKNESS SHALL BE AS SHOWN IN THE STRUCTURAL ROOF PLAN, IT SHALL BE INCREASED TO CONFORM TO THE ROOF'S DRAINAGE.

- B - REINFORCING STEEL NOTES:**
- ALL REINFORCING STEEL BARS SHALL CONSIST OF NEW BILLET DEFORMED STEEL BARS CONFORMED TO A.S.T.M. A - 615 -, GRADE 60
  - BARS MARKED (T) SHALL BE PLACED AT THE TOP OF THE SLABS; BARS MARKED (B) SHALL BE PLACED AT THE BOTTOM OF THE SLABS.
  - PROVIDE 2 #5 BARS AT THE CORNERS AND OPENINGS OF EVERY CONCRETE WALLS, EXCEPT AS OTHERWISE NOTED.
  - THE MINIMUM REINFORCEMENT FOR 6" CONCRETE WALLS SHALL CONSIST OF #3 AT 12" VERTICALLY AND #4 AT 12" HORIZONTALLY.
  - ALL REINFORCING WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH A.S.T.M. A - 105 SPECIFICATION.
  - TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN ALL ONE - WAY SLABS NORMAL TO THE PRINCIPAL REINFORCEMENT IN ACCORDANCE WITH A.C.I. 318 - 14 BUILDING CODE.
  - MASONRY WALLS REINFORCEMENT SHALL BE EQUAL OR SIMILAR TO DURO-O-WALL TRUSS SAID REINF. SHALL BE INSTALLED IN THE FIRST AND SECOND BED JOINTS, (6" APART); IMMEDIATELY ABOVE LINTELS AND SILLS; AT OPENINGS; AND AT 1'6" VERTICAL INTERVALS ELSEWHERE.
  - BEAM REINF. SHALL BE PLACED IN THE SPECIFIED POSITIONS AND WITH A MAXIMUM VARIATION IN DISTANCE 'D' OF ± 1/4".
  - COLUMNS AND WALLS DOVELS SHALL CONSIST OF THE SAME SIZE AND NUMBER AS THEIR VERTICAL REINFORCEMENT.
  - ALL WELDING PERFORMED ON STEEL BARS SHALL CONFORM TO RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL METAL INSERTS AND CONNECTIONS IN REINF. CONC. CONSTRUCTION, (AWS D 12.1).

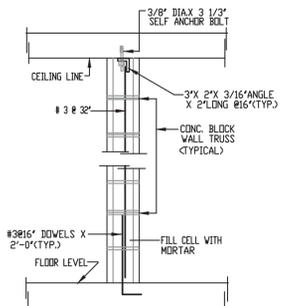
- C - FOUNDATION SYSTEM (SEE DESIGN CRITERIA)**
- THE FOUNDATION SYSTEM HAS BEEN DESIGNED FOLLOWING THE ASSUMPTION OF SOIL BEARING CAPACITY OF 2,500 PSF. SEE SOIL REPORT BY: THE CONTRACTOR SHALL VERIFY THE SOIL CONDITIONS USED FOR THE DESIGN OF THE FOUNDATION SYSTEM, PRIOR TO ANY PLACEMENT OF CONCRETE.
  - THE SOIL INVESTIGATION REPORT IS PART OF THESE NOTES AND ITS RECOMMENDATIONS MUST BE CAREFULLY OBSERVED.
  - FILL UNDER THE GROUND FLOOR SHALL BE COMPACTED AS TO ATTAIN 90% OF ITS MODIFIED DENSITY A.S.T.M. 1 557 - 70T).

- D - STRUCTURAL STEEL NOTES:**
- ALL STRUCTURAL STEEL SECTIONS SHALL BE ACCORDING TO A.S.T.M. 1-36 STANDARD FOR STRUCTURAL STEEL THE SPECIFIED YIELD POINT SHALL BE 36,000.0 P.S.I.
  - ALL WELDING SHALL CONFORM TO THE SPECIFICATIONS OF THE AMERICAN WELDING SOCIETY. ELECTRODES SHALL CONSIST OF THE E 70 XX TYPE, EXCEPT AS OTHERWISE NOTED.
  - ALL TESTING AND INSPECTION OF WELDING SHALL BE DONE IN ACCORDANCE WITH SECTIONS 601 THROUGH 607 OF THE A.W.S. DL 0-05 CODE FOR WELDING IN BUILDING CONSTRUCTION.
  - ALL STEEL BOLTS SHALL CONFORM TO A.S.T.M. A-325 FRICTION BOLTS, UNLESS OTHERWISE NOTED.
  - THE FOLLOWING ADDITIONAL SPECIFICATIONS GOVERN THE DESIGN, FABRICATION AND ERECTION OF THESE STRUCTURES:
    - AMERICAN INSTITUTE OF STEEL CONSTRUCTION..... (LATEST EDITION)
    - STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS..... (LATEST EDITION)
    - STANDARD SPECIFICATIONS FOR LONG SPAN STEEL JOISTS..... (LATEST EDITION)
    - STANDARD SPECIFICATIONS FOR DEEP LONG SPAN STEEL JOISTS..... (LATEST EDITION)
  - SHOP DRAWINGS FOR ALL THE STRUCTURAL STEEL SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR HIS APPROVAL, PRIOR TO ANY CONSTRUCTION.

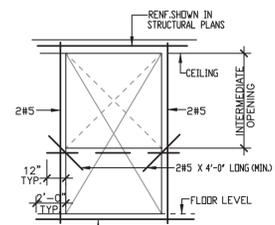
- E - DESIGN DATA**
- 1 - CODES:
- A.C.I. CODE - 318 - 2016 EDITION
  - MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, A.C.I. 318 - LATEST EDITION.
  - PUERTO RICO BUILDING CODE, 2018.
  - A.I.S.C. MANUAL, 2016 EDITION.
  - INTERNATIONAL BUILDING CODE 2018

- F - GENERAL NOTES:**
- OPENINGS ON THE STRUCTURAL SLABS THAT ARE NOT SHOWN ON THE STRUCTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR PERTINENT CONSIDERATIONS.
  - ALL REINFORCING BARS AND STIRRUPS SHALL BE ACCURATELY PLACED AND SECURELY WIRE TO PREVENT DISLOCATIONS FROM PROPER POSITION, WHENEVER METAL CHAIRS ARE USED, THEIR LEGS SHALL BE PLASTIC TIPPED.
  - HORIZONTAL MOVEMENT OF ANY EQUIPMENT OVER THE STRUCTURE L FLOORS ON ROOF AND ITS TEMPORARY AND/OR DEFINITE LOCATIONS MUST BE PREVIOUSLY APPROVED BY THE ENGINEER TO AVOID OVERLOADING OR IMPAIRMENT OF THE STRUCTURE. THE SAME PRECAUTIONS SHALL BE TAKEN FOR THE FILING OF CONSTRUCTION MATERIALS.
  - CONSTRUCTION JOINTS AT SLABS ON GROUND, AS SHOWN ON THIS SHEET, SHALL BE PROVIDED AT THE COLUMNS CENTER LINES, AND POURING OF CONCRETE IN RESULTING PANELS SHALL BE DONE FOLLOWING CHECKER BOARD PATTERN.
  - OTHER CONSTRUCTION JOINTS SHALL BE CONSTRUCTED AS FOLLOWS: ROUGHEN SURFACE WITH A WIRE BRUSH AND STREAM OF WATER BEFORE CONCRETE SETS TO EXPOSE 3/8" OF THE COARSE AGGREGATE MOISTEN ROUGH SURFACE BEFORE CASTING THE NEW CONCRETE VIBRATE THOROUGHLY AT JOINT.
  - NO SPLICES IN REINFORCEMENT SHALL BE MADE EXCEPT AS SHOWN IN PLANS. TEMPERATURE REINF. AND BARS MARKED "CONTINUOUS" SHALL BE SPLICED WHERE NECESSARY, A MINIMUM OF 36 BARS DIAMETERS BUT NOT LESS THAN 1'-6" W.W.F. SHALL BE LAPPED AT LEAST 6"(IN) A - 615-40.
  - ANY LINE DRAWN FROM ANY BOTTOM EDGE OF A FOOTING, HAVING A SLOPE OF 1 VERTICALLY AND 2 HORIZONTALLY, SHALL LIE ENTIRELY ON UNDISTURBED SOIL OF AN ALLOWABLE BEARING PRESSURE AS SPECIFIED IN NOTE #C-1.
  - LAP LENGTHS NOT SPECIFIED ON THE DRAWINGS SHALL CONSIST OF 24 BARS DIAMETERS FOR A - 615 - 40 STEEL OR 36 BARS DIAMETERS FOR A - 615-40.
  - IN TWO-WAY SLABS, THE SHORTER BARS SHALL BE PLACED 3/4" CLEAR FROM THE TOP OR BOTTOM SURFACES, THE LONGER BARS SHALL BE PLACED IN CONTACT WITH THEM.
  - THE TOP OF EVERY FOUNDATION WALL LOCATED BELOW A WINDOW OR DOOR OPENING SHALL BE ADDITIONALLY REINFORCED WITH 2 #5 BAR, 4'-0" LONGER THAN THE WIDTH OF SAID OPENING.
  - CONDUITS AND PIPE EMBEDDED IN CONCRETE SHALL FOLLOW THE REQUIREMENTS OF SECTION 6.3 OF THE A.C.I. BUILDING CODE.
  - THE GENERAL CONTRACTOR SHALL PROVIDE THE NECESSARY LATERAL SHORING IN ORDER TO ASSURE THE STABILITY OF THE STRUCTURE, OR PORTIONS THEREOF, DURING THE CONSTRUCTION PROCESS.
  - THE GENERAL CONTRACTOR SHALL TAKE INTO ACCOUNT THE DEFORMATIONS OF THE FORMS AND/OR SHORING SYSTEM, IN ORDER TO INTRODUCE THE NECESSARY CAMBER TO OFF-SET THEM.
  - ALL OPENINGS AT SLABS ON GROUND SHALL BE REINFORCED WITH AN ADDITIONAL LAYER OF 6 x 6 - w 2.9 x w 2.9 W.W.F.; SAID LAYER SHALL EXTEND FOR 25' BEYOND THE OPENING'S EDGES.
  - THE CONTRACTOR SHALL BE EXTREMELY CAREFUL WITH THE POURING OF CONC. AT OVERHANG; HE SHALL ASSURE THAT THE POSITION OF THE "TOP" REINF. BARS IS NOT LOWERED BY HIS WORKMEN DURING SAID OPERATION.
  - THE GENERAL CONTRACTOR MUST SUBMIT A SCHEDULE OF CONCRETE POURING, SHOWING THE PROPOSED CONST. JOINTS. HE SHALL COMPLY WITH A.C.I. 318-14 SECTION 6.4.
  - THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO COMMENCING WORK. THE ENGINEER / ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES WHICH MAY EXIST.

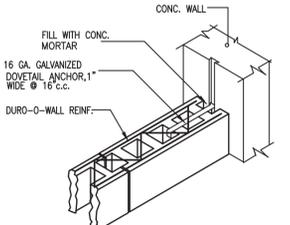
- G - DESIGN CRITERIA:**
- ROOF LIVE LOAD..... 40 P.S.F.
  - FLOOR LIVE LOAD..... 40 P.S.F. (BASIC FLOOR AREA.)
  - EARTH QUAKE LOAD..... AS PER IBC - 18 BUILDING CODE  
SEISMIC CATEGORY: F  
SPECTRAL ACCELERATIONS: Sd=0.97, S1=0.39
  - WIND LOAD..... AS PER P.R. BUILDING CODE 2018  
WIND SPEED: 165 MPH  
EXPOSURE CATEGORY: C
  - SOIL BEARING CAPACITY..... 2,500 P.S.F.  
SOIL IMPROVEMENT BY: SEE SOIL REPORT  
THE CONTRACTOR SHALL SUBMIT SOIL IMPROVEMENT METHOD FOR EVALUATION AND APPROVAL.



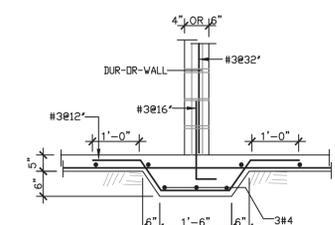
**CONC. BLOCK WALL REINFORCEMENT DETAIL**  
 NOT TO SCALE



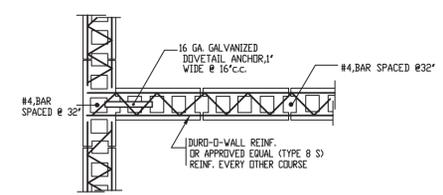
**CONC. WALL OPENING REINFORCEMENT**  
 NOT TO SCALE



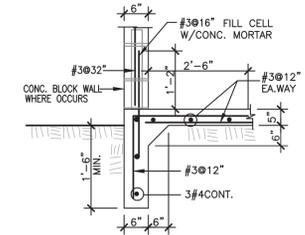
**BLOCK WALL TO CONC. WALL ANCHORAGE**  
 NOT TO SCALE



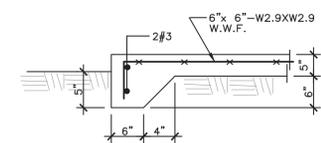
**TYPICAL WALL BLOCK WALL FOOTING DETAIL**  
 NOT TO SCALE



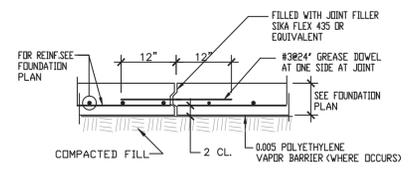
**WALL OR SLAB SPLICE DETAIL REINFORCEMENT DETAIL**  
 NOT TO SCALE



**SECTION MK'D 1**  
 NOT TO SCALE



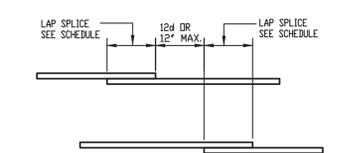
**SECTION MK'D 2**  
 NOT TO SCALE



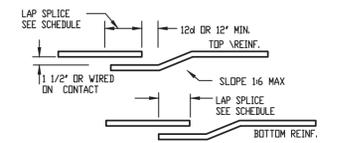
**TYPICAL CONSTRUCTION JOINT AT SLAB ON GROUND**  
 NOT TO SCALE

BAR SIZE	TENSION DEVELOPMENT LENGTH (in)			
	F'c= 3,000 P.S.I.	F'c= 4,000 P.S.I.	F'c= 5,000 P.S.I.	
# 3	29	22	23	18
# 4	38	29	33	25
# 5	47	36	40	31
# 6	56	43	49	38
# 7	81	62	69	53
# 8	94	72	79	61
# 9	105	81	90	69
# 10	118	91	101	78
# 11	131	101	112	86

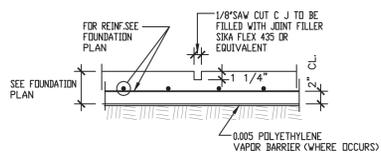
**LAP SPLICE SCHEDULE**



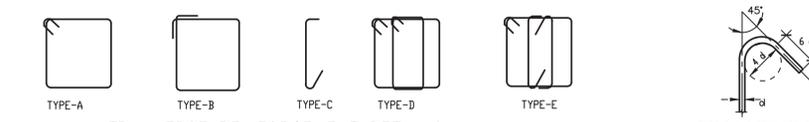
**WALL OR SLAB SPLICE DETAIL**  
 NOT TO SCALE



**BEAM SPLICE DETAIL**  
 NOT TO SCALE

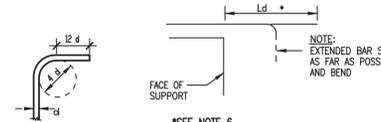


**TYPICAL CONTROL JOINT**  
 NOT TO SCALE

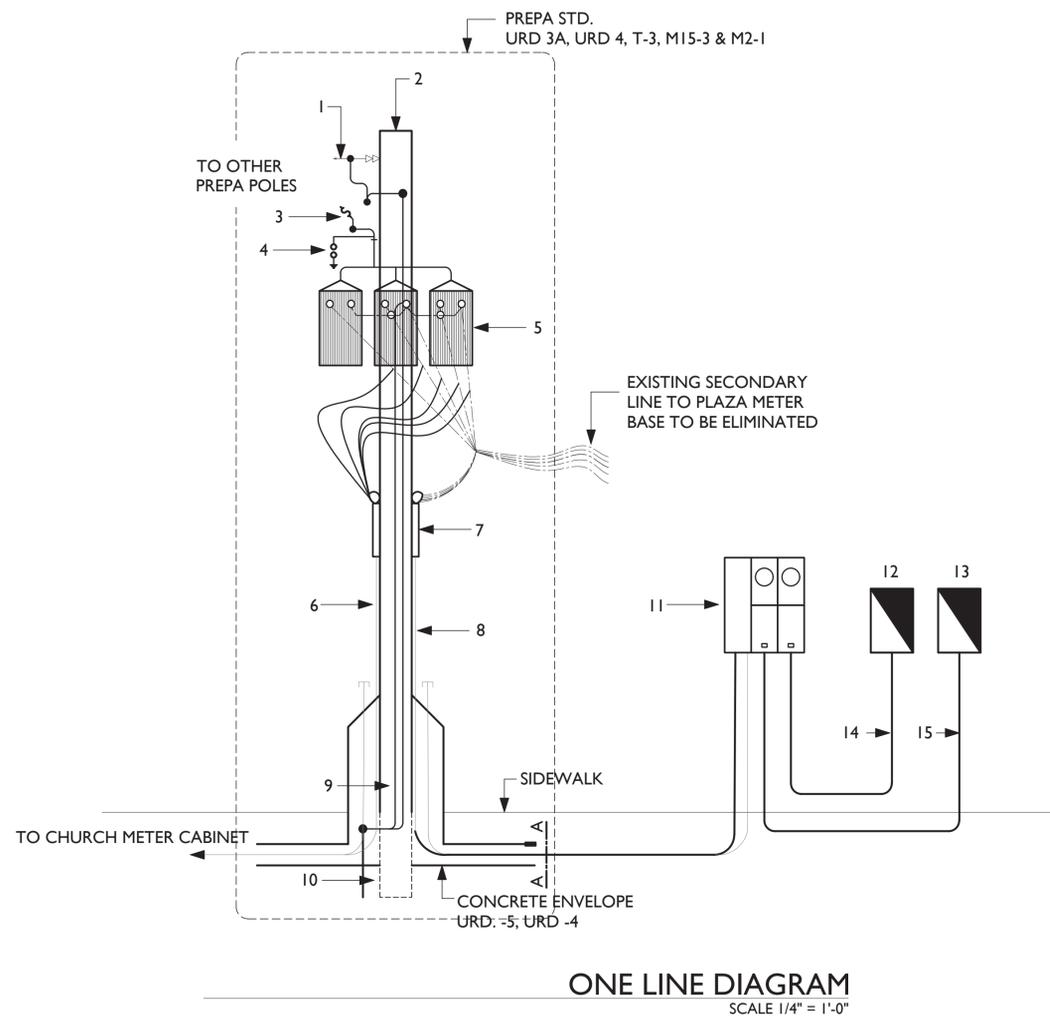


**TRANSVERSE REINFORCEMENT DETAILS**

- NOTES:**
- TYPE B HOOKS SHALL BE USED WHEN THE DESIGNATION LETTER IS OMITTED IN BEAM DETAILS.
  - EXCEPT WHERE OTHERWISE INDICATED THE FIRST HOOK AT EACH END SHALL BE PLACED AT 2" FROM THE FACE OF SUPPORT.

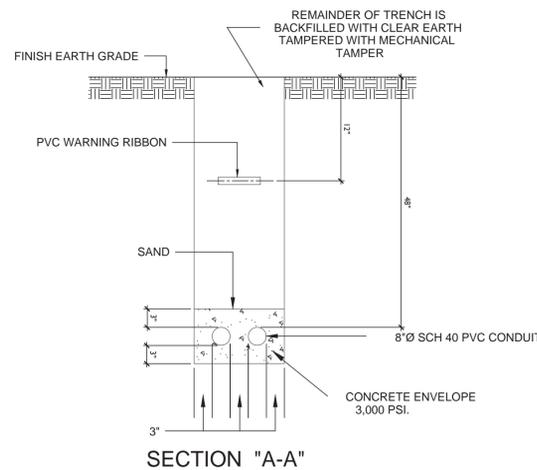


**TYPE B & C BEAM HOOKS AND REGULAR COLUMN TIES**  
 \*SEE NOTE 6



**EXISTING POLE LEGEND**

1. EXISTING 30, 4W, 4.16KV OVERHEAD PRIMARY LINE.
2. EXISTING 45FT POLE.
3. (3) OPEN FUSE CUT OUTS, 27KV 125 KV BIL WITH 40 FUSE LINKS.
4. (3) OUTDOOR LIGHTING ARRESTER 3KV.
5. (3) POLE TYPE OIL IMMERSSED 75 KVA TRANSFORMERS 4.16 KV PRIMARY DELTA CONNECTED-102/208 SECONDARY WYE CONNECTED TO REPLACE EXISTING 150 KVA POLE TYPE SUBSTATION.
6. EXISTING CHURCH UNDERGROUND SECONDARY FEEDER TO BE CONNECTED TO NEW 225 KVA SUBSTATION.
7. 4" RGS CONDUIT TRANSITION TO PVC SCH40 UNDERGROUND.
8. SECONDARY FEEDER CONSISTING OF 4C #4/0 IN 2 1/2" CONDUIT. PROVIDE 1 - 2 1/2" SPARE CONDUIT TO METER BASE.
9. #2 GROUND COOPER CONDUIT.
10. COOPER GROUND ROD 3/4 x 10 FT.
11. 400A MAIN LUGS METER BASE WITH ONE 200A 3PH 240V METER BASE AND ONE 100A 3PH 240V MAIN BREAKER METER BASE.
12. 200A 3PH 120/240V PANELBOARDS TO SERVE PUBLIC AREA. SEE SCHEDULE FOR DETAIL.
13. 100A 3PH 120/240V PANELBOARDS FOR CONCESSIONARY. SEE SCHEDULE FOR DETAIL.
14. SECONDARY FEEDER CONSISTING OF 4#3/0 THAN AND 1C#2 IN 2" CONDUIT. USE PVC SHC 40 FOR UNDERGROUND AND RGS EXPOSED.

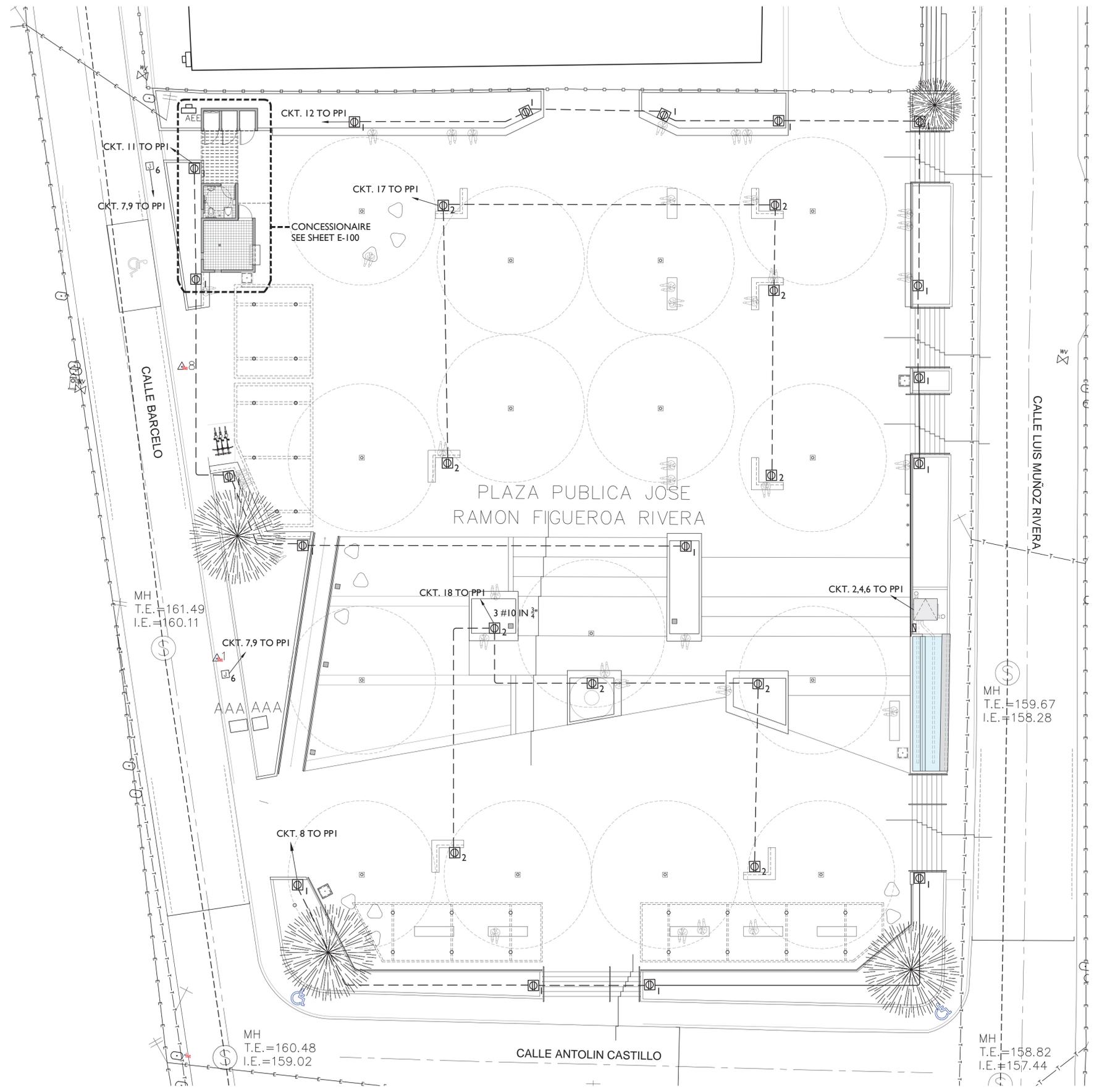


**GRAPHIC LEGEND**

- E---E---E--- EXISTING ELECTRICAL LINE
- ⊠ EXISTING METER BASE TO BE REMODEL.
- EXISTING 150KVA ELECTRICAL SUBSTATION
- ▭ NEW PANELS
- CONDUIT CONCEALED FLOOR SLAB OR WALL WITH ONE (1) LIVE WIRE, ONE (1) NEUTRAL AND ONE (1) GROUND WIRE. A DIFFERENT AMOUNT OF WIRE ARE INDICATED BY CROSSING BARS: A SHORT BAR DENOTES A LIVE WIRE, A LONG BAR A NEUTRAL WIRE, AND A LONG BAR WITH A FLAGGED TICK MARK A GROUND WIRE.
- EMB EXISTING METER BASE TO REMAIN
- EMR EXISTING METER BASE TO BE REPLACED BY NEW TWO POS METER BANK

**ELECTRICAL LEGEND:**

- Ⓢ WALL SWITCH, 120 VOLTS, 60 HTZ, HEAVY DUTY, 10 AMPS, WITH HEAVY DUTY PLASTIC WHITE COVER @ 48" FROM FG SUFFIX INDICATES NUMBER ON & LETTER THE LUMINAIRE.
- L1 TRELLIS LIGHT, SEE LIGHTING SCHEDULE.
- L2 ROUND CEILING LIGHT, SEE LIGHTING SCHEDULE.
- L3 WALL LIGHT, SEE LIGHTING SCHEDULE.
- L4 STEP LIGHT LED, SEE LIGHTING SCHEDULE.
- L5 EXTERIOR LIGHT POLE, SEE LIGHTING SCHEDULE.
- L6 LINEAR LIGHT LED, SEE LIGHTING SCHEDULE.
- L7 LANDSCAPE LIGHT LED, SEE LIGHTING SCHEDULE.
- L8 FOUNTAIN LED LIGHT, SEE LIGHTING SCHEDULE.
- Ⓢ WALL OUTLET, 20 AMPS, 120 VOLTS, 60 HTZ, HEAVY DUTY WITH PLASTIC WHITE COVER. "WVP" AT OUTLET INDICATE GFCI RECEPTACLE & WEATHER PROOF COVER.
- Ⓢ<sub>1</sub> OUTDOOR GROUND BOX EQUAL OR SIMILAR TO LEGRAND XB814C520GY WITH TWO DUPLEX RECEPTACLE 20A 120V FOR PLANTERS.
- Ⓢ<sub>2</sub> DUPLEX RECEPTACLE GROUNDING TYPE 20A, 120V, GFCI WITH USB PROVISION FLUSH MOUNTED AT 15" AFF. EQUAL OR SIMILAR TO LEGRAND 2097TRUSBAA AND COVER PLATE WATER PROOF. FOR DISPOSITIVE IN BENCHS.
- CONDUITS RUN ON SLAB BE IT FLOOR OR CEILING. ALL EXPOSED RUN CAN NOT BE PVC MUST BE RGC. MINIMUM WIRE SIZE #10 AWG THHN.
- CONDUITS RUN ON SLAB BE IT CEILING. ALL EXPOSED RUN CAN NOT BE PVC MUST BE RGC. (LIGHTING).
- HOME RUN CONDUIT SPECIFICATIONS AS ABOVE.
- NEW PANEL AS PER SPECIFICATIONS 120/240 VOLTS, 60 HTZ, COPPER BUS BARS.
- J JUNCTION BOX, FOR LIGHTS PLANTERS.
- J<sub>1</sub> JUNCTION BOX, FOR TRANSFORMER FOR LINEAR LIGHT LED.
- J<sub>2</sub> JUNCTION BOX, FOR FOUNTAIN PUMP EQUIPMENT.
- J<sub>2A</sub> JUNCTION BOX, FOR FOUNTAIN LIGHTS.
- J<sub>3</sub> JUNCTION BOX, FOR COMMERCIAL WALL SIGNAGE, INSTALL AT 60" F.F.L.
- J<sub>4</sub> JUNCTION BOX, FOR HAND DRYER AT BATHROOM.
- J<sub>5</sub> JUNCTION BOX, FOR WATER PUMP TANK AT ROOF CONCESSIONAIRE.
- J<sub>6</sub> ELECTRIC CAR STATION EQUAL OR SIMILAR TO LEVITON EVR-GREEN 4000
- J<sub>7</sub> JUNCTION BOX, FOR IRRIGATION CISTERN
- J<sub>8</sub> JUNCTION BOX, FOR SOUND SYSTEM
- LCP LIGHTING CONTROL PANEL EQUAL OR SIMILAR TO NLIGHT ARP INTENC48 NLT 24FCR MVOLT HLK SM DTC



**PROPOSED POWER DISTRIBUTION**  
 SCALE 3/32" = 1'-0"

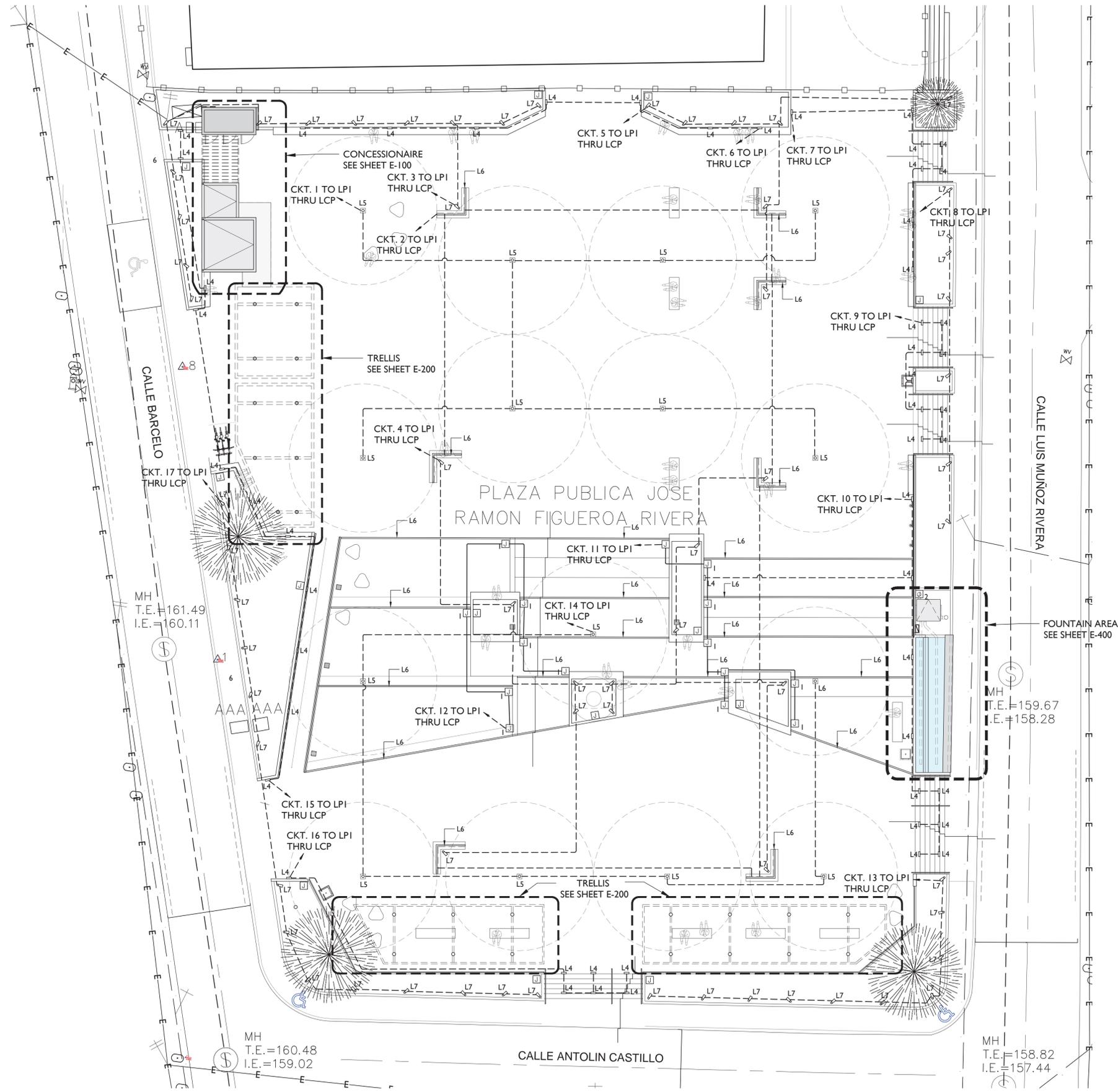
**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
 CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

MUNICIPIO VILLALBA  
 48-2022  
 PROJECT NUMBER  
 JANUARY 26, 2024  
 PRINTING DATE  
 CJO  
 DRAWN / APPROVED

REVISION  
 CONSTRUCTION PHASE  
 PROJECT PHASE

LIGHTING DISTRIBUTION  
 SHEET TITLE

ES-300  
 SHEET NO.



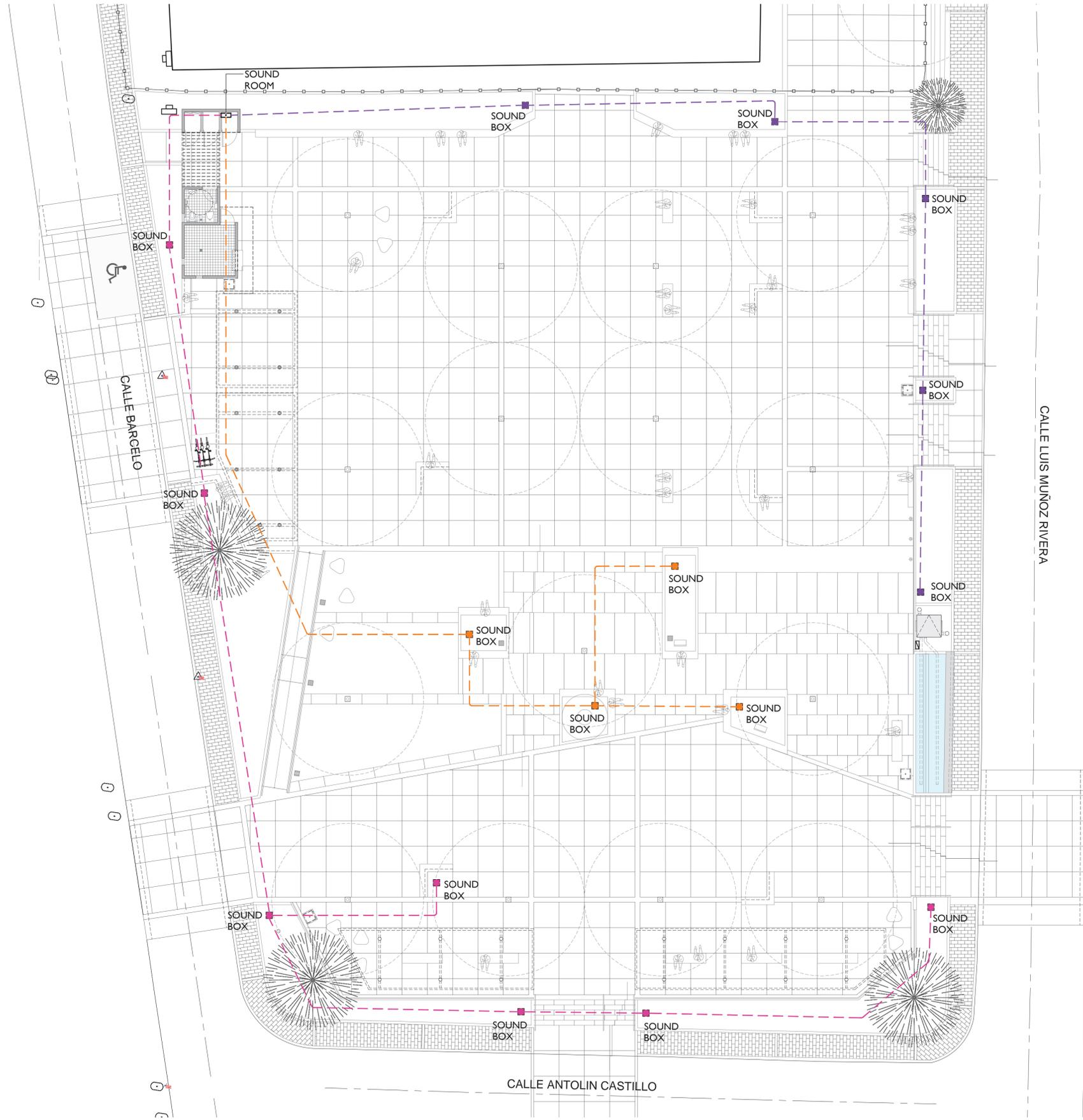
**PROPOSED LIGHTING DISTRIBUTION**  
 SCALE 3/32" = 1'-0"

**SOUND LEGEND:**

-  SOUND EQUIPMENT
-  SPEAKERS EXTERIOR KIND (INSTALL CONCRETE BASE AS REQUIRED BY SUPPLIER)
-  ZONE 1: CONDUITS RUN BELOW FLOOR.
-  ZONE 2: CONDUITS RUN BELOW FLOOR.
-  ZONE 3: CONDUITS RUN BELOW FLOOR.

**NOTES:**

1. INSTALL ALL EQUIPMENTS AS REQUIRED BY DESIGNED SUPPLIER.
2. PROVIDE CONCRETE BASE AT PLANTERS AREA AS SPECIFY ON DISTRIBUTION PLAN. DIMENSIONS APPROXIMATES 8" DIAM. X 16" HEIGHT.



**PROPOSED SOUND DISTRIBUTION**  
SCALE 3/32" = 1'-0"



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PROFESSIONAL CONSULTANT

**CERTIFICACION**  
Yo, FELIX FELICIANO, INGENIERO LICENCIADO 17278, certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Consumo y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Jurisdicciones, Reglamentadoras o Corporaciones Públicas con jurisdicción.

Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento o por negligencia y si esa por mi, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial disciplinaria por la OIGPA y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPA.

**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

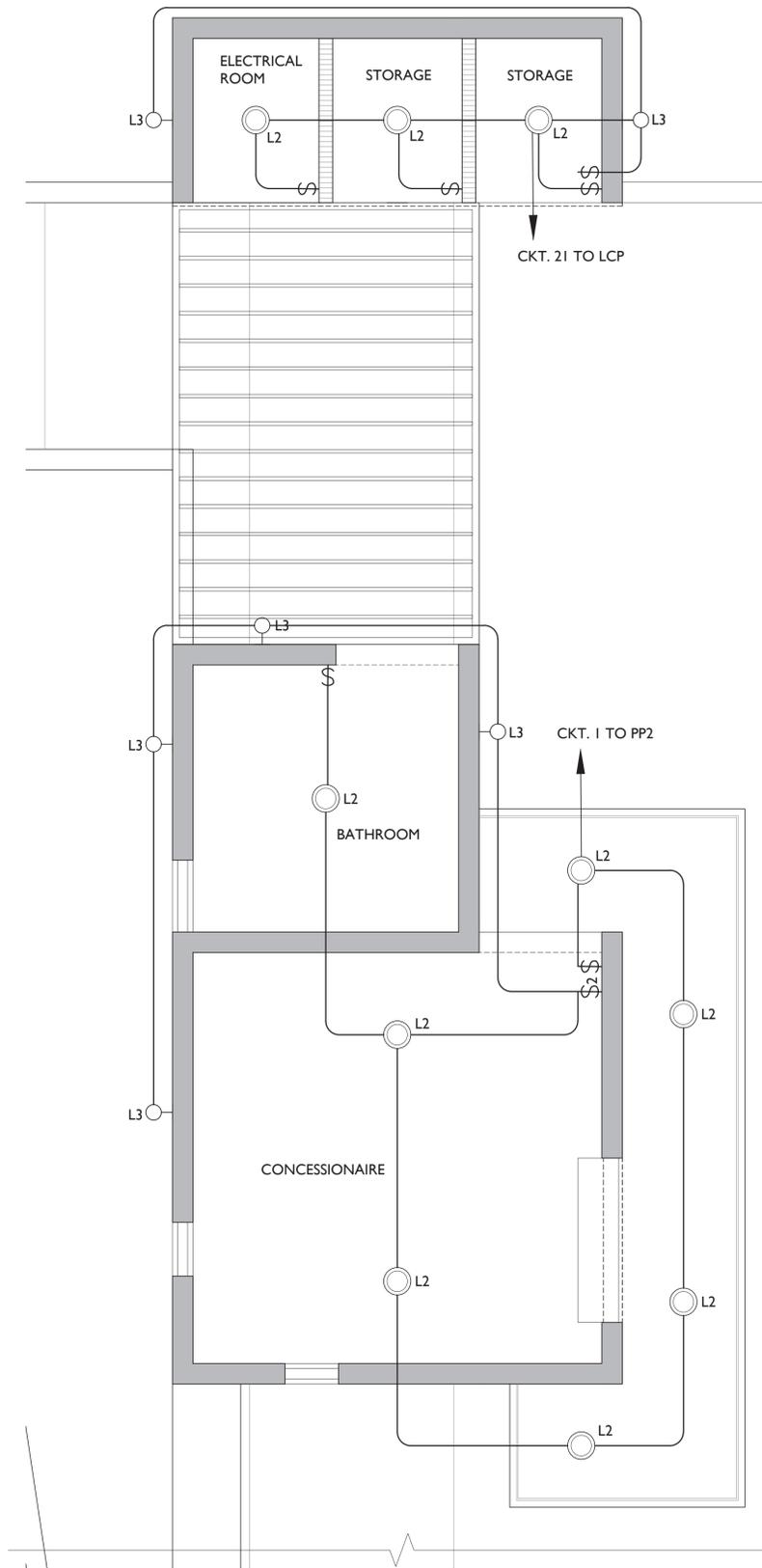
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48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE PROJECT PHASE

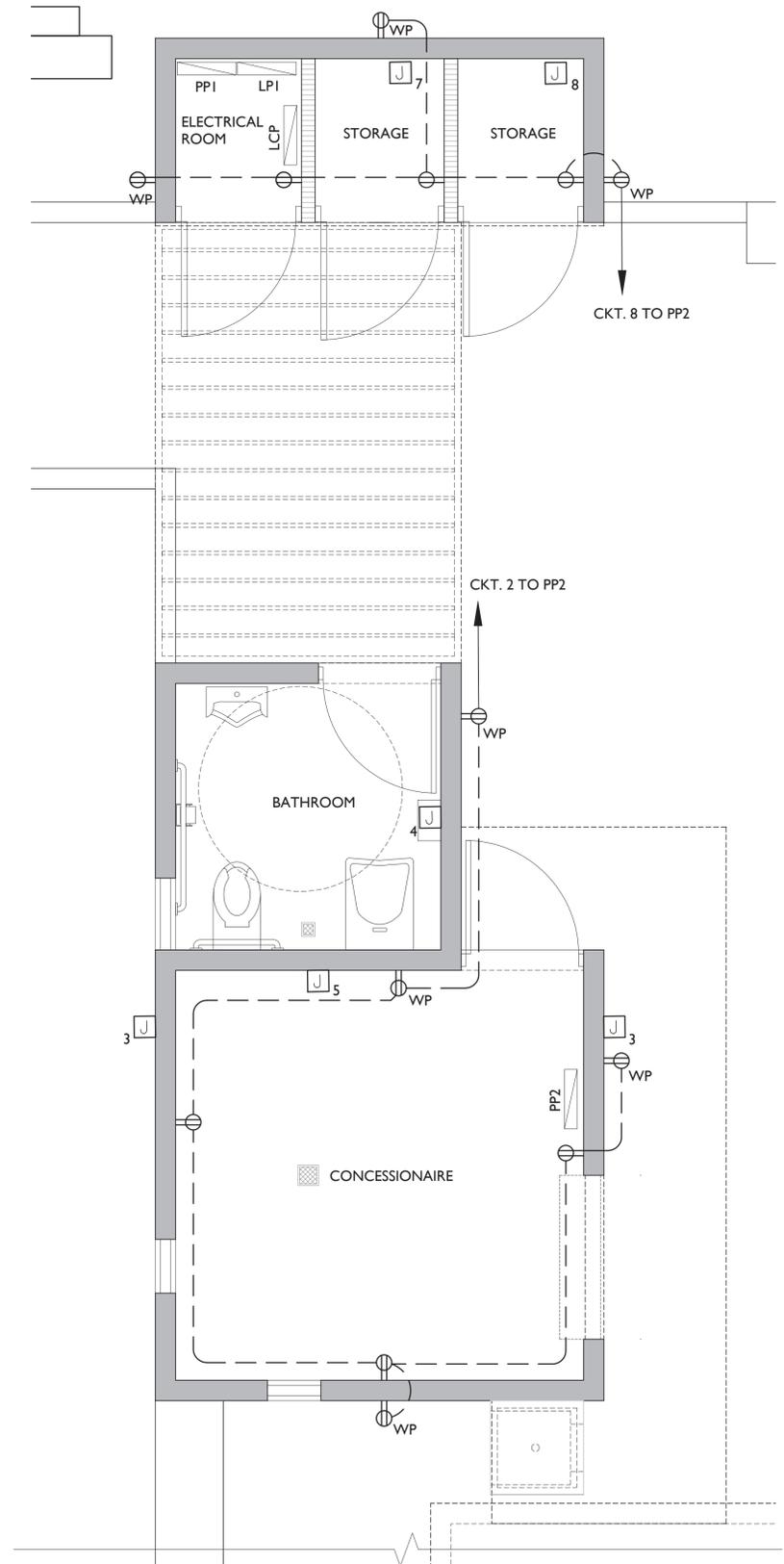
SOUND DISTRIBUTION SHEET TITLE

ES-400 SHEET NO.

DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD PP1 225A 3PH 3W 120/240V	1,3,5	50	5#6	3	1 1/4"	LP1
	2,4,6	40	5#8	3	1 1/4"	FOUNTAIN
	7,9	40	4#8	2	1"	Electric Car Charger
	8	20	3#10	1	3/4"	Planters Receptacles
	10	20		1		Spare
	11,12	20	3#10	1	3/4"	Planters Receptacles
	13-16	20		1		Spare
	17,18	20	3#10	1	3/4"	Bench receptacles
19-24	20				space	
DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD LP1 100A 3PH 3W 120/240V	1	20	3#10	1	3/4"	Lighting Poles
	2,4	20	3#10	1	3/4"	Planters Lighting
	3	20	3#10	1	3/4"	Bench Lighting
	5	20	3#10	1	3/4"	Planters Lighting
	6,7,9,10	20	3#10	1	3/4"	Step Lights
	8	20	3#10	1	3/4"	Planters Lighting
	11,12	20	3#10	1	3/4"	LED Strips
	13	20	3#10	1	3/4"	Planters Lighting
	14	20	3#10	1	3/4"	Lighting Poles
	15,16	20	3#10	1	3/4"	Step Lights
	17	20	3#10	1	3/4"	Planters Lighting
	18,19,20	20	3#12	1	3/4"	Lighting Trellis
	21	20	3#12	1	3/4"	Storage area
	22-24	20				Spare
DESIGNATION	CKT NO.	BREAKER			COND UIT SIZE	DESCRIPTION
		AMP	WIRE	POLES		
PANELBOARD PP2 100A 3PH 3W 120/240V	1	20	3#12	1	3/4"	Lighting Concesionary
	2	20	3#10	1	3/4"	Receptacles Concesionary
	3,5	50		2		Spare
	5,7	30				Spare
	8	20	3#12	1	3/4"	Storage area
	9-12	20				Spare



PROPOSED CONCESSIONAIRE LIGHTING LAYOUT  
SCALE 1/2" = 1'-0"



PROPOSED CONCESSIONAIRE POWER LAYOUT  
SCALE 1/2" = 1'-0"



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**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA  
OWNER  
48-2022 PROJECT NUMBER  
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CJQ DRAWN / APPROVED

REVISION  
CONSTRUCTION PHASE  
PROJECT PHASE

CONCESSIONAIRE FLOOR PLAN  
SHEET TITLE

E-100 SHEET NO.



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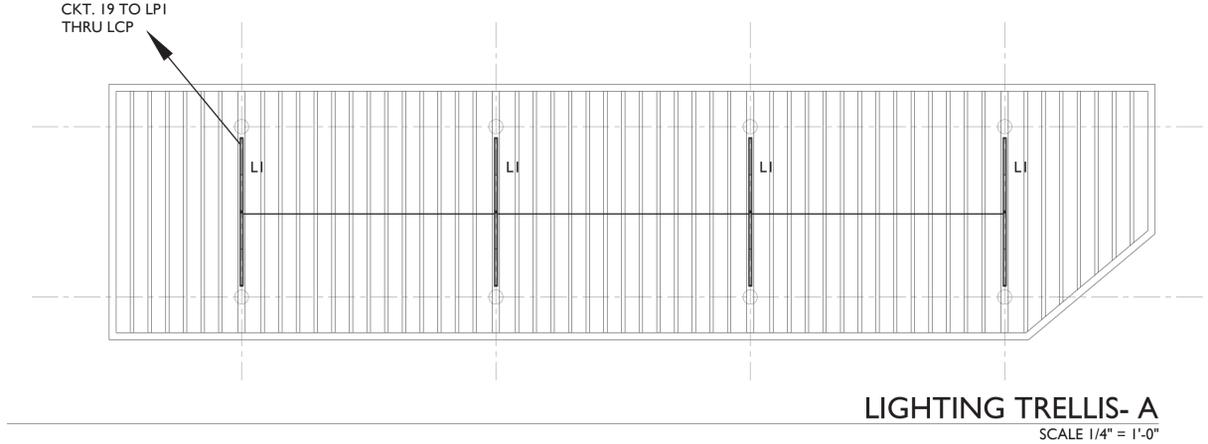
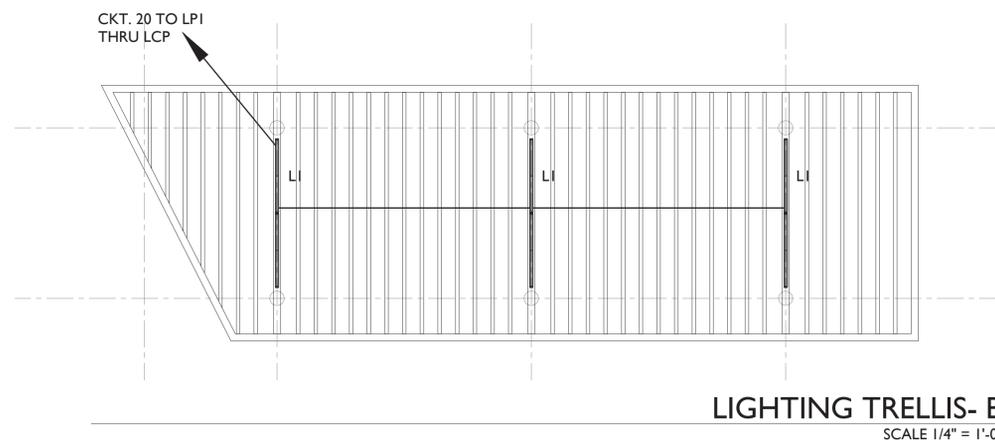
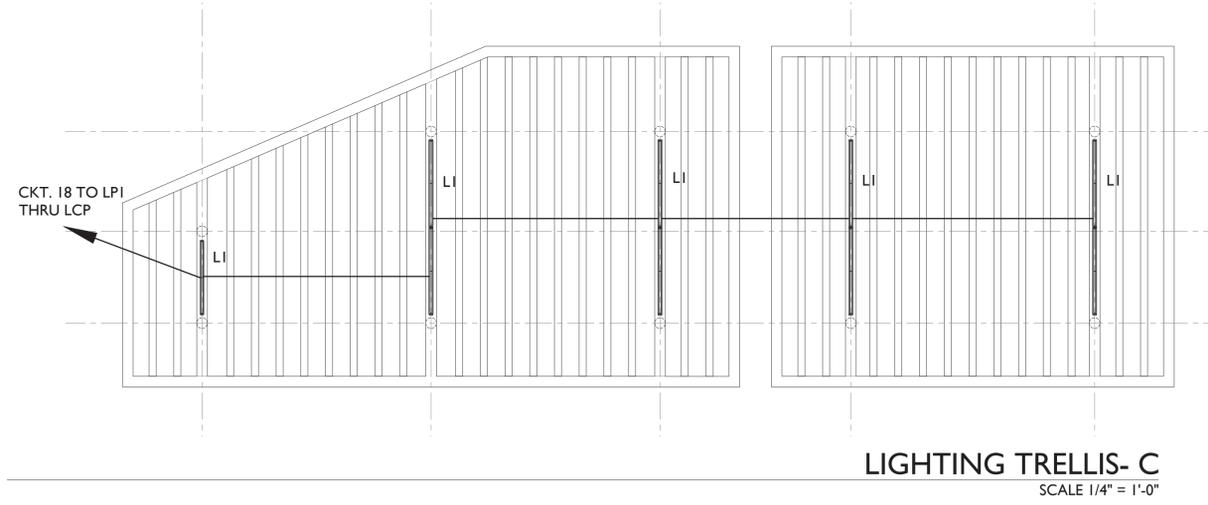
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Yo, FELIX FELICIANO, INGENIERO LICENCIADO 17376, certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Consumo y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Jurisdicciones, Reglamentadoras o Corporaciones Públicas con jurisdicción.

Reconozco que cualquier declaración falsa o falsificación de los hechos que se hizo producido sin conocimiento o por negligencia y si esa por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OIGPA y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OIGPA.

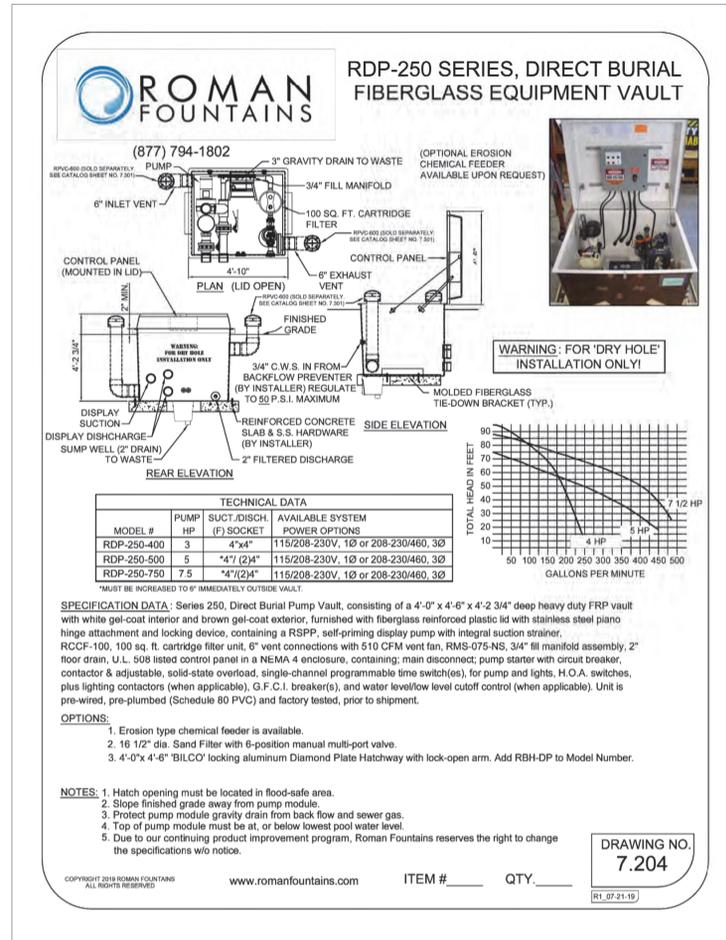
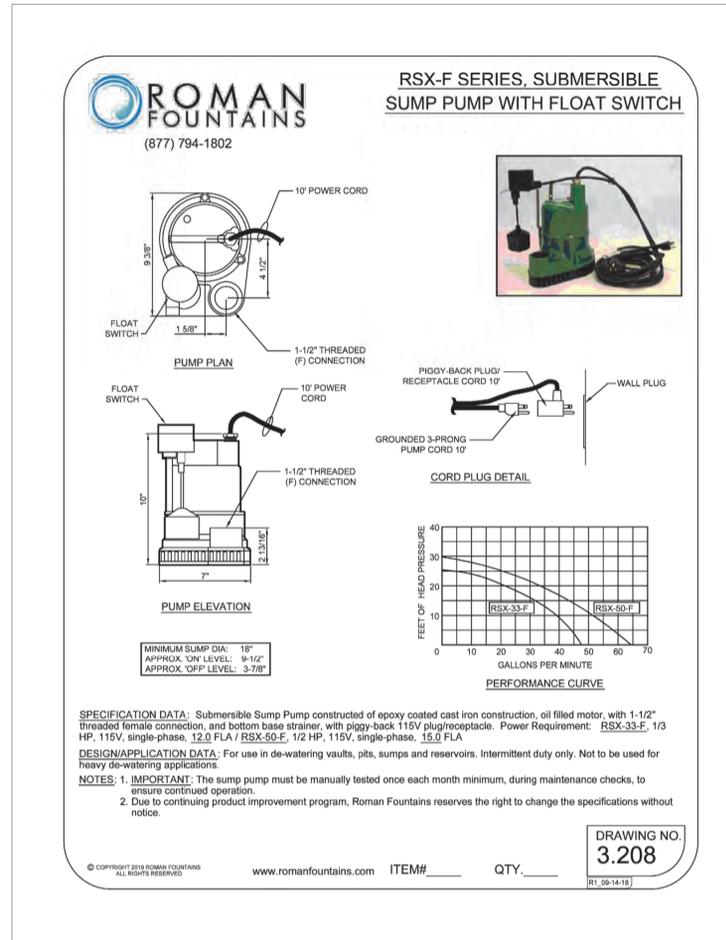
**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA	OWNER
48-2022	PROJECT NUMBER
JANUARY 29, 2024	PRINTING DATE
CJQ	DRAWN / APPROVED
	REVISION
	CONSTRUCTION PHASE
	PROJECT PHASE
TRELLIS ENLARGED DRAWINGS	SHEET TITLE
E-200	SHEET NO.

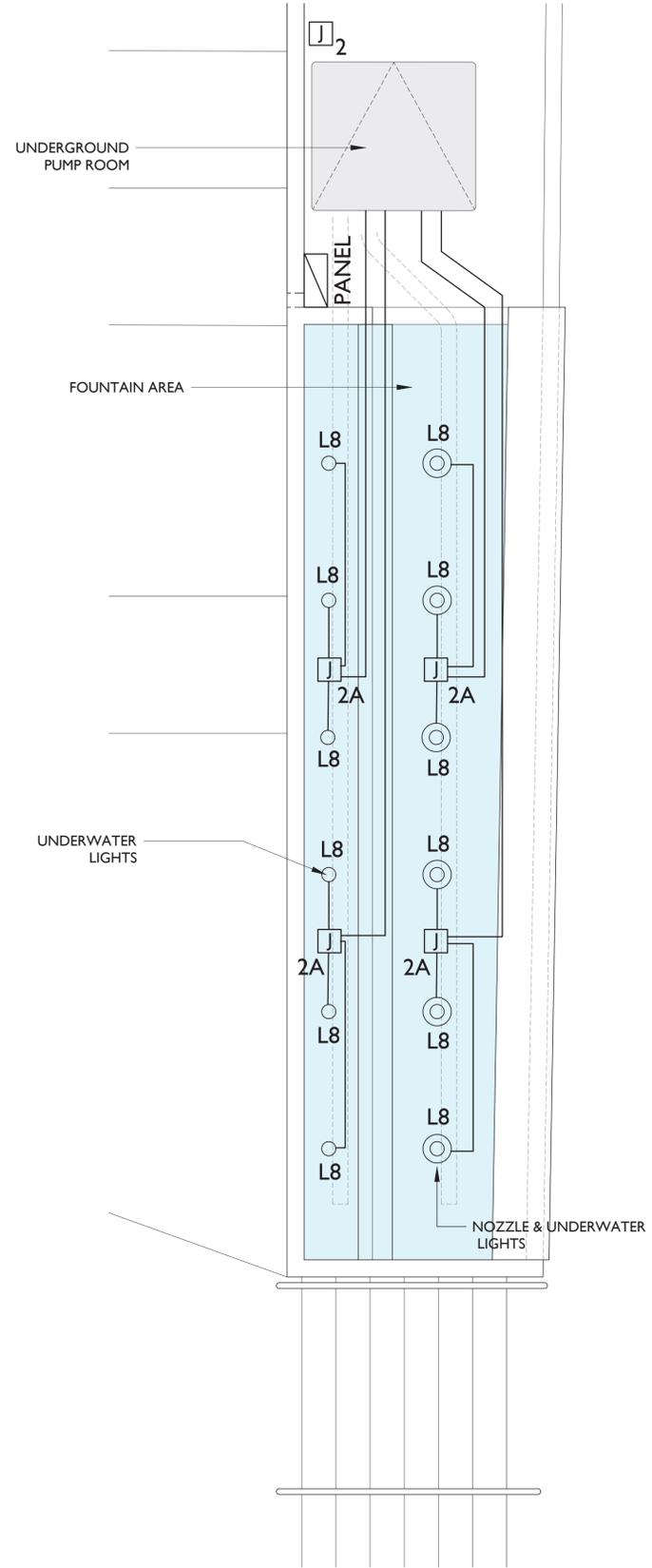






**NOTE:**

- U.L. 508 LISTED CONTROL PANEL IN A NEMA 4 ENCLOSURE, CONTAINING; MAIN DISCONNECT; PUMP STARTER WITH CIRCUIT BREAKER, CONTACTOR & ADJUSTABLE, SOLID-STATE OVERLOAD, SINGLE-CHANNEL PROGRAMMABLE TIME SWITCH(ES), FOR PUMP AND LIGHTS, H.O.A. SWITCHES, PLUS LIGHTING CONTACTORS (WHEN APPLICABLE), G.F.C.I. BREAKER(S), AND WATER LEVEL/LOW LEVEL CUTOFF CONTROL (WHEN APPLICABLE). UNIT IS PRE-WIRED, PRE-PLUMBED (SCHEDULE 80 PVC) AND FACTORY TESTED, PRIOR TO SHIPMENT.



**PROPOSED FOUNTAIN ELECTRICAL LAYOUT**  
SCALE 1/2" = 1'-0"

**Felix A. Feliciano**  
Digitally signed by Felix A. Feliciano  
Date: 2024.01.26 08:54:22 -04'00'



**CERTIFICACION**  
Yo, FELIX FELICIANO, INGENIERO LICENCIADO 17239, certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Consumo y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, Jurisdicciones, Reglamentadoras o Corporaciones Públicas con jurisdicción.

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**BID SET**

**JOSE RAMON FIGUEROA RIVERA PLAZA RENOVATION**  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO

**MUNICIPIO VILLALBA**  
OWNER  
48-2022 PROJECT NUMBER  
JANUARY 26, 2024 PRINTING DATE  
CJQ DRAWN / APPROVED

**FOUNTAIN ELECTRICAL LAYOUT**  
SHEET TITLE  
**E-400**  
SHEET NO.

## GENERAL NOTES

- THESE PLANS MATCH THE PLANS SUBMITTED AT "OFICINA DE GERENCIA DE PERMISOS (OGPe)".
- OWNER IS RESPONSIBLE TO OBTAIN, PRIOR TO THE PROJECT COMMENCE DATE, ALL FEDERAL, STATE, MUNICIPAL AND PRIVATE REQUIRED ENDORSEMENTS, PERMITS AND RIGHT OF WAYS CONCERNING THIS TYPE OF PROJECT.
- OWNER MUST CONTRACT THE SERVICES OF A LICENSED AND REGISTERED ENGINEER WHO SHALL BE RESPONSIBLE OF INSPECTING THE ELECTRICAL WORKS ACCORDING TO LAW NUMBER 7 OF JULY 19, 1985, AS AMENDED AND WITH THE LATEST PREPA'S ELECTRICAL CONSTRUCTION PROJECT PLANS CERTIFICATION REGULATION. OWNER MUST NOTIFY PREPA THE DESIGNATION OF THE PROJECT INSPECTOR BEFORE PROJECT BEGINS.
- ELECTRICAL WORK PERFORMANCE, AS DESIGN IN THESE PLANS, MUST OBSERVE THE BEST ELECTRICAL CONSTRUCTION INDUSTRY PRACTICES IN ACCORDANCE WITH PREPA AND CONCERNING AGENCIES ADOPTED RULES AND REGULATIONS AND WITH THE NEC AND NES CODES AND IEEE, NFPA, NEMA AND ANSI ADOPTED STANDARDS.
- CONTRACTOR IS NOT AUTHORIZED TO MAKE VARIATIONS TO THIS DESIGN. CONTRACTOR IS RESPONSIBLE FOR CONSULTING THE DESIGNER OR THE PROJECT DESIGNATED INSPECTOR OF ANY DOUBT IN PLAN INTERPRETATION, WORK EXECUTION, TECHNICAL SPECIFICATIONS OR DISCREPANCY BETWEEN EXISTING SITE CONDITIONS AND DESIGN CRITERIA CONDITIONS.
- OWNER OR ELECTRICAL CONTRACTOR MUST NOTIFY PREPA THE PROJECT STARTING DATE, BY FILING THE NOTIFICATION OF PROJECT BEGINNING DOCUMENT AT PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT, AT LEAST 15 DAYS PRIOR TO THE PROPOSE DATE.
- DESIGNATED PRIVATE INSPECTOR AND ELECTRICAL CONTRACTOR ARE RESPONSIBLE TO ASSIST THE PRE-CONSTRUCTION MEETING TO BE COORDINATED WITH THE PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.
- ALL WORKS TO BE PERFORMED ON ENERGIZED LINES, INCLUDING THE PROJECT FINAL CONNECTION, MUST BE DONE BY PREPA. PROPONENT MUST ASSUME ALL THE EQUIPMENT, MATERIALS AND LABOR COSTS. PROPONENT MUST REQUEST TO PREPA A JOB ESTIMATE WHICH SHALL BE VALID FOR 3 MONTHS.
- WORK ON THE ELECTRICAL RIGHT OF WAY WITHOUT PREPA'S WRITTEN AUTHORIZATION IS PROHIBITED.
- PREPA WILL NOT APPROVE ANY PROJECT CONNECTIONS THAT INVADES PREPA'S RIGHT OF WAY OR DOES NOT COMPLY WITH THE SECURITY CLEARANCES REQUIRED

## MATERIALS

- ALL EQUIPMENT USED IN THE CONSTRUCTION HAS TO COMPLY WITH IEEE, ANSI, NEMA AND ASTM STANDARDS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY WITH PREPA, PRIOR TO INSTALLATION, THAT ALL MATERIALS AND EQUIPMENTS TO BE USED ARE PREPA APPROVED. PREPA RESERVES THE RIGHT OF ACCEPTING ANY EQUIPMENT TO BE TRANSFERRED TO THEM.
- ALL EQUIPMENT AND MATERIALS (INCLUDING TRANSFORMERS AND SUBSTATION ENCLOSURES) TO BE INSTALLED WITHIN 1 MILE OR LESS OF SALTWATER BODIES SHALL BE CONSTRUCTED IN STAINLESS STEEL, WITH EXCEPTION OF THE METER BASES.
- UNDERGROUND SYSTEMS SHALL USE 15kV PRIMARY CABLE TERMINATIONS FOR DISTRIBUTION VOLTAGES AND 46KV FOR 38KV LINES.
- OVERHEAD SYSTEMS SHALL USE 15KV POLYMER INSULATORS FOR DISTRIBUTION VOLTAGES AND 46KV FOR 38KV LINES.
- CONTRACTOR IS RESPONSIBLE FOR LABELING ALL TRANSFORMERS TO BE TRANSFERRED TO PREPA WITH A PROPERTY NUMBER PROVIDED BY PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.

## SYSTEMS

- IT IS THE OWNER'S RESPONSIBILITY TO PERFORM CABLE TEST TO ALL PRIMARY AND SECONDARY FEEDERS WITH ITS INSULATORS. TEST RESULTS MUST BE IN ACCORDANCE WITH THE PARAMETERS ESTABLISHED BY PREP FOR THE TESTS. TEST MUST BE PERFORM IN COORDINATION WITH THE REPRESENTATIVE OF THE INSPECTION OFFICE FROM THE CORRESPONDING PREPA'S REGIONAL DISTRIBUTION ENGINEERING DEPARTMENT.
- DURING CABLE INSTALLATION, CABLE MUST BE PROTECTED FROM HUMIDITY AND ABRASIONS. CONTRACTOR IS RESPONSIBLE OF INSTALLING CABLES USING RECOMMENDED PULLING TECHNIQUES IN ORDER NOT TO EXCEED SPECIFIED CABLE MAXIMUM PULLING TENSION.
- MANHOLE COVERS TO BE INSTALLED AT PLANTING AREAS, SHALL BE PROTECTED USING A REINFORCE CONCRETE SLAB AS PER PREPA STANDARD URD-52.
- WHEN THE PROJECT IS LOCATED LESS THAN A MILE FROM SALWATER BODIES, POLE RISER CONDUITS MUST BE EITHER PVC SCHEDULE 80 OR FIBERGLASS AS APPROVED BY PREPA.
- UNDERGROUND DUCT BANKS MUST BE INSPECTED BY PREPA BEFORE IT IS COVERED AND COMPACTED FREEFILL.
- ALL DUCT BANKS EXPOSED TO VEHICULAR TRAFFIC SHALL BE PROTECTED WITH A CONCRETE ENVELOPE. THOSE THAT ARE NEAR OTHER UTILITIES INSTALLATIONS MUST MAINTAIN A MINIMUM CLEARANCE OF 13 INCHES.
- CONTRACTOR SHALL SUPPLY THE SAME AMOUNT OF SPARE FUSES AS THE ONES INSTALLED IN EACH SUBSTATION.
- CONNECTORS USE FOR GROUNDING ANTENNAS AND SUBSTATIONS SHALL BE THERMO-WELD O COMPRESSION TYPE.
- CONTRACTOR SHALL PROVIDE PULLING WIRE (FISHWIRE) AT EACH SPARE CONDUIT.
- ALL DISTRIBUTION SYSTEMS SHALL HAVE A MAXIMUM GROUND RESISTANCE OF 10 OHMS. A GROUNDING ROD TO CONNECT THE NEUTRAL CABLE TO GROUND SHALL BE INSTALLED EVERY 4 POLES OR 1,000 FEET AND IN ALL TRANSFORMERS.
- 2 SPARE CONDUITS SHALL BE INSTALLED AT EACH POLE CONCRETE BASE FOR FUTURE USE AS REQUIRED BY PREPA.
- POLE CONCRETE BASE SHALL BE INSPECTED BY PREPA DURING THE CONSTRUCTION PHASE.

## SPECIAL NOTES

- CONTRACTOR SHALL PAY PREP THE AMOUNT OF \$10,000.00 FOR IMPROVEMENTS TO THE EXISTING ELECTRICAL SYSTEM. THIS AMOUNT SHALL BE PAID IN ANY OF OUR COMMERCIAL OFFICES WITH MONEY ORDER OR CERTIFIED CHECK AND SHALL BE CREDITED TO ACCOUNT CIG.
- THE WORKS REQUIRED IN THE PROJECT EVALUATION OF JUNE 22 OF 2018.
- PREPA WILL NOT CONNECT THE PROJECT TO THEIR SYSTEM UNTIL THE OWNER HAS ESTABLISHED THE REQUIRED RIGHT OF WAYS IN ACCORDANCE WITH "REGLAMENTO DE SERVIDUMBRES PARA LA AUTORIDAD DE ENERGIA ELECTRICA". THIS NOTES APPLIES TO ALL REQUIRED RIGHT OF WAYS, INSIDE AND OUTSIDE OF THE PROJECT LIMITS.
- THE INSTALLATION OF METERING SYSTEMS SHALL BE COORDINATED WITH THE MAYAGUEZ REGIONAL METERING OFFICE. THE DESIGNER OR THE ELECTRICAL CONTRACTOR SHALL MAKE SURE TO COORDINATE WITH THIS OFFICE THE EQUIPMENTS AND MATERIALS TO BE USED ANC THE EQUIPMENT LOCATION.
- THE INSTALLATION OF SUBSTATIONS, TRANSFORMERS OR OTHER ELECTRICAL EQUIPMENT OVER SANITARY SEWER, WATER LINES OR OTHER UTILITIES IS PROHIBITED.
- IT IS NECESSARY THAT THE DESIGNER OF ELECTRICAL SYSTEMS THAT REQUIRES METERING EQUIPMENT FOR WHOLESALE ACCOUNTS SHALL COORDINATE WITH PREP ICEE OFFICE FROM THE MAYAGUEZ REGION EVERYTHING RELATED TO THIS EQUIPMENTS. SHALL COORDINATE TYPE OF METER, EQUIPMENT TO BE USED AND THEIR LOCATION.
- THIS PROJECT REQUIRES WHOLESALE ACCOUNT CONTRACT THAT IS REQUIRED TO BE SIGNED BEFORE ENERGIZING THE PROJECT. THE TYPE OF EQUIPMENT, EQUIPMENT TO BE USED ANC THEIR LOCATION WAS PREVIOUSLY COORDINATED WITH THE SUPERVISOR OF THE PREPA ICEE OFFICE FROM THE MAYAGUEZ REGION.
- PREPA WILL INSTALL A 3-WAY SWITCH, 2 POSITIONS WILL BE 1200 AMPS AND 1 POSITION WILL BE 600 AMPS AT THE POLE 12. THE CONTRACTOR OF THE PROJECT WILL PAY 100% OF THE TOTAL COST OF THE 1200 AMPS AND 50% OF THE TOTAL COST OF THE 600 AMPS, INCLUDING MATE 5 Dum.
- AND LABOR. COORDINATE THE DETAILS AND COSTS OF THIS WORKS WITH THE AGUA DISTRICT ENGINEER.



NOTE: All design, drawings and specifications prepared by VÍSURA CSP and its consultants are rights owned by VÍSURA CSP and can not be copy or distributed by other parties other than the designers. VÍSURA CSP waives all copy rights of the project. All unauthorized copies are illegal and delinquents will be prosecuted under a court of law.

CERTIFICATE



PROFESIONAL / CONSULTANT

**Felix A. Feliciano**  
Digitally signed by Felix A. Feliciano  
Date: 2024.01.26 08:54:54 -04'00'

CERTIFICACION

Yo, FELIX FELICIANO, INGENIERO LICENCIADO 17376, certifico que soy el profesional que diseño estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Costuras y las disposiciones aplicables de los Reglamentos y Códigos de las Agencias, juntas, Reglamentadas o Corporaciones Públicas con jurisdicción.

Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido sin conocimiento 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 disciplinaria por la CIGRE y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la CIGRE.

**BID SET**

**JOSE RAMON FIGUEROA  
RIVERA PLAZA RENOVATION  
CALLE MUÑOZ RIVERA # 39, VILLALBA, PUERTO RICO**

MUNICIPIO VILLALBA

OWNER

48-2022

PROJECT NUMBER

JANUARY 26, 2024

PRINTING DATE

CJQ

DRAWN / APPROVED

REVISION

CONSTRUCTION PHASE

PROJECT PHASE

# **Appendix G**

## **Permits**



## Certificación de Cumplimiento Ambiental por Exclusión Categórica

Mejoras a la Plaza Pública de Villalba

### Fecha de Expedición:

06/NOV/2023

### Datos de Localización

De conformidad con las disposiciones contenidas en las leyes y los reglamentos vigentes, se expide la presente Certificación de Exclusión Categórica para la acción(es) antes descrita(s):

#### Dirección Física:

Dirección: CALLE MUNOZ RIVERA NUM. 55  
VILLALBA, PR  
Municipio: Villalba  
Estado: Puerto Rico  
Código Postal: 00766

#### Dueño:

Visura CSP

#### Sometido por:

Visura CSP

#### Calificación

Distrito(s) de Calificación: DT-P  
Distrito en el Mapa de Inundabilidad: X  
Tipo de Suelo: SNS

#### Número(s) de Catastro:

294-082-011-02

### Datos de determinación

#### Exclusión Categórica

Números de exclusión categórica aplicables de acuerdo a la OA-2021-02 del DRNA :  
13,21

#### Fecha de Expedición:

06/NOV/2023

### Condiciones Generales

De acuerdo con la solicitud de esta Determinación, se certificó cumplimiento con los siguientes requisitos, cuyo incumplimiento podrá repercutir en la revocación de esta Determinación:

1. Las actividades de uso o de construcciones livianas de nuevas estructuras no están ubicadas o desarrolladas en:
  - a. Areas especiales de riesgo de inundaciones, derrumbes o marejadas.
  - b. Areas en las que la Junta de Calidad Ambiental (JCA) u otras agencias gubernamentales estatales o federales hayan determinado que existe un grado de contaminación que excede el permitido por los reglamentos vigentes.
  - c. Areas ecológicamente sensitivas o protegidas, según establecido por el Departamento de Recursos Naturales y Ambientales (DRNA), en las que existan especies únicas de fauna o flora o que estén en peligro de extinción o en las que puedan afectarse ecológicamente sistemas naturales o artificiales, ya sea en forma directa o indirecta.
  - d. Areas en las que existan problemas de infraestructura o de deficiencias en los sistemas de servicios de suministro de agua potable, disposición de las aguas sanitarias, suministro de energía eléctrica o capacidad vial para el manejo adecuado del tránsito de vehículos de motor.
  - e. Areas que constituyan yacimientos minerales, conocidos o potenciales.
  - f. Areas en las que existen yacimientos arqueológicos o de valor cultural, según determinado por el Instituto de Cultura Puertorriqueña (ICP).





## Certificación de Cumplimiento Ambiental por Exclusión Categórica

- g. Areas de topografía escarpada, en cuencas hidrográficas donde se puedan afectar fuentes de abasto de agua potable.
- h. Cualquier otra acción que la JCA haya establecido mediante Resolución.
2. No descargarán contaminantes a cuerpos de agua, ni generará desperdicios peligrosos o emisiones al aire que excedan dos (2) toneladas al año de contaminantes de aire criterio, o cinco (5) toneladas de cualquier combinación de contaminantes criterios, ni emitirá al aire contaminantes peligrosos o tóxicos u olores objetables.
3. La disposición o descarga de las aguas usadas se realizará mediante acometidas a un sistema sanitario existente, lo cual requerirá la obtención del endoso de la AAA previo a la solicitud de permisos de construcción.
4. Que existe la infraestructura necesaria (agua potable y alcantarillado sanitario suministrado por la AAA, energía eléctrica, alcantarillado pluvial, vías de acceso) para servir a la operación del proyecto o actividad propuesta, con excepción de los proyectos agrícolas que se ubican por regla general en las áreas rurales, así como las residencias unifamiliares asociadas en las que las instalaciones de esa naturaleza son limitadas.
5. La operación de la actividad no afectará áreas residenciales o zonas de tranquilidad por contaminación sónica según establecido por el Reglamento para el Control de la Contaminación por Ruido.
6. Que el desarrollo de la instalación comercial, industrial, de servicio, institucional y de desarrollo de terrenos para uso turístico y proyectos recreativos no excede de cinco mil (5,000) pies cuadrados de construcción en área total de ocupación y área bruta de piso y que cumple con las condiciones de ubicación y operación establecidas por la OGPe u otra agencia con jurisdicción, según sean aplicables.
7. El uso de edificios o estructuras existentes para facilidades comerciales, almacenes y usos industriales o de servicios no excederán de cien mil (100,000) pies cuadrados en área total de ocupación y área bruta de piso. Dicha operación deberá cumplir con las condiciones de ubicación y operación establecidas por la OGPe u otra agencia con jurisdicción, según sean aplicables, y las establecidas para las exclusiones categóricas en este Reglamento.
8. Para la ejecución o desarrollo de las acciones aprobadas como exclusiones categóricas, se requerirá la obtención de los permisos aplicables de las agencias gubernamentales para las etapas de construcción y operación.
9. La acción no ha sido fragmentada o segmentada para fines de la evaluación y será determinación de la agencia proponente si la misma satisface o no los requisitos para ser considerada y ejecutada bajo una exclusión categórica.
10. Que ha cumplido con el requisito de publicación de un Aviso Público de conformidad con la Regla 122 del Reglamento de Evaluación y Trámite de Documentos Ambientales de la JCA, en el caso que la acción propuesta esté relacionada al uso u otorgamiento de fondos federales que requieran un proceso de evaluación parecido al de NEPA (NEPA-Like Process).
1. Además del cumplimiento con los requisitos establecidos en la Parte III, Inciso A, Sub incisos 1 al 8, sólo se aprobará la acción mediante Exclusión Categórica si la misma cumple con lo siguiente:
1. No descargará contaminantes a cuerpos de agua que requieran la aplicación de un nuevo permiso federal de descarga bajo el programa conocido como el National Permit Discharge Elimination System (NPDES), o de una modificación al existente ni generará desperdicios peligrosos. En el caso de los edificios o estructuras existentes que formen parte de un Parque Industrial propiedad de la Compañía de Fomento Industrial, la acción propuesta no estará sujeta a esta restricción. La acción propuesta no generará emisiones de contaminantes al aire que excedan dos (2) toneladas al año de cada contaminante atmosférico criterio o cinco (5) toneladas de cualquier combinación de contaminantes atmosféricos criterios, ni emitirá al aire contaminantes peligrosos o tóxicos u olores objetables. Una vez alcanzados estos límites de emisión mediante una o varias solicitudes presentadas a través de esta Orden Administrativa, en un periodo de cinco (5) años de haberse alcanzado dichos límites no podrá presentarse una nueva solicitud de exclusión categórica para añadir o modificar fuentes adicionales que conlleven aumentar los límites de emisión de una





## Certificación de Cumplimiento Ambiental por Exclusión Categórica

fuelle existente. En el caso de los edificios o estructuras existentes que formen parte de un Parque Industrial propiedad de la Compañía de Fomento Industrial, la acción propuesta no generará emisiones de contaminantes al aire que excedan diez (10) toneladas al año de cada contaminante atmosférico criterio o cero punto veinticinco (0.25) toneladas de cualquier contaminante atmosférico peligroso (HAP, por sus siglas en inglés) o una (1) tonelada de cualquier combinación de contaminantes atmosféricos peligrosos. Una vez alcanzados estos límites de emisión mediante una o varias solicitudes presentadas a través de esta Orden Administrativa, en un periodo de cinco (5) años de haberse alcanzado dichos límites no podrá presentarse una nueva solicitud de exclusión categórica para añadir o modificar fuentes adicionales que conlleven aumentar los límites de emisión de una fuente existente.

2. No se fragmentará o segmentará la acción propuesta en diferentes etapas con el fin de evadir los requerimientos de un documento ambiental.
3. En el caso de que la acción propuesta esté afectada por el uso u otorgamiento de fondos federales que requieran un proceso de evaluación parecido al de NEPA (NEPA-Like Process), el proponente deberá asegurarse que ha cumplido con los requisitos del reglamento de documentos ambientales del DRNA.
4. La acción cumple con los niveles de ruido y emisión de luz artificial, según establecido por los respectivos reglamentos promulgados por el DRNA o cualquier legislación aplicable.
5. No se realizará actividad alguna dentro de un cuerpo de agua, a menos que sea una obra de dragado de mantenimiento, mitigación, investigación, medición, monitoreo o remediación ambiental.
6. La acción propuesta ubica en un área donde no existen problemas de infraestructura relacionada con los servicios de energía eléctrica, agua potable, alcantarillado sanitario, alcantarillado pluvial y la capacidad vial para los accesos.
7. La acción propuesta deberá cumplir con cada uno de los requisitos específicos que le son de aplicabilidad.

### Aviso

Si luego de haberse aquí dado cumplimiento con el Artículo 4(B) de la Ley Núm. 416 surgieran variaciones sustanciales en la acción propuesta que requieran la evaluación a los impactos ambientales, habrá que presentar el correspondiente documento ambiental, de conformidad con la Ley sobre Política Pública Ambiental.

### Condiciones Especiales

### Firma / Sellos

**Fecha de Expedición:**

06/NOV/2023



**Lcdo. Félix E. Rivera Torres**  
**Secretario Auxiliar de la OGP**





## Recomendaciones

Mejoras a la Plaza Pública de Villalba

### Datos de Localización

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

#### Dirección Física

CALLE MUNOZ RIVERA NUM. 55 , PR  
Villalba Puerto Rico, 00766

#### Número(s) de Catastro

294-082-011-02

#### Calificación

Distrito(s) de Calificación: DT-P

Distrito en el Mapa de Inundabilidad: X

Tipo de Suelo: SNS

#### Dueño

Visura CSP

#### Certificado por

Ingeniero : Carlos Quinones Maymi, Lic. No. 18892

#### Cabida

Cabida según escritura: 536.81 metros cuadrados

### Infraestructura

La Autoridad de Energía Eléctrica (Ahora LUMA) emite certificación de Planos de Construcción Eléctrica junto con planos endosados para el Proyecto propuesto.

### Condiciones Especiales

NINGUNA

### Condiciones Generales

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

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





## Recomendaciones

Mejoras a la Plaza Pública de Villalba

## Firma / Sellos

### Fecha de Expedición:

03/APR/2024



**Lcdo. Félix E. Rivera Torres**  
**Secretario Auxiliar de la OGPe**





## Recomendaciones

Mejoras a la Plaza Pública de Villalba

### Datos de Localización

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

#### Dirección Física

CALLE MUNOZ RIVERA NUM. 55 , PR  
Villalba Puerto Rico, 00766

#### Número(s) de Catastro

294-082-011-02

#### Calificación

Distrito(s) de Calificación: DT-P

Distrito en el Mapa de Inundabilidad: X

Tipo de Suelo: SNS

#### Dueño

Visura CSP

#### Certificado por

Ingeniero: Carlos Quiñones Maymí, Lic. No. 18892

#### Cabida

Cabida según escritura: 536.81 metros cuadrados

### Infraestructura

La Autoridad de Energía Eléctrica (Ahora LUMA) mediante carta del 7 de febrero de 2024 emite sus recomendaciones y/o requerimientos para el Proyecto propuesto.

### Condiciones Especiales

NINGUNA

### Condiciones Generales

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

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





## Recomendaciones

Mejoras a la Plaza Pública de Villalba

## Firma / Sellos

### Fecha de Expedición:

09/FEB/2024



**Lcdo. Félix E. Rivera Torres**  
**Secretario Auxiliar de la OGPe**



## Notificación de Requisitos para Aprobación de Permiso de Construcción

Mejoras a la Plaza Pública de Villalba

### Datos de Localización

#### Dirección Física

CALLE MUNOZ RIVERA NUM. 55 VILLALBA, PR  
, Villalba, Puerto Rico

#### Número(s) de Catastro

294-082-011-02

#### Materiales de Construcción

Hormigón Armado y Bloques  
Madera Combinaciones

#### Área

Cabida de los desarrollos: 536.8100 m<sup>2</sup>

Área Bruta de Construcción: 30035.00 p<sup>2</sup>

#### Dueño

Visura CSP

#### Proyectista

Ingeniero Carlos Quiñones maymí Lic. No. 18892

#### Tipo de Solicitud

Nueva

#### Estimado de Costo de la Obra (\$USD)

Costo Estimado (Original) \$2,600,000.00

Costo Estimado (OGPe) \$3,587,045.00

Diferencia \$987,045.00

### Asunto

MEJORAS A LA PLAZA PÚBLICA DE VILLALBA

### Requerimientos

Estimado(a) : Ingeniero Carlos Quiñones maymí Lic. No. 18892

Por medio de esta notificación se le informa que para que se le otorgue una aprobación final a su solicitud, tendrá que cumplir con las condiciones señaladas a continuación:

1. Someter la Certificación para el Trámite de Permiso de Construcción o Urbanización (Póliza Eventual), según formalizado en la Oficina correspondiente de la Corporación del Fondo del Seguro del Estado.
2. Someter evidencia de que se han satisfecho los arbitrios municipales correspondientes a esta obra, de conformidad con la Ley Núm. 88 del 24 de junio de 1971, copia del decreto de exención como evidencia de que le es de aplicación al Artículo 2, Sección C de la Ley de Incentivos Contributivos de 1987, Ley Número 8 del 24 de enero de 1987, según enmendada, o certificación al efecto de la Oficina de Exención Contributiva Industrial del Departamento de Estado.
3. Someter una foto del rótulo que identificará la construcción (debidamente instalado) a tenor con lo dispuesto en el Reglamento Conjunto vigente. Será responsabilidad del desarrollador la instalación de un rótulo con tamaño mínimo de 2' x 4' en la entrada principal de la propiedad que incluya lo siguiente: número de solicitud, tipo de solicitud presentada, nombre del dueño y proponente de la obra, dirección postal y electrónica de la OGPE o Municipio Autónomo para comentarios sobre la solicitud.
4. Someter copia firmada de la siguiente información de la obra:
  - a. Fecha de comienzo de la obra.
  - b. Tiempo de construcción
  - c. Número de empleos directos a crear.



## Notificación de Requisitos para Aprobación de Permiso de Construcción

### Condiciones Especiales

NINGUNA

### Aviso

Es de entenderse que esta notificación no es autorización ni permiso para iniciar las obras de construcción y que la vigencia de esta notificación está limitada por el Reglamento Conjunto vigente, según facultado por la Ley Núm. 161 de 1 de diciembre de 2009 para la Reforma del Proceso de Permisos de Puerto Rico, según enmendada. Esta notificación quedará sin efecto a los 6 meses, a partir de la fecha de expedición.

### Firma / Sellos

#### Fecha de Expedición:

16/04/2024

