# Environmental Assessment
# Determinations and Compliance Findings for HUD-assisted Projects
# 24 CFR Part 58

## Project Information

**Project Name:** Proyecto Residencial Comercial Pisos de Coamo FS26 (PR-CRP-000145)

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

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

**State/Local Identifier**: Puerto Rico / Municipality of Coamo

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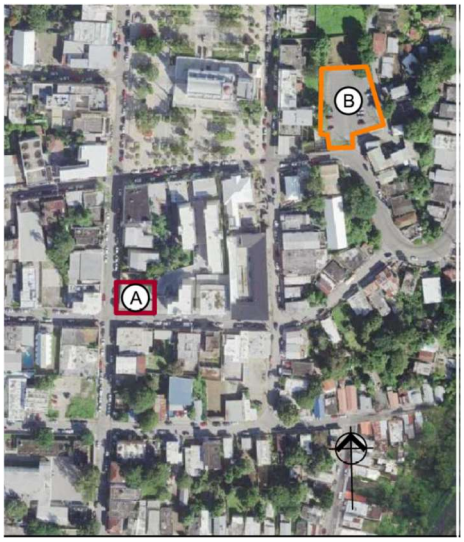
**Consultant** (if applicable): ICF

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

**Project Location**:

26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, P R,
Cadastral Number: 345-033-046-09-001; Site coordinates: 18.079420, -66.356738

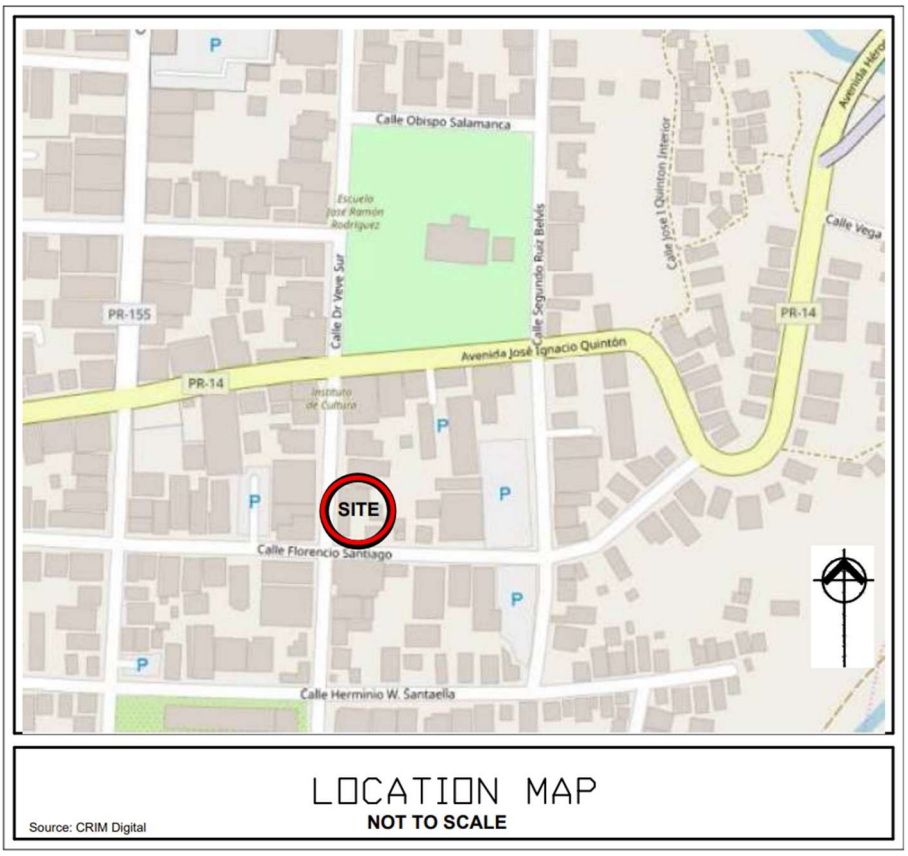
## Project Site and Project Staging Area (Aerial Photo and Street Photo)




**Not to scale**

LEGEND:
A PROJECT SITE
B PROJECT DESIGNATED STAGING AREA
Source:
Catastro Digital
https://catastro.crimpr.net/cdprpc/

Project Site Photo: Looking to the corner of Dr. José C. Barbosa St. (left side of the photo) and Florencio Santiago St. (right side of the photo) Source: Medina, N. (2023)



**Description of the Proposed Project** [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The Pisos de Coamo project will be located at 26 Florencio Santiago Street, within the Historic Zone of the Traditional Urban Center of the Coamo municipality. This is a municipal initiative aimed at revitalizing the urban area. The land for the project was acquired by the Municipality in 2019. It is a 0.1105 acres (4,812 sq. feet or 477 sq. meters) parcel bordered by Florencio Santiago Street to the south, Dr. José Celso Barbosa Street to the west, Egida Plaza Apartments to the east, and the historic Borelli House to the north. The project involves constructing a three-story mixed-use building totaling approximately 11,880 sq. ft. The first floor (4,810 sq. ft.) will feature a commercial space, a main residential entrance with support areas, a two-bedroom accessible apartment, and a small patio with a garden, and trash station. The second and third floors (each 3,535 sq. ft.) will house three residential apartments per level, ranging from 821 to 1,288 sq. ft., with layouts including two to three bedrooms, bathrooms, living and dining areas, kitchens with islands, laundry spaces, linen closets, walk-in closets, and balconies. Each floor will also have a common area with stair access and utility spaces. The rooftop will serve as a recreational area with a gazebo for residents. Roof drainage will be conducted through 2-inches to 4-inches embedded pipes in walls, through sidewalks and free discharges to Jose Celso Barbosa (west) and Florencio Santiago (south) streets.

Since the project site is relatively small and located within the very compact urban fabric of the historic center, where there is no available space for the location of a staging area, the Municipality of Coamo made available a space for the staging area in one of its properties, within the urban center. The staging area will be in a municipal parking lot, located three blocks to the northeast of the project site. This municipal site, located in the east peripheral limit of the historic center, is a large empty lot, asphalt paved with a peripheral chain link fence with an entrance gate.

**Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:**
The Pisos de Coamo project is a key initiative within the Coamo Urban Center Revitalization Plan, designed to address critical housing and community development needs in response to the population exodus, abandonment of structures and parcels of land, economic stagnation, and infrastructure underutilization in the Historic Zone of Coamo. This initiative aligns with the municipal efforts to restore economic vitality, repopulation, enhance housing accessibility, and encourage sustainable urban development in the wake of Hurricanes Irma and María, within the Urban Center, which heightened the demand for secure, resilient, and well-located housing.

The proposed action consists of the construction of a compatible mixed-use building that will provide seven residential units and a commercial space, contributing to the repopulation of the urban center by integrating new affordable and accessible housing into the existing community, within an environmentally secure location for the new residents. The project will revitalize an abandoned parcel while ensuring compatibility with the area's historic and cultural character, as required by the Institute of Puerto Rican Culture (ICP).

By strategically developing infill housing within an established urban area, the project optimizes existing municipal infrastructure and services, reducing the need for expansion into undeveloped or ecologically sensitive land. Residents will benefit from proximity to essential services, public

amenities, and public transportation, fostering a pedestrian connected community, reducing the need for vehicle transportation, therefore contributing to lowering the fossil fuels footprint.

Furthermore, the Pisos de Coamo project will support broader community development goals, including economic stimulation, historic preservation and environmental sustainability. As part of the Municipality's ongoing revitalization efforts, which include infrastructure improvements, commercial activity restoration and cultural site preservation, this project directly contributes to revitalizing Coamo's Historic Zone, ensuring long-term community growth while preserving its historical and architectural heritage.

**Existing Conditions and Trends [24 CFR 58.40(a)]:**
The Pisos de Coamo project will be developed on what was an abandoned lot for a long time within Coamo's Historic Center. It was bought by the Municipality of Coamo in 2019. The site is surrounded by a mix of residential, commercial, and institutional uses, including municipal and private housing developments, a fully occupied independent living elderly building, infill housing units, businesses, cultural institutions (such as the municipal museum and theater), public offices, and healthcare facilities. Additionally, the Posada San Blas hotel is being developed on a nearby street, contributing to the area's revitalization.

Currently, the site contains two deteriorated structures: an aluminum roof with steel supports and a small, abandoned concrete and wood structure, both of which were originally constructed to accommodate a car dealership in the 1990s. These structures lack historical, artistic, or architectural significance and are in a state of total disrepair, posing a risk of becoming a slum if left undeveloped.

Without the Pisos de Coamo project, the site would likely remain vacant and underutilized, failing to contribute to the economic and social revitalization of the urban center. The absence of development could lead to further physical deterioration, negatively impacting the surrounding area, contributing probably to more population exodus from the historic zone.

This project will restore residential and commercial activity to the area; increase the affordable housing stock, prioritizing families impacted by Hurricanes Irma and María. Located in Census Tract 9543, where 57% of families are classified as moderate and low-income, the project will directly contribute to improving living conditions by providing new comfortable housing units with recreational facilities on the roof top and by creating small business with jobs opportunities in an area in need of economic investment and sustainable growth.

## Funding Information

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

**Estimated Total HUD Funded Amount:** $2,112,625.37

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: $2,112,625.37

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

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

| Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6 | Are formal compliance steps or mitigation required? | Compliance Determinations |
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| **STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6** | | |
| **Airport Hazards**<br><br>24 CFR Part 51 Subpart D | Yes ☐ No ☒ | The project is not located within an FAA-designated civilian airport Runway Protection Zone (RPZ), or Accident Potential Zone (APZ). The project is not within 15,000 feet of a military airport nor 2,500 feet of a civilian airport. The nearest civil airport is Merceditas Regional Airport in Ponce and is approximately 73,390 feet measured from the project boundary to the runway. The nearest military airport is Luis Muñoz Marín (SJU) Joint Military Airfield Muñiz Air National Guard, approximately 175,105 feet measured from the project boundary to the runway (see **Attachment 1)**. Therefore, the project is in compliance with 24 C.F.R. Part 51, Subpart D. |
| **Coastal Barrier Resources**<br><br>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501] | Yes ☐ No ☒ | The proposed project is not located within a Coastal Barrier Resources Unit (CBRS). The nearest CBRS unit (PR-49P) is approximately 40,110 feet from the project area **(see Attachment 2)**. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. |

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| **Flood Insurance**<br><br>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a] | Yes ☐ No ☒ | The project site is located in an Area of Minimal Flood Hazard [Zone X], which is outside the Special Flood Hazard Area (SFHA)/ 100-year floodplain as designated in Flood Insurance Rate Map (FIRM), panel number 72000C1705H, effective date 4/19/2005. Therefore, the project does not require flood insurance in accordance with the Flood Disaster Protection Act of 1973 and the National Flood Insurance Reform Act of 1994. Documentation demonstrating the location outside the SFHA has been included in **Attachment 3.** The project is in compliance with 42 U.S.C. §§ 4001-4128 and 42 U.S.C. § 5154a. |
| **STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5** | | |
| **Clean Air**<br><br>Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93 | Yes ☐ No ☒ | According to the U.S. Environmental Protection Agency's (USEPA) Online Green Book, the project site is located in an area designated as an "attainment" area for all criteria pollutants, therefore Coamo meets the National Ambient Air Quality Standards (NAAQS) set by the USEPA. The nearest non-attainment district is in located in Salinas, which is in a non-attainment for $SO_2$ (2010 standard) and is located approximately 25,850 feet from the project area.<br><br>Typically, construction activities such as cleaning, grubbing, earth movement and the demolition of structures produce particulates and conditions in which soil could be exposed to wind erosion and airborne particulates. During construction the proposed action could generate emissions (particulate material, hydrocarbons, nitrogen oxide, and sulfur dioxide, among others) in addition to those produced during the operation of the existing roads of the area. For the most part those emissions would be produced by the operation of the heavy equipment and machinery used during the construction process.<br><br>Potential air quality impacts are primarily short-term and incidental to the construction process. Implementation of construction related air pollution controls (fugitive dust control and heavy equipment emissions controls) will help to control |

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| | | and mitigate potential air emissions impact. The impact on air quality will be temporary and will not be a significant impact on the residential, institutional, and commercial properties located near the project area.<br><br>Therefore, the project is in compliance with the Clean Air Act, as amended, particularly section 176(c) and (d); 40 C.F.R. Parts 6, 51, and 93.<br>**See Attachments 4A-B**. |
| **Costal Zone Management**<br><br>Costal Zone Management Act, sections 307(c) & (d) | Yes ☐ No ☒ | The project is not located within a Coastal Zone, delineated by the Puerto Rico Planning Board (PRPB) and the Puerto Rico Coastal Zone Management Program (PRCZMP). The project site is located 34,645 feet north of the nearest coastal zone as delineation, defined by PRCZMP. Therefore, the project is in compliance with the Coastal Zone Management Act, sections 307(c) and (d).<br>**See Attachment 5.** |
| **Contamination and Toxic Substances**<br><br>24 CFR Part 50.3(i) & 58.5(i)(2) | Yes ☒ No ☐ | According to the information provided on page 13 of the Effect Determination Form for Historic Preservation evaluation, (see **Attachment 11**), in a 1936 aerial photo, a residence can be seen on the project parcel. This residence was demolished in the mid-1940's and a second house was built soon thereafter. This second house seems to have been demolished in the mid-1990's. Currently, the site contains two deteriorated structures**:** an aluminum roof with steel supports and a small, abandoned concrete and wood structure, both of which were originally constructed to accommodate a car dealership in the 1990s. Since its acquisition by the municipality, the site has been used as a parking lot.<br><br>Information from the Environmental Protection Agency's NEPAassist, Envirofacts, and EPA Echo information, show a total of 10 registered facilities were identified within a 3,000-ft radius from the project site. This includes 7 sites identified for hazardous waste (RCRA) and 3 for water discharges (CWA). No violations were identified in the database for the project site. The sites with environmental activities listed by the |

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| | | EPA within a 3,000 feet radius of the proposed project are not expected to conflict with the intended use of the property or the proposed construction activities. Also, none of these sites are directly adjacent to the project. **Attachment 6** includes the general location of the facilities and facility reports for each site.<br><br>Throughout the Phase I Environmental Site Assessment (ESA) prepared for the project site, the following areas stand out as possible areas of concerns:<br><br>• Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP)<br>• Leaking Underground Storage Tanks (LUST) sites<br>• Other conditions (stains)<br><br>Regarding ACM and LBP, the report indicates in section 7.2 Opinions:<br><br>"Although not identified as Recognized Environmental Conditions (RECs), asbestos-containing materials (ACM) and lead-based paint (LBP) have not yet been evaluated at the subject property. Given the planned demolition activities, conducting assessments for ACM and LBP is strongly recommended to comply with regulatory standards and prevent potential exposure risks."<br><br>ACM and LBP testing will be included as a condition prior to site development. See mitigation measures and conditions for section of the EA checklist.<br><br>Regarding LUST sites, the Phase I ESA report confirms that the project site is not listed in any regulatory databases, and no Superfund Enterprise Management System (SEMS) sites were identified within a one-mile (5,280 ft) radius. Two (2) "orphan" sites associated with Leaking Underground Storage Tanks (LUSTs) (SANTIAGO S/S and GPR #5246) were identified. The EDR radius map report provides approximate addresses for these sites. However, their |

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| | | approximate locations were further evaluated with Puerto Rico's Planning Board interactive map (MIPR) and the Puerto Rico Department of Natural and Environmental Resources (DRNA) database of LUSTs. Both sites appear in the Inactive DRNA LUST list, the estimated distance to the site is 0.95 miles (5,016 ft) (see section 4.1.7 of the Phase I ESA). The Phase I ESA report indicates the following for both sites: "the site is located beyond the 0.25-mile (1,320 ft) search radius. Given its estimated distance and position relative to the subject property, this site does not represent a significant environmental concern."<br><br>Another UST was identified in DRNA listings and in the UST EDR Radius map report with GeoCheck, located within 0.25 miles (1,320 ft) of the property. This was facility name Texaco #819 with facility ID 86-1975. This site is also included in the MIPR database. This site is within 0.03 miles (158 ft) of the subject property. However, "the site is listed on the Inactive Sites LUST List of 2020 of the DRNA and is permanently out of use." According to the Phase I ESA. Finally, it should be noted that none of the UST sites identified in the Phase I ESA report are in the 2024 Active LUST listing.<br><br>Stains were identified on the ground during the site visit, as indicated in the Phase I ESA (p.21):<br><br>> The site inspection revealed no additional evidence of hazardous substances, petroleum products, underground or aboveground storage tanks, or PCB usage. Visual inspection identified surface stains onsite. It is an impermeable surface (asphalt); thus, no contaminant migration is anticipated. The property owner had no knowledge of when or what caused the stains. Therefore, although noted, the stains do not appear indicative of a significant release of hazardous substances. As a precaution, further visual or analytical evaluation is recommended before any site redevelopment.<br><br>The Phase I ESA does not identify any Recognized |

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| | | Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), or Historical Recognized Environmental Conditions (HRECs) were found, the ESA recommends further investigation for Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP) before demolition or construction begins.<br><br>An addendum to the Phase I ESA report was issued on September 8, 2025 to clarify information related to the soil stains and provide recommendations. The memo indicates:<br><br>These stains are consistent with the property's historical use as a car dealership.<br><br>The stains on the pavement were isolated spills and do not pose a health or safety risk to future occupants, nor do they interfere with the proposed use of the property.<br><br>It is recommended that, during demolition and construction activities, any asphalt sections affected by oil stains be removed along with the pavement and disposed of in authorized facilities for construction and demolition waste. If the presence of hydrocarbons in the subsoil is detected during excavation activities, an additional environmental assessment with appropriate sampling is recommended to confirm whether a plume was present or is local, if necessary.<br><br>Therefore, the excavation and removal of the stained surfaces will need to be monitored to address if additional sampling is needed.<br><br>Radon was determined to be a low risk for this project. 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<br><br>• United States Geological Survey; |

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| | | • Centers for Disease Control and Prevention;<br>• Puerto Rico Department of Health; and<br>• United States Environmental Protection Agency<br>The agencies above confirmed the lack of scientific data on radon testing; therefore, radon testing is impractical and infeasible. Supporting documentation is included in Attachment 6.<br>In conclusion, the project does not pose significant environmental risks, but an asbestos and lead study must be conducted before any demolition or ground-disturbing activities occur. All mitigation measures will follow applicable environmental regulations. Please refer to the Phase I ESA report and supporting documentation. This project is in compliance with Contamination and Toxic Substances requirements.<br>**See Attachments 6A-E.** |
| **Endangered Species**<br><br>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402 | Yes ☒ No ☐ | According to the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, there are no critical habitats at the project site. A No Effect memo and supporting documentation was prepared on 8/20/2024. This package outlines the lack of critical habitat present and the determination that the project will have No Effect on Threatened or Endangered Species. The nearest critical habitat is located 40,045 feet from the project site. Due to the scope of the activities involved and its location, the project will not impact any federally listed species or their habitats. However, if a Puerto Rican Boa is encountered at the site, all work must cease until the snake moves off on its own. If it does not, the Construction Manager (CM) must contact the Puerto Rico Department of Natural and Environmental Resources (DNER) to safely relocate the Boa. As such, the project is in compliance with the Endangered Species Act of 1973, particularly section 7; 50 C.F.R. Part 402.<br>**See Attachments 7A-B**. |

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| **Explosive and Flammable Hazards**<br><br>24 CFR Part 51 Subpart C | Yes ☐ No ☒ | The proposed project involves redeveloping a vacant lot into a three-story mixed-use building, which will include seven residential units and a commercial space. A review of regulatory databases and a site reconnaissance confirmed that there are no aboveground storage tanks (ASTs) on the project site. However, an emergency-power generator unit (EGU) was identified on the adjacent property to the east, within the Plaza Apartment complex. This EGU includes an integrated sub-base tank with a capacity of 400 gallons, as confirmed by a memorandum provided to the municipality by the apartment complex's designer (see Attachment 8).<br><br>The memorandum indicates that the tank is equipped with a fire-resistant cover and complies with National Fire Protection Association (NFPA) codes. According to HUD regulations, the Acceptable Separation Distance (ASD) for a tank of this type is 188.81 feet for thermal radiation affecting people and 32.92 feet for buildings. Based on the information provided, the proposed building is located beyond the 32.92-foot threshold for structures. However, areas intended for public use—such as a courtyard with benches on the east side of the Pisos de Coamo building—fall within the 32.92-foot radius.<br><br>A reinforced concrete wall separates the project site from the Plaza Apartments. This wall, which already exists and will be maintained as part of the project design, measures 6 feet-6 inches in height and 8 inches in thickness. According to Table 722.2.1.1 of the International Building Code, it has a fire resistance rating exceeding 4 hours. The presence and preservation of this wall effectively mitigate the thermal radiation ASD, and therefore, no additional mitigation measures are required. Additionally, the proposed building itself will act as a barrier for areas beyond the 32.92-foot radius.<br><br>Based on this assessment, the project complies |

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| | | with HUD's requirements regarding explosive and flammable hazards.<br>See **Attachment 8** for supporting documents. |
| **Farmlands Protection**<br><br>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658 | Yes ☐ No ☒ | The project does not involve any activities that would convert agricultural land to non-agricultural use. The project does not include new construction on farmland, acquisition of undeveloped land, or changes to land use that would impact agricultural resources. The area in question is considered Urban Land. Instead, the project is focused on redevelopment and adaptive reuse within Coamo's Historic Zone, an already urbanized area. Given that the project remains within existing municipal boundaries and does not affect farmland, no mitigation or consultation is required. Therefore, the project is in compliance with the Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 C.F.R. Part 658.<br>**See Attachment 9.** |
| **Floodplain Management**<br><br>Executive Order 11988, particularly section 2(a); 24 CFR Part 55 | Yes ☐ No ☒ | A review of the Advisory Base Flood Elevation (ABFE) map confirms the site is not within a special flood hazard area. Given the project's location outside the 100-year floodplain, no further floodplain mitigation measures are required. Therefore, the project is in compliance with Executive Order 11988.<br>**See Attachment 10.** |
| **Historic Preservation**<br><br>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800 | Yes ☒ No ☐ | Due to its location within the Traditional Urban Center, the project site has been thoroughly studied. Initially a Phase IA/IB archaeology assessment was completed on 03/23/2020.<br>The Section 106 Effect Determination Form (EDF) was prepared and submitted to the PR SHPO on 2/12/2025. The response received on 3/1/2025, identified the need for a Phase II archaeology survey. The Phase II archaeology survey end of field work report was completed on 4/4/2025 and submitted to the SHPO for review. SHPO correspondence dated 5/12/2025 found the report acceptable. The final report dated |

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| | | 4/30/2025 was then submitted and approved by the SHPO on 6/17/2025. The project will require an archaeological monitory, the plan for which was approved by the SHPO on 6/26/2025, during the excavation activities of the construction.<br><br>The project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 C.F.R. Part 800.<br><br>**See Attachment 11.** |
| **Noise Abatement and Control**<br><br>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B | Yes ☐ No ☒ | The Pisos de Coamo project does not introduce new permanent noise sources that would interfere with current residential or commercial uses in the areas around the project site. However, the scope of the project involves new residential construction, so noise analysis is required in accordance with 24 CFR § 51.103.<br><br>The site is located approximately 73,135 feet (13.90 miles) from Mercedita International Airport. A HUD airport noise worksheet was completed based on the most recent airport operations data. The findings were "the noise attributed to the airplanes will not extend beyond the boundaries of the airport."<br><br>A review of major roadways found the nearest major roadway is a portion of PR-14 from Km 33.5 to Km 33.85. This section of PR-14 exceeds the 10,000 annual average daily traffic (AADT) threshold. PR-14 is classified as a small urban minor arterial roadway connecting Coamo with Ponce and Aibonito. Km 33.5 of PR-14 is approximately 687.31 feet from the project area. A DNL calculation was performed, and the noise level was found to be within the acceptable range.<br><br>There are no railways within 3,000 feet of the project site. The Tren Urbano is approximately 134,556.63 feet from the project area, well outside the 3,000-ft threshold. There are no concerns regarding railway noise for this project.<br><br>The temporary noise generated during construction will primarily come from equipment operation but is expected to remain within |

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| | | acceptable levels and will be managed by the contractor to be limited to daytime to avoid nuisance to the surrounding neighborhood.<br><br>Therefore, the project is in compliance with the Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 C.F.R. Part 51, Subpart B.<br><br>**See Attachment 12.** |
| **Sole Source Aquifers**<br><br>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149 | Yes ☐ No ☒ | According to the Environmental Protection Agency (EPA), there are no Sole Source Aquifers (SSA) in Puerto Rico, and the project is not within an SSA watershed. The nearest SSA area is located in the state of Florida and is approximately 5,416,524 feet from the project area. The activities involved in the project are unlikely to have any adverse impact on groundwater resources.<br><br>Therefore, the project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 C.F.R. Part 149.<br><br>See **Attachment 13**. |
| **Wetlands Protection**<br><br>Executive Order 11990, particularly sections 2 and 5 | Yes ☐ No ☒ | According to the National Wetlands Inventory (NWI) mapping, no wetlands are present on the project site. The nearest wetland, the Coamo River, is approximately 805 ft from the project site. The project will not impact any federally or locally designated wetlands, and no consultation with island or federal agencies is required. Therefore, the project is in compliance with Executive Order 11990, particularly sections 2 and 5.<br><br>**See Attachment 14**. |
| **Wild and Scenic Rivers**<br><br>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c) | Yes ☐ No ☒ | Puerto Rico has only two designated Wild and Scenic Rivers, both located within El Yunque National Forest on the eastern side of the island. The proposed project is located in Coamo, which is approximately 221,485 feet from the Río Mameyes in El Yunque. Given this significant distance, the project will not impact any designated Wild and Scenic Rivers. Therefore, the |

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| | | project is in compliance with Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c).<br>**See Attachment 15.** |

**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 |
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| **LAND DEVELOPMENT** | | |
| Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design | 2 | Pisos de Coamo is one of the main projects of the Municipal Revitalization Plan, dated April 16th, 2023, for Coamo's Urban Center (https://cdn.recuperacion.pr.gov/w3cacheitdg/wp-content/uploads/2023/10/Coamo-Final-Plan-document-Signed.pdf). It specifically contributes to its repopulation and commercial/economic development strategies. The project provides 7 new moderate income housing units and a new commercial space on the first floor.<br>The project site is classified as an Intermediate-Density Commercial District (C-I) (see **Attachment 16**). The adjacent lots include residential condominiums, houses and small businesses such as a car repair shop, a funeral parlor, a bakery shop and a new School/Workshop for the Construction Arts. The proposed mixed-used facility is compatible with the C-I intermediate |

| | | |
|---|---|---|
| | | commercial zoning designation.<br><br>Pisos de Coamo will be a three-story new building that is contextual with the urban center in scale, use and architectural expression, as confirmed by the endorsement of the Program of Historic Patrimony Preservation of the Institute of Puertorrican Culture. The project is located within Coamo's Historic Zone, the heart of the Traditional Urban Center. It is within one block from the main recreational plaza, city hall and the cathedral, surrounded by restaurants, cafeterias, banks, clothing shops, beauty salons, medical offices, a cinema, and an ample variety of small retail businesses. Its façades, with balconies in the upper floors, are aligned with the urban fabric of the Historic Zone, its height is below the maximum permitted by the ICP and the fenestrations and solid walls follow the traditional rhythm of the historical structures of the urban center. |
| Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff | 2 | The proposed project is feasible from a geotechnical standpoint. According to the geotechnical investigation, the site can be safely developed, and the proposed building can be constructed in compliance with the conclusions and recommendations outlined in the report (**see Attachment 17**).<br><br>The site is a flat parcel within the urban center that has been modified due to past uses. There are no slopes that require controls or that may be subject to landslides.<br><br>The contractor will file a Consolidated Permit, which will include Erosion and Sedimentation Controls, as well as a disposal and recycling plan for construction waste management. Since the site will be paved, no erosion and sedimentation controls will be necessary after construction is completed.<br><br>Stormwater runoff will be discharged at multiple points along the existing curbs and gutters of the surrounding streets connected to the Municipal storm water system. |
| Hazards and Nuisances including Site Safety and Noise | 2 | Based on the findings in Contamination and Toxic Substances, the Pisos de Coamo project is surrounded by residential and commercial uses that do not involve the aboveground storage of explosive or flammable materials. The project does not include operations or facilities that handle hazardous, explosive, or flammable substances. Additionally, a regulatory review confirmed that no significant environmental hazards are present on-site or in the immediate vicinity. The site is not expected to be affected by natural or man-made hazards or nuisances.<br><br><u>Site Safety</u><br>The site is not located in an area of increased landslide risk, fire or |

| | | |
|---|---|---|
| | | flood-prone area. A 6 mill vapor barrier will be installed underneath the foundation to protect the structure from moisture damage.<br><u>Noise</u><br>Construction-related noise will be temporary and mitigated by compliance with the Regulations for Noise Pollution Control established by the Environmental Quality Board of Puerto Rico. The completed development is not expected to introduce new permanent noise sources that would interfere with surrounding residential and commercial uses. Similarly, the analysis per HUD's noise standards have concluded that community noise exposures are acceptable for the site. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|---|---|---|
| **SOCIOECONOMIC** | | |
| Employment and Income Patterns | 1 | The Pisos de Coamo project is in a predominantly low- to moderate-income area. The construction phase is expected to create ten jobs for low- to moderate-income individuals, while the completed project will generate two permanent jobs. This initiative will directly benefit the local low- to moderate-income population by providing employment opportunities and economic growth in the community. |
| Demographic Character Changes, Displacement | 2 | Since the site currently has no residential use, there will be no displacement of individuals expected for this project. The goal of the project is to create affordable housing and encourage small business activity. Since the housing is available to local low-to-moderate income residents, no changes in demographics are expected. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|---|---|---|
| **COMMUNITY FACILITIES AND SERVICES** | | |
| Educational and Cultural Facilities | 2 | Several educational facilities are nearby in Coamo Urban Center including Escuela Intermedia Benjamín Franklin (Middle), Escuela Superior Ramón José Dávila (High) and Escuela José M. Espada Zayas (Elementary). As the housing only includes 7 families, the capacity and access to these schools isn't expected to significantly increase. The San Blas de Illescas Church, Plaza Pública de Coamo, Teatro Hollywood and Museo Histórico de Coamo (Coamo |

| | | |
|---|---|---|
| | | Historical Museum) are all within walking distance of the proposed project. |
| Commercial Facilities | 1 | The Project will bring clients' traffic to the downtown area because of the new commercial space that it will provide and the new residents that the 7 new affordable housing units will house, thus benefiting the commercial facilities established in the vicinity. |
| Health Care and Social Services | 2 | The nearest hospital to the project site is the Hospital Menonita de Coamo, which is less than 1 mile. The area is also served by Departamento de la Familia – Coamo and the Coamo Municipal Social Services Office. The residents of the proposed project will have access to these facilities and no significant increase in use of these facilities is expected. |
| Solid Waste Disposal / Recycling | 2 | For the construction phase, the contractor will file a Consolidated Permit that will include Erosion and Sedimentation Controls as well as a disposal and recycling plan for construction waste management. The construction waste is expected to generate between 3 to 9 cubic yards during the period that the construction will last, which is expected to be 18 months. The contractor will manage all the construction waste.<br><br>During the operation, the facility is expected to generate some 4 to 5 cubic yards per week of domestic waste. This includes the waste from commercial properties proposed. The municipality has a well-established solid waste collection and disposal system, free of charge, that will manage the waste disposal needs of the property. A municipal recycling program is also in effect, and it is anticipated that the new residents and the new operator of the commercial space will participate. |
| Waste Water / Sanitary Sewers | 2 | During the construction process, the project will not be discharging any waste waters. The contractor will provide portable sanitary for use by the construction workers.<br><br>During the operation, the water discharges will be near to the total water consumption for the building, which has been estimated to be 3,320.5 gallons per day.<br><br>A recommendation by the Puerto Rico Aqueduct and Sewer Authority (PRASA) (issued in letter dated December 1, 2020, see **Attachment 18**) indicates that the proposed site may be connected to the existing wastewater collection line that is located underneath the adjacent street. The complete and updated endorsement from PRASA will be obtained prior to construction. |

| | | |
|---|---|---|
| Water Supply | 2 | During the construction process, the project will require around 350 gallons a day of water supply. This supply will be provided by the contractor via water truck for construction purposes and water containers for human consumption.<br><br>During the operation of the facility, it is estimated that some 400 gallons per day per apartment will be required for residential needs and the commercial space will require some 520 gallons per day. A cistern will be integrated in the design to serve as a reserve, per PRASA regulations. The cistern is designed to hold 1,660.25 gallons.<br><br>A recommendation by the Puerto Rico Aqueduct and Sewer Authority (PRASA) (issued in letter dated December 1, 2020, see **Attachment 18**) indicates that the proposed site may be connected to the existing water supply pipeline that is located underneath the street. The complete and updated endorsement from PRASA will be obtained prior to construction. |
| Public Safety - Police, Fire and Emergency Medical | 2 | The proposed project site is in the Coamo urban center where there is a police station, the fire department, pharmacies, and many medical offices. There is also a hospital only a few minutes' drive from the site. Therefore, the proposed facility will have easy access to amenities that enhance public safety, both public and private. Since the increase in population as a result of the proposed project is only around 35 residents, the proposed project is not anticipated projected to significantly increase the need for public safety services. |
| Parks, Open Space and Recreation | 2 | The only open space and recreational area nearby is the Luis Muñoz Rivera Plaza, Coamo's foundational public space. It houses the first Catholic Church of Coamo in its center. It was restored in 2004 and it is very well kept, full of trees and space for walking, a vibrant community space. It also has a children's playground. It is where many civic and cultural events take place during the year. It is located one block from the project, at the heart of the historic zone. It will not be affected by the project, but the project will benefit from being near to this open area. |
| Transportation and Accessibility | 2 | Being in the urban center will make the facility easily accessible. The Municipality of Coamo has a Collective Transportation System (STC, for its Spanish acronym) that is being expanded with FTA assistance. The Public transportation terminal is located within a few minutes of walking distance from the site, it provides low-fare transportation options in the Coamo area. The urban center itself is very walkable, and street parking is available. Since there are existing transportation options, the proposed project is not expected to strain existing transportation infrastructure or |

| | | |
|---|---|---|
| | | contribute to an increase in transportation needs. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation |
|---|---|---|
| **NATURAL FEATURES** | | |
| Unique Natural Features, Water Resources | 2 | There are no unique natural features, nor water resources within the project area or adjacent to it. The nearest water feature is the Coamo River, which is more than 800 ft away. As common practice, best management practices for erosion and sedimentation controls will be implemented to avoid impact to off-site water resources such as the Coamo River. |
| Vegetation, Wildlife | 2 | No vegetation or wildlife will be impacted by the project. The area is previously disturbed urban land that was paved for use as a parking lot. The proposed project will plant several Malagueta trees in the garden plaza on the Northeast side of the building. |
| Other Factors | 2 | No other factors were considered as part of this environmental assessment. |

**Additional Studies Performed:**

1) Report on Geotechnical Investigation- Pisos de Coamo (**see Attachment #17**)
2) Phase I Environmental Assessment (**see Attachment #6C**)

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

1. State Historic Preservation Agency - The Section 106 review for the Pisos de Coamo project was submitted to the Puerto Rico State Historic Preservation Office (SHPO)
2. U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office
3. Institute of Puertorrican Culture, Archaeology and Ethno history Program, which requested an Archaeology Study, Phase 1-A/1-B on January 13, 2020
4. Institute of Puertorrican Culture, Historic Built Patrimony Program
5. US Fish and Wildlife Service Wetlands, Coastal Barrier Resources Mapper and Information for Planning and Consultation (IPaC)
   https://fwsprimary.wim.usgs.gov/cbrs-mapper-v2/
   https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/
   https://ipac.ecosphere.fws.gov/
6. Seahorse Wastewater Services (Phase I ESA developer)
7. US Department of Agriculture, Natural Resources Conservation Service, Web Sol Service, Farmland classification, https://websoilsurvey.nrcs.usda.gov/app/
8. US Environmental Protection Agency.
   NEPA assist https://www.epa.gov/nepa/nepassist
   Nonattainment Areas for Criteria Pollutants (Green Book) https://www.epa.gov/green-book
   Sole Source Aquifer Mapper https://www.epa.gov/dwssa/map-sole-source-aquifer-locations
9. Puerto Rico Planning Board https://gis.jp.pr.gov/mipr/

10. HUD ASD Calculator https://www.hudexchange.info/programs/environmental-review/asd-calculator/
11. US Forest Service Wild & Scenic Rivers https://www.arcgis.com/home/webmap/viewer.html?panel=gallery&layers=a37eb56966cc4b11b69909e288414e53
12. US National Oceanic and Atmospheric Administration (NOAA) Coastal Zone Mapping https://koordinates.com/layer/20522-us-coastalzone-management-act-boundary/

**List of Permits Obtained:**
No permits have been obtained.

**Public Outreach** [24 CFR 50.23 & 58.43]**:**
The Environmental Review process will result in a combined public notice for the proposed project, *Finding of No Significant Impact and Notice of Intent to Request Release of Funds* (FONSI-NOI-RROF), that will be published in a newspaper. This notice be published in English and Spanish. Any substantive comments received will be addressed and incorporated into the final environmental review record (ERR).

**Cumulative Impact Analysis** [24 CFR 58.32]**:**
The proposed project is not expected to result in significant cumulative environmental impacts. The project is part of a plan to revitalize Coamo's Urban Center, aiming to reverse trends of abandonment, economic stagnation, and population decline. The project will create jobs and provide affordable housing for low-to-moderate individuals in the area.

Minor environmental impacts include temporary emissions during construction, potential for lead-based paint and asbestos removal and disposal, potential for archaeological findings and erosion and sedimentation concerns. While it's unlikely, there is the potential for a PR Boa to be found. These impacts will be mitigated with dust and emissions controls, LBP and ACM surveys and testing, archaeological monitoring and erosion and sedimentation controls. These potential impacts are not expected to be cumulative.

**Alternatives** [24 CFR 58.40(e); 40 CFR 1508.9]:
Alternatives to the proposed project include the selection of another site within the Coamo Traditional Urban Center and the selection of a site outside of the Traditional Urban Center. Both alternatives were rejected for the following reasons: The municipality acquired this site in 2019 because this site was an important element for the urban center revitalization, and it had become a vacant and dilapidated lot, with the potential of becoming a public hazard degrading the surrounding housing and commercial area. It is located only a block away from the main plaza, in two of the principal streets of the urban center.

Under the current Coamo's Urban Center Revitalization Plan and its strategies of re population and economic redevelopment, it was of utmost importance for the municipality to redevelop this strategic site that has such a privileged location, with affordable housing, due to the increased demand after Hurricanes Irma and María. Also with new commercial spaces, as they are needed to support economic redevelopment. The purpose was to impede further deterioration of the central area of the Traditional Urban Center and at the same time provide new affordable housing and new

commercial space to such a vital location. Its redevelopment will become a seed of the future that is the goal of the Coamo's Urban Center Revitalization Plan.

**No Action Alternative** [24 CFR 58.40(e)]:
If no action was taken the vacant and dilapidated site will become a public hazard and will degrade the surrounding area, which is a vital area for the livelihood of the urban center, being only a block away from the Main Plaza and surrounded by many structures of high historic value. The No-Action Alternative is not viable, since there is a growing demand for secure and accessible housing following the impacts of Hurricanes Irma and María on the municipality's housing stock. Additionally, the Municipality's revitalization initiative prioritizes economic revitalization, sustainable development, and the re-population of the urban center.

**Summary of Findings and Conclusions:**
The environmental assessment for the Pisos de Coamo project concludes that the proposed development will not result in significant adverse impacts on the human or natural environment. The project involves the construction of a three-story mixed-use building in Coamo's Historic Zone, aligns with the municipality's Urban Center Revitalization Plan and supports key goals such as affordable housing, economic development, and sustainable urban infill.

The project complies with all applicable federal and state environmental regulations, including those found in 24 CFR 58. No recognized environmental conditions (RECs) were identified, and the following mitigation measures will be implemented: Asbestos and lead-based paint assessments will be conducted prior to demolition, Archaeological monitoring will be implemented in the southeast quadrant of the site, impacts such as temporary dust, noise, and emissions will be mitigated through best management practices.

The project will create jobs, provide affordable housing, and stimulate local commerce without displacing existing residents. The site is well-served by existing utilities, amenities and public services, and the project will not overburden these systems. The project is expected to revitalize a deteriorated urban parcel while enhancing housing availability for low-to-moderate income residents. All minor adverse effects can be mitigated through engineering controls. Therefore, a Finding of No Significant Impact (FONSI) is appropriate.

**Mitigation Measures and Conditions [40 CFR 1505.2(c)]**
Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

| Law, Authority, or Factor | Mitigation Measure |
|---|---|
| Contamination and Toxic Substances | An asbestos and lead study will be conducted by the General Contractor before any demolition or ground-disturbing activities. If lead-based paint (LBP) or asbestos-containing materials (ACM) are present, certified abatement procedures will be implemented before construction. Any mitigation measures necessary will follow |

| | |
|---|---|
| | applicable environmental regulations. Surrounding areas will be protected by state regulations enforced by the Puerto Rico Environmental Quality Board (EQB) and local environmental regulations.<br><br>It was recommended by Env Professional that any asphalt sections affected by oil stains be removed along with the pavement and disposed of in authorized facilities for construction and demolition waste. If the presence of hydrocarbons in the subsoil is detected during excavation activities, an additional environmental assessment with appropriate sampling is recommended to confirm whether a plume was present or is localized. Thus, the removal of the stained surfaces will need to be monitored to address if additional sampling is needed. |
| Endangered Species Act (16 U.S.C. § 1531 et seq.) | If a Puerto Rican Boa is found at the site, the General Contractor will make sure that the construction will pause until it moves away or is safely relocated by DNER officials. |
| Historic Preservation (National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800) | Evidence of colonial construction materials exists within the Southeast quadrant. Archaeological monitoring in this quadrant will include 2-4 weeks of field monitoring, followed by 4 weeks of lab work and report preparation and 8-12 weeks of final report delivery and 30 days for SHPO review of Section 106 consultation package. The monitoring will be led by a SOI's qualified archaeologist. During the monitoring, the SOI's qualified archaeologist will identify and document any archaeological or cultural materials, recover and analyze unexpected findings to ensure compliance with 36 CFR Part 800, and provide the Responsible Entity (RE) with the recommendations for proper management of the findings. |
| Geotechnical | Debris to be removed and disposed of properly. Area to be rolled and filled using A-2 or better soil-aggregate. All recommendations outlined in the geotechnical report regarding site preparation, fill placement and foundation design to be followed consistent with best management practices (BMPs) for urban infill development. |
| Permits | A Consolidated Permit will need to be filed outlining erosion/sedimentation controls and construction waste disposal and recycling. |

**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: _____ Date: October 20, 2025

Name/Title/Organization: Mildred M Guzmán / Environmental Specialist / ICF

Certifying Officer Signature: _____ Date: October 20, 2025

Digitally signed by Santa D. Ramírez Lebrón
Date: 2025.10.20 16:05:16 -04'00'

Name/Title: Santa D. Ramírez Lebrón / Permits and Environmental Compliance Specialist

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

# List of Attachments

| | |
|---|---|
| 1 | Airport Hazards Map |
| 2 | Coastal Barrier Resources Map |
| 3 | Flood Insurance Rate Map |
| 4 | A. Nonattainment Areas Map<br>B. Nonattainment Data |
| 5 | Coastal Hazard Management Map |
| 6 | A. Contaminations & Toxic Sites Map and Table<br>B. ECHO Reports<br>C. Phase I Environmental Site Assessment<br>D. Radon Memorandum |
| 7 | A. USFWS No Effect Memorandum<br>B. Critical Habitat map |
| 8 | Aboveground Fuel Tank and Acceptable Separation Distance information |
| 9 | Farmland Protection Map and Report |
| 10 | Floodplain Management |
| 11 | Historic Preservation |
| 12 | Noise Analysis |
| 13 | Sole Source Aquifer Map |
| 14 | Wetlands Map |
| 15 | Wild & Scenic Rivers Map |
| 16 | Planning Board Land Use Map |
| 17 | Geotechnical Evaluation |
| 18 | PRASA Letter and other permits |

Attachment 1

Airport Hazards Map

# Airport Hazards Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR

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

Prepared by ICF

Attachment 2

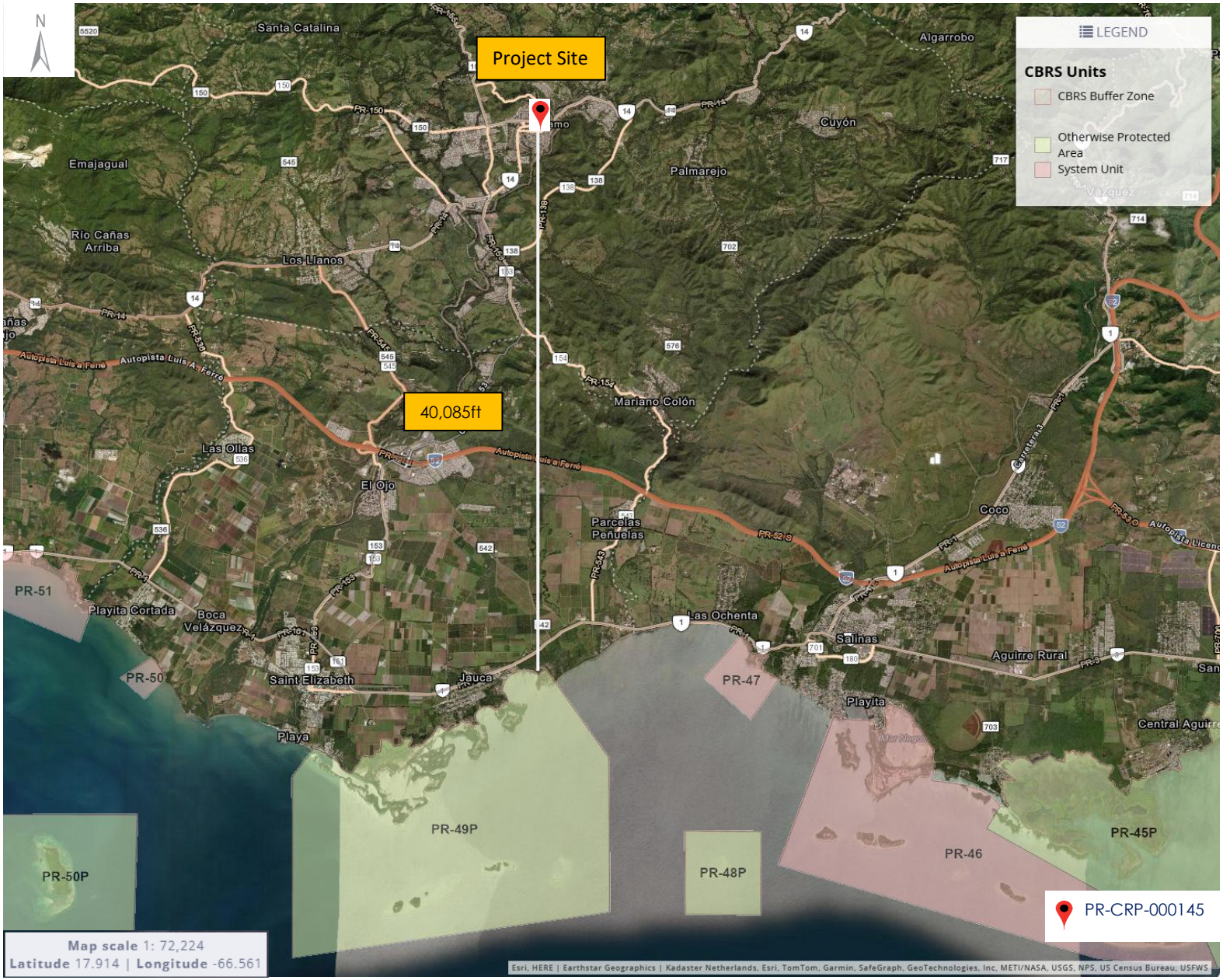
Coastal Barrier Resources Map

## Coastal Barrier Resources Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: U.S. Fish and Wildlife (USFWS) Coastal Barrier Resources System Mapper (Spatial Reference: WGS84) at URL https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/

Prepared by ICF

Attachment 3

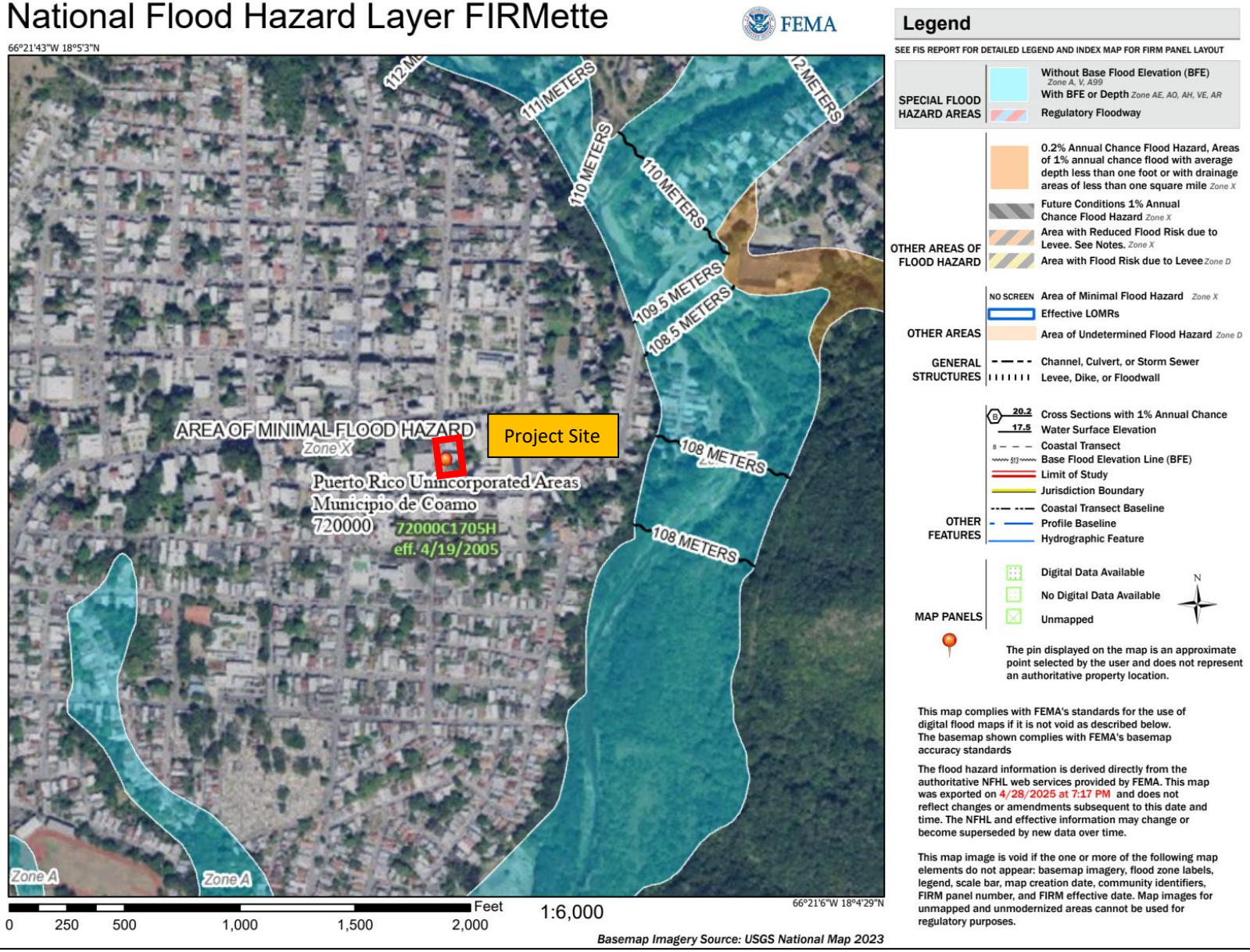
Flood Insurance Map

**Flood Insurance Map**

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: FEMA FIRMette (Spatial Reference: NAVD88), accessed at URL https://msc.fema.gov/portal/search

Prepared by ICF

Attachment 4A-B

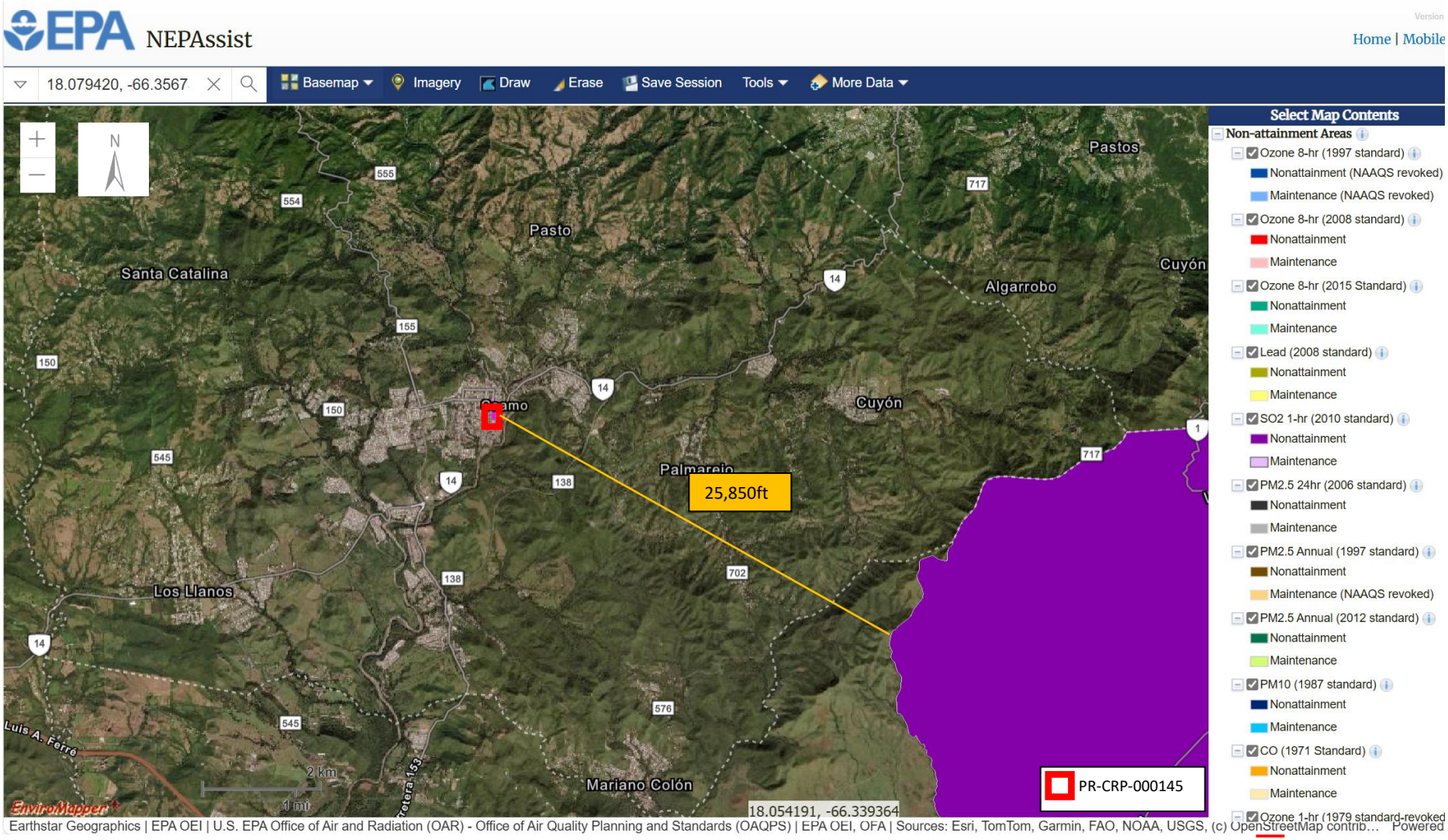
Clean Air Map and Data

## Nonattainment Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: U.S. Environmental Protection Agency (EPA) NEPAssist (Spatial Reference: GRS80) at URL https://nepassisttool.epa.gov/nepassist/nepamap.aspx

Prepared by ICF

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

Data is current as of March 31, 2025

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

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

Change the State:
PUERTO RICO GO

Important Notes

| County | NAAQS | Area Name | Nonattainment in Year | Redesignation to Maintenance | Classification | Whole or/ Part County | Population (2010) | State/ County FIPS Codes |
|---|---|---|---|---|---|---|---|---|
| **PUERTO RICO** | | | | | | | | |
| Arecibo Municipio | Lead (2008) | Arecibo, PR | 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 | / / | | Part | 32,185 | 72/013 |
| Bayamon Municipio | Sulfur Dioxide (2010) | San Juan, PR | 18 19 20 21 22 23 24 25 | / / | | Part | 22,921 | 72/021 |
| Catano Municipio | Sulfur Dioxide (2010) | San Juan, PR | 18 19 20 21 22 23 24 25 | / / | | Whole | 28,140 | 72/033 |
| Guaynabo Municipio | PM-10 (1987) | Mun. of Guaynabo, PR | 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 | 02/11/2010 | Moderate | Part | 90,470 | 72/061 |
| Guaynabo Municipio | Sulfur Dioxide (2010) | San Juan, PR | 18 19 20 21 22 23 24 25 | / / | | Part | 23,802 | 72/061 |
| Salinas Municipio | Sulfur Dioxide (2010) | Guayama-Salinas, PR | 18 19 20 21 22 23 24 25 | / / | | Part | 23,401 | 72/123 |
| San Juan Municipio | Sulfur Dioxide (2010) | San Juan, PR | 18 19 20 21 22 23 24 25 | / / | | Part | 147,963 | 72/127 |
| Toa Baja Municipio | Sulfur Dioxide (2010) | San Juan, PR | 18 19 20 21 22 23 24 25 | / / | | Part | 52,441 | 72/137 |

Attachment 5

Coastal Zone Management Map

# Coastal Zone Boundary Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR

Source: US National Oceanic and Atmospheric Administration (NOAA), US Coastal Zone Management Act boundary (Spatial Reference: WGS84) at URL https://koordinates.com/layer/20522-us-coastal-zone-management-act-boundary/

Prepared by ICF

# Attachment 6A-D

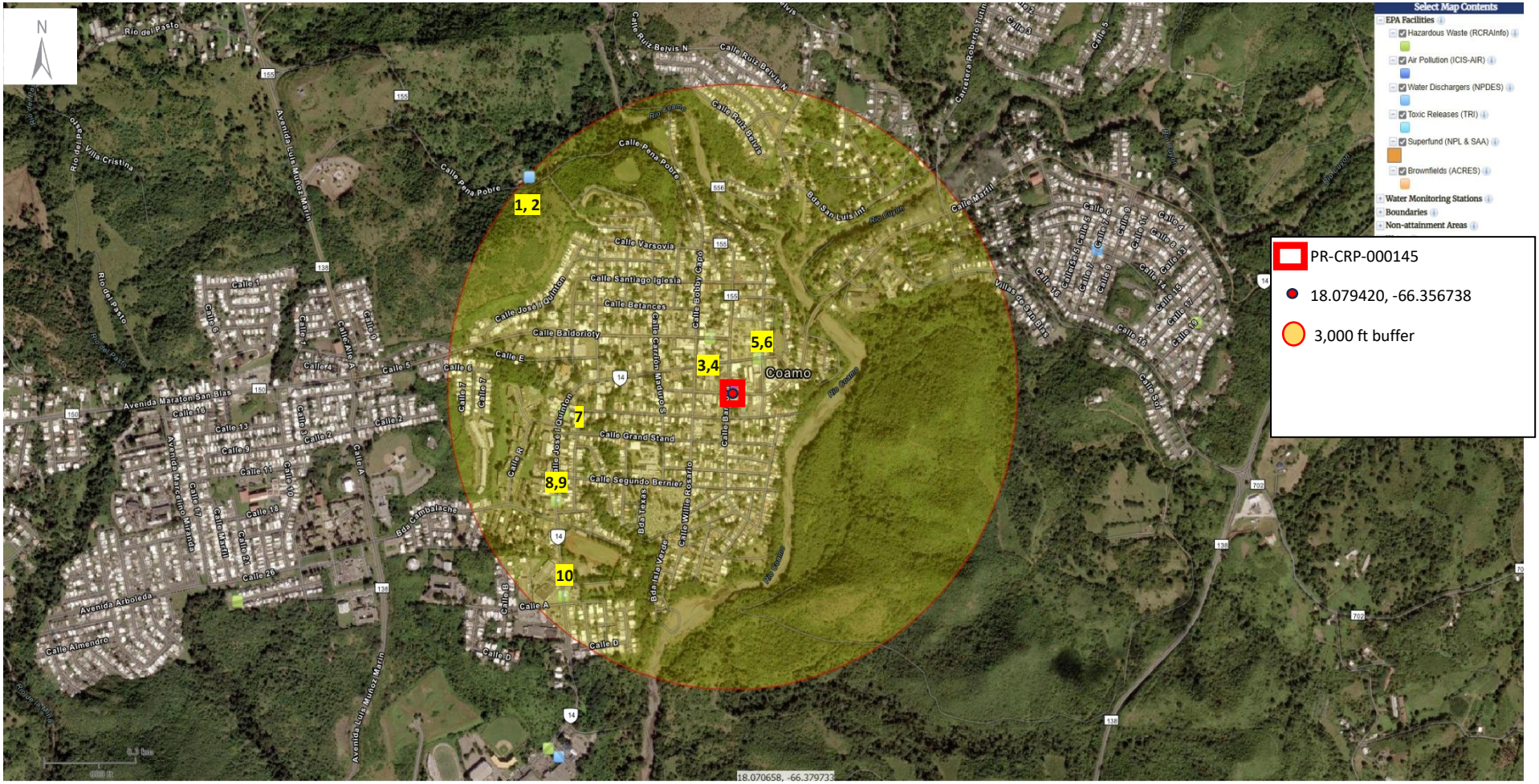
# Contamination & Toxic Substances

## Contamination and Toxic Substances Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: EPA NEPAssist (Spatial Reference: GRS80), accessed at URL https://nepassisttool.epa.gov/nepassist/nepamap.aspx

Prepared by ICF

# Contamination and Toxic Substances Table

PR-CRP-000145

| *ID* | EPA Facility | Distance from Project Site | Direction from Project Site | Description | Compliance Status |
|---|---|---|---|---|---|
| *1* | Hazardous Waste (RCRAInfo) | 3,105 ft | NW | Prasa Coamo Urano | No Violation Identified |
| *2* | Water Discharger (NPDES) | 3,105 ft | NW | Prasa Coamo Urano | No Violation Identified |
| *3* | Hazardous Waste (RCRAInfo) | 555 ft | NW | Municipio De Coamo Escuela De Bellas Artes | No Violation Identified |
| *4* | Hazardous Waste (RCRAInfo) | 555 ft | NW | Municipio De Coamo Teatro Hollywood | No Violation Identified |
| *5* | Hazardous Waste (RCRAInfo) | 405 ft | NE | Francisco Sanchez Ss | No Violation Identified |
| *6* | Hazardous Waste (RCRAInfo) | 405 ft | NE | New York Dry Cleaner | No Violation Identified |
| *7* | Hazardous Waste (RCRAInfo) | 1,880 ft | W | Total Petroleum Puerto Rico Corp - Service Station 215642 | No Violation Identified |
| *8* | Hazardous Waste (RCRAInfo) | 2,285 ft | SW | Paint Pro | No Violation Identified |
| *9* | Water Discharger (NPDES) | 2,285 ft | SW | Paint Pro Inc | No Violation Identified |
| *10* | Water Discharger (NPDES) | 2,875 ft | SW | Shell Co Pr Ss 3646 Coop La Candelaria PR-14 KM 32.5 | No Violation Identified |

# Detailed Facility Report

Facility Summary

**PRASA COAMO URANO**

**PR-155 HM 1, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110009700314

**EPA Region:** 02

**Latitude:** 18.085149

**Longitude:** -66.362896

**Locational Data Source:** FRS

**Industries:** --

**Indian Country:** N

## Enforcement and Compliance Summary

| Statute | CWA |
|---|---|
| Compliance Monitoring Activities (5 years) | -- |
| Date of Last Compliance Monitoring Activity | 10/10/2019 |
| 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) | 1 |
| Penalties from Formal Enforcement Actions (5 years) | $0 |
| EPA Cases (5 years) | -- |
| Penalties from EPA Cases (5 years) | -- |

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

## Regulatory Information

**Clean Air Act (CAA):** No Information

**Clean Water Act (CWA):** Non-Major, Permit Effective (PR0022764)

**Resource Conservation and Recovery Act (RCRA):** Inactive Other, (PRD980534614)

**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 | | 110009700314 | | | | | N | 18.085149 | -66.362896 |
| ICIS | | 44484 | | | | | N | 18.086628 | -66.361281 |
| ICIS | | 32235 | | | | | N | 18.086628 | -66.361281 |
| ICIS-NPDES | CWA | PR0022764 | Non-Major: NPDES Individual Permit | Effective | | 05/31/2029 | N | 18.088611 | -66.361667 |
| RCRAInfo | RCRA | PRD980534614 | Other | Inactive ( ) | | | N | | |

## Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110009700314 | PRASA COAMO URANO | PR-155 HM 1, COAMO, PR 00769 | Coamo Municipio |

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| ICIS | | 44484 | PRASA COAMO FILTER PLANT | CARR 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |
| ICIS | | 32235 | PRASA COAMO URANO | CARRETERA 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |
| ICIS-NPDES | CWA | PR0022764 | PRASA COAMO WTP | ROAD 155 HM 1, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRD980534614 | PRASA COAMO FILTER PLANT | CARR 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |

## Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|
| ICIS-NPDES | PR0022764 | 4941 | Water Supply |

## Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|

No data records returned

## Facility Industrial Effluent Guidelines

| Identifier | Effluent Guideline (40 CFR Part) | Effluent Guideline Description |
|---|---|---|
| PR0022764 | 000 | No Applicable Effluent Guidelines |

## Facility Tribe Information

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

No data records returned

Enforcement and Compliance

## Compliance Monitoring History

Last 5 Years

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

No data records returned

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

## Compliance Summary Data

| Statute | Source ID | Current SNC (Significant Noncompliance)/HPV (High Priority Violation) | Current As Of | Qtrs with NC (Noncompliance) (of 12) | Data Last Refreshed |
|---|---|---|---|---|---|
| CWA | PR0022764 | No | 12/31/2024 | 0 | 03/21/2025 |
| RCRA | PRD980534614 | No | 03/22/2025 | 0 | 03/21/2025 |

## Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12 | QTR 13+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA (Source ID: PR0022764) | | | | | 01/01-03/31/22 | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/21/25 |
| | Facility-Level Status | | | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | Undetermined |
| | Quarterly Noncompliance Report History | | | | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | |
| | Pollutant | Disch Point | Mon Loc | Freq | | | | | | | | | | | | | |

| Statute | Program/Pollutant/Violation Type | | | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12 | QTR 13+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA | Chlorine, total residual <effluent-charts#pr0022764/50060> [redacted] <https://epa.gov/effluent-charts#pr0022764/50060> | 001 - A | Effluent Gross | NMth | | | | | | | | | | | 718% | | |
| CWA | Phosphorus, total [as P] <effluent-charts#pr0022764/00665> [redacted] <https://epa.gov/effluent-charts#pr0022764/00665> | 001 - A | Effluent Gross | NMth | | | 13% | | 41% | | | | | | | 6% | |
| CWA | Temperature, water deg. centigrade <effluent-charts#pr0022764/00010> [redacted] <https://epa.gov/effluent-charts#pr0022764/00010> | 001 - A | Effluent Gross | NMth | | | | | | | | | | 3% | 1% | | |
| CWA | Turbidity <effluent-charts#pr0022764/00070> [redacted] <https://epa.gov/effluent-charts#pr0022764/00070> | 001 - Q | Effluent Gross | NMth | | | | | LIMIT VIOLATION | | | | LIMIT VIOLATION | | | | |

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRD980534614) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

## Formal Enforcement Actions

Last 5 Years

| Statute | System | Law/ Section | Source ID | Type of Action | Case No. | Lead Agency | Case Name | Issued/ Filed Date | Settlements/ Actions | Settlement/ Action Date | Federal Penalty Assessed | State/ Local Penalty Assessed | Penalty Amount Collected | SEP Value | Comp Action Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA | ICIS-NPDES | 301 | NPDES/PR0022764 | Judicial | 02-2011-0007 | EPA | PRASA - Puerto Nuevo Regional WWTP et al. | 09/15/2015 | 2 | 05/23/2016 | $0 | -- | -- | -- | $700,000,000 |
| | | | | | | | | | | 03/22/2024 | $0 | -- | -- | -- | $530,000,000 |

Environmental Conditions

## Watersheds

| 12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database)) | WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database)) | State Water Body Name (ICIS (Integrated Compliance Information System)) | Beach Closures Within Last Year | Beach Closures Within Last Two Years | Pollutants Potentially Related to Impairment | Watershed with ESA (Endangered Species Act)-listed Aquatic Species? |
|---|---|---|---|---|---|---|
| 210100040403 | Rio Coamo at Lago Coamo Dam | COAMO RIVER | No | No | Copper, total (as Cu) \| Phosphorus, total (as P) \| Temperature, water deg. centigrade \| pH | Yes |

## Assessed Waters From Latest State Submission (ATTAINS)

| State | Report Cycle | Assessment Unit ID | Assessment Unit Name | Water Condition | Cause Groups Impaired | Drinking Water Use | Ecological Use | Fish Consumption Use | Recreation Use | Other Use |
|---|---|---|---|---|---|---|---|---|---|---|
| PR | 2022 | PRSR57A2 | RIO COAMO | Impaired - 303(d) Listed - With Restoration Plan | METALS (OTHER THAN MERCURY) \| NUTRIENTS \| PATHOGENS \| PH/ACIDITY/CAUSTIC CONDITIONS \| TEMPERATURE \| TOXIC INORGANICS | Not Supporting | Not Supporting | -- | Not Supporting | -- |

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

## CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

| NPDES ID | Description | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|
| PR0022764 | DMR Pollutant Loadings (lb/year) | 108 | 58.99 | 140 | 104 | 86.40 |
| PR0022764 | DMR Pollutant Loadings - Load Over Limit (lb/year) | 0 | 0 | 65.34 | 3.45 | 13.19 |
| PR0022764 | DMR Conventional Loadings (lb/year) | -- | -- | -- | -- | -- |

| NPDES ID | Description | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|
| PR0022764 | DMR Conventional Loadings - Load Over Limit (lb/year) | -- | -- | -- | 0 | -- |
| PR0022764 | DMR Toxic-Weighted Loadings (lb-eq/year) | 10.43 | 4.41 | 2.24 | 1.79 | 2.24 |
| PR0022764 | DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year) | 0 | 0 | 0 | 0 | 0 |

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 6,844 |
| Population Density | 2,193/sq.mi. |
| Housing Units in Area | 3,723 |
| Percent People of Color | 100% |
| Households in Area | 2,981 |
| Households on Public Assistance | 163 |
| Persons With Low Income | 5,744 |
| Percent With Low Income | 84% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.085149 |
| Center Longitude | -66.362896 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,603 (53.74%) |
| $15,000 - $25,000 | 512 (17.16%) |
| $25,000 - $50,000 | 532 (17.83%) |
| $50,000 - $75,000 | 213 (7.14%) |
| Greater than $75,000 | 123 (4.12%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 350 (5%) |
| Minors 17 years and younger | 1,121 (16%) |
| Adults 18 years and older | 5,723 (84%) |
| Seniors 65 years and older | 1,548 (23%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,385 (35%) |
| African-American | 852 (12%) |
| Hispanic-Origin | 6,800 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 0 (0%) |
| Other/Multiracial | 342 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 742 (14.15%) |
| 9th through 12th Grade | 404 (7.71%) |
| High School Diploma | 2,288 (43.65%) |
| Some College/2-year | 394 (7.52%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,048 (19.99%) |

# Detailed Facility Report

Facility Summary

**PRASA COAMO URANO**

**PR-155 HM 1, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110009700314

**EPA Region:** 02

**Latitude:** 18.085149

**Longitude:** -66.362896

**Locational Data Source:** FRS

**Industries:** --

**Indian Country:** N

## Enforcement and Compliance Summary

| Statute | CWA |
|---|---|
| Compliance Monitoring Activities (5 years) | -- |
| Date of Last Compliance Monitoring Activity | 10/10/2019 |
| 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) | 1 |
| Penalties from Formal Enforcement Actions (5 years) | $0 |
| EPA Cases (5 years) | -- |
| Penalties from EPA Cases (5 years) | -- |

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

## Regulatory Information

**Clean Air Act (CAA):** No Information

**Clean Water Act (CWA):** Non-Major, Permit Effective (PR0022764)

**Resource Conservation and Recovery Act (RCRA):** Inactive Other, (PRD980534614)

**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 | | 110009700314 | | | | | N | 18.085149 | -66.362896 |
| ICIS | | 44484 | | | | | N | 18.086628 | -66.361281 |
| ICIS | | 32235 | | | | | N | 18.086628 | -66.361281 |
| ICIS-NPDES | CWA | PR0022764 | Non-Major: NPDES Individual Permit | Effective | | 05/31/2029 | N | 18.088611 | -66.361667 |
| RCRAInfo | RCRA | PRD980534614 | Other | Inactive ( ) | | | N | | |

## Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110009700314 | PRASA COAMO URANO | PR-155 HM 1, COAMO, PR 00769 | Coamo Municipio |

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| ICIS | | 44484 | PRASA COAMO FILTER PLANT | CARR 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |
| ICIS | | 32235 | PRASA COAMO URANO | CARRETERA 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |
| ICIS-NPDES | CWA | PR0022764 | PRASA COAMO WTP | ROAD 155 HM 1, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRD980534614 | PRASA COAMO FILTER PLANT | CARR 155 KM 1.1, COAMO, PR 00769 | Coamo Municipio |

## Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|
| ICIS-NPDES | PR0022764 | 4941 | Water Supply |

## Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|

No data records returned

## Facility Industrial Effluent Guidelines

| Identifier | Effluent Guideline (40 CFR Part) | Effluent Guideline Description |
|---|---|---|
| PR0022764 | 000 | No Applicable Effluent Guidelines |

## Facility Tribe Information

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

No data records returned

Enforcement and Compliance

## Compliance Monitoring History

Last 5 Years

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

No data records returned

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

## Compliance Summary Data

| Statute | Source ID | Current SNC (Significant Noncompliance)/HPV (High Priority Violation) | Current As Of | Qtrs with NC (Noncompliance) (of 12) | Data Last Refreshed |
|---|---|---|---|---|---|
| CWA | PR0022764 | No | 12/31/2024 | 0 | 03/21/2025 |
| RCRA | PRD980534614 | No | 03/22/2025 | 0 | 03/21/2025 |

## Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12 | QTR 13+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA (Source ID: PR0022764) | | | | | 01/01-03/31/22 | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/21/25 |
| | Facility-Level Status | | | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | Undetermined |
| | Quarterly Noncompliance Report History | | | | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | Resolved - Pending | |
| | Pollutant | Disch Point | Mon Loc | Freq | | | | | | | | | | | | | |

| Statute | Program/Pollutant/Violation Type | | | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12 | QTR 13+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA | Chlorine, total residual <effluent-charts#pr0022764/50060> [redacted] <https://epa.gov/effluent-charts#pr0022764/50060> | 001 - A | Effluent Gross | NMth | | | | | | | | | | | 718% | | |
| CWA | Phosphorus, total [as P] <effluent-charts#pr0022764/00665> [redacted] <https://epa.gov/effluent-charts#pr0022764/00665> | 001 - A | Effluent Gross | NMth | | | 13% | | 41% | | | | | | | 6% | |
| CWA | Temperature, water deg. centigrade <effluent-charts#pr0022764/00010> [redacted] <https://epa.gov/effluent-charts#pr0022764/00010> | 001 - A | Effluent Gross | NMth | | | | | | | | | | 3% | 1% | | |
| CWA | Turbidity <effluent-charts#pr0022764/00070> [redacted] <https://epa.gov/effluent-charts#pr0022764/00070> | 001 - Q | Effluent Gross | NMth | | | | | LIMIT VIOLATION | | | | LIMIT VIOLATION | | | | |

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRD980534614) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

## Formal Enforcement Actions

Last 5 Years

| Statute | System | Law/ Section | Source ID | Type of Action | Case No. | Lead Agency | Case Name | Issued/ Filed Date | Settlements/ Actions | Settlement/ Action Date | Federal Penalty Assessed | State/ Local Penalty Assessed | Penalty Amount Collected | SEP Value | Comp Action Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CWA | ICIS-NPDES | 301 | NPDES/PR0022764 | Judicial | 02-2011-0007 | EPA | PRASA - Puerto Nuevo Regional WWTP et al. | 09/15/2015 | 2 | 05/23/2016 | $0 | -- | -- | -- | $700,000,000 |
| | | | | | | | | | | 03/22/2024 | $0 | -- | -- | -- | $530,000,000 |

Environmental Conditions

## Watersheds

| 12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database)) | WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database)) | State Water Body Name (ICIS (Integrated Compliance Information System)) | Beach Closures Within Last Year | Beach Closures Within Last Two Years | Pollutants Potentially Related to Impairment | Watershed with ESA (Endangered Species Act)-listed Aquatic Species? |
|---|---|---|---|---|---|---|
| 210100040403 | Rio Coamo at Lago Coamo Dam | COAMO RIVER | No | No | Copper, total (as Cu) \| Phosphorus, total (as P) \| Temperature, water deg. centigrade \| pH | Yes |

## Assessed Waters From Latest State Submission (ATTAINS)

| State | Report Cycle | Assessment Unit ID | Assessment Unit Name | Water Condition | Cause Groups Impaired | Drinking Water Use | Ecological Use | Fish Consumption Use | Recreation Use | Other Use |
|---|---|---|---|---|---|---|---|---|---|---|
| PR | 2022 | PRSR57A2 | RIO COAMO | Impaired - 303(d) Listed - With Restoration Plan | METALS (OTHER THAN MERCURY) \| NUTRIENTS \| PATHOGENS \| PH/ACIDITY/CAUSTIC CONDITIONS \| TEMPERATURE \| TOXIC INORGANICS | Not Supporting | Not Supporting | -- | Not Supporting | -- |

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

## CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

| NPDES ID | Description | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|
| PR0022764 | DMR Pollutant Loadings (lb/year) | 108 | 58.99 | 140 | 104 | 86.40 |
| PR0022764 | DMR Pollutant Loadings - Load Over Limit (lb/year) | 0 | 0 | 65.34 | 3.45 | 13.19 |
| PR0022764 | DMR Conventional Loadings (lb/year) | -- | -- | -- | -- | -- |

| NPDES ID | Description | 2019 | 2020 | 2021 | 2022 | 2023 |
|---|---|---|---|---|---|---|
| PR0022764 | DMR Conventional Loadings - Load Over Limit (lb/year) | -- | -- | -- | 0 | -- |
| PR0022764 | DMR Toxic-Weighted Loadings (lb-eq/year) | 10.43 | 4.41 | 2.24 | 1.79 | 2.24 |
| PR0022764 | DMR Toxic-Weighted Loadings - Load Over Limit (lb-eq/year) | 0 | 0 | 0 | 0 | 0 |

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 6,844 |
| Population Density | 2,193/sq.mi. |
| Housing Units in Area | 3,723 |
| Percent People of Color | 100% |
| Households in Area | 2,981 |
| Households on Public Assistance | 163 |
| Persons With Low Income | 5,744 |
| Percent With Low Income | 84% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.085149 |
| Center Longitude | -66.362896 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,603 (53.74%) |
| $15,000 - $25,000 | 512 (17.16%) |
| $25,000 - $50,000 | 532 (17.83%) |
| $50,000 - $75,000 | 213 (7.14%) |
| Greater than $75,000 | 123 (4.12%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 350 (5%) |
| Minors 17 years and younger | 1,121 (16%) |
| Adults 18 years and older | 5,723 (84%) |
| Seniors 65 years and older | 1,548 (23%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,385 (35%) |
| African-American | 852 (12%) |
| Hispanic-Origin | 6,800 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 0 (0%) |
| Other/Multiracial | 342 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 742 (14.15%) |
| 9th through 12th Grade | 404 (7.71%) |
| High School Diploma | 2,288 (43.65%) |
| Some College/2-year | 394 (7.52%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,048 (19.99%) |

# Detailed Facility Report

Facility Summary

**MUNICIPIO DE COAMO TEATRO HOLLYWOOD**

**6 BALDORIOTY ST, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110044306453

**EPA Region:** 02

**Latitude:** 18.08076

**Longitude:** -66.35742

**Locational Data Source:** FRS

**Industries:** Executive, Legislative, and Other General Government Support

**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, (PRR000023556)

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

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

# Other Regulatory Reports

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

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

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

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

Facility/System Characteristics

# Facility/System Characteristics

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FRS | | 110044306453 | | | | | N | 18.08076 | -66.35742 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRR000023556 | Other | Inactive ( ) | | | N | | |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110044306453 | MUNICIPIO DE COAMO TEATRO HOLLYWOOD | 6 BALDORIOTY ST, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000023556 | MUNICIPIO DE COAMO TEATRO HOLLYWOOD | 6 BALDORIOTY ST, COAMO, PR 00769 | Coamo Municipio |

# Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|

No data records returned

# Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|
| RCRAInfo | PRR000023556 | 92111 | Executive Offices |

# 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 | PRR000023556 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000023556) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 8,010 |
| Population Density | 2,566/sq.mi. |
| Housing Units in Area | 4,255 |
| Percent People of Color | 100% |
| Households in Area | 3,441 |
| Households on Public Assistance | 199 |
| Persons With Low Income | 6,649 |
| Percent With Low Income | 83% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.08076 |
| Center Longitude | -66.35742 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,766 (51.37%) |
| $15,000 - $25,000 | 590 (17.16%) |
| $25,000 - $50,000 | 661 (19.23%) |
| $50,000 - $75,000 | 256 (7.45%) |
| Greater than $75,000 | 165 (4.8%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 407 (5%) |
| Minors 17 years and younger | 1,271 (16%) |
| Adults 18 years and older | 6,738 (84%) |
| Seniors 65 years and older | 1,989 (25%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,832 (35%) |
| African-American | 985 (12%) |
| Hispanic-Origin | 7,966 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 439 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 943 (15.2%) |
| 9th through 12th Grade | 496 (7.99%) |
| High School Diploma | 2,658 (42.84%) |
| Some College/2-year | 503 (8.11%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,145 (18.46%) |

# Detailed Facility Report

Facility Summary

**NEW YORK DRY CLEANER**

**19 JOSE I QUINTO, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110014362144

**EPA Region:** 02

**Latitude:** 18.080212

**Longitude:** -66.355968

**Locational Data Source:** FRS

**Industries:** --

**Indian Country:** N

# Enforcement and Compliance Summary

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

# Regulatory Information

**Clean Air Act (CAA):** No Information

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

**Resource Conservation and Recovery Act (RCRA):** Inactive Other, (PRN008009706)

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

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

# Other Regulatory Reports

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

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

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

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

Facility/System Characteristics

# Facility/System Characteristics

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FRS | | 110014362144 | | | | | N | 18.080212 | -66.355968 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRN008009706 | Other | Inactive ( ) | | | N | | |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110014362144 | NEW YORK DRY CLEANER | 19 JOSE I QUINTO, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRN008009706 | NEW YORK DRY CLEANER | 19 JOSE I QUINTO, COAMO, PR 00769 | Coamo 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

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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 | PRN008009706 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRN008009706) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,987 |
| Population Density | 2,559/sq.mi. |
| Housing Units in Area | 4,251 |
| Percent People of Color | 100% |
| Households in Area | 3,438 |
| Households on Public Assistance | 203 |
| Persons With Low Income | 6,646 |
| Percent With Low Income | 83% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.080212 |
| Center Longitude | -66.355968 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,767 (51.37%) |
| $15,000 - $25,000 | 592 (17.21%) |
| $25,000 - $50,000 | 661 (19.22%) |
| $50,000 - $75,000 | 252 (7.33%) |
| Greater than $75,000 | 168 (4.88%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 410 (5%) |
| Minors 17 years and younger | 1,267 (16%) |
| Adults 18 years and older | 6,721 (84%) |
| Seniors 65 years and older | 2,019 (25%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,820 (35%) |
| African-American | 989 (12%) |
| Hispanic-Origin | 7,942 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 442 (6%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 968 (15.6%) |
| 9th through 12th Grade | 503 (8.11%) |
| High School Diploma | 2,649 (42.7%) |
| Some College/2-year | 504 (8.12%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,123 (18.1%) |

# Detailed Facility Report

Facility Summary

**FRANCISCO SANCHEZ SS**

**JOSE I QUINTON 135, COAMO, PR 00640**

**FRS (Facility Registry Service) ID:** 110006434055

**EPA Region:** 02

**Latitude:** 18.080163

**Longitude:** -66.35527

**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, (PRR000010587)

**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 | | 110006434055 | | | | | N | 18.080163 | -66.35527 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRR000010587 | Other | Inactive ( ) | | | N | 18.080163 | -66.35527 |

## Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110006434055 | FRANCISCO SANCHEZ SS | JOSE I QUINTON 135, COAMO, PR 00640 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000010587 | FRANCISCO SANCHEZ SS | JOSE I QUINTON 135, COAMO, PR 00640 | Coamo 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

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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 | PRR000010587 | No | 03/22/2025 | 0 | 03/21/2025 |

## Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000010587) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,900 |
| Population Density | 2,531/sq.mi. |
| Housing Units in Area | 4,215 |
| Percent People of Color | 100% |
| Households in Area | 3,404 |
| Households on Public Assistance | 203 |
| Persons With Low Income | 6,584 |
| Percent With Low Income | 83% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.080163 |
| Center Longitude | -66.35527 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,753 (51.54%) |
| $15,000 - $25,000 | 584 (17.17%) |
| $25,000 - $50,000 | 652 (19.17%) |
| $50,000 - $75,000 | 246 (7.23%) |
| Greater than $75,000 | 166 (4.88%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 407 (5%) |
| Minors 17 years and younger | 1,253 (16%) |
| Adults 18 years and older | 6,645 (84%) |
| Seniors 65 years and older | 2,010 (25%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,784 (35%) |
| African-American | 981 (12%) |
| Hispanic-Origin | 7,856 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 439 (6%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 968 (15.76%) |
| 9th through 12th Grade | 501 (8.16%) |
| High School Diploma | 2,620 (42.66%) |
| Some College/2-year | 498 (8.11%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,103 (17.96%) |

# Detailed Facility Report

Facility Summary

**MUNICIPIO DE COAMO ESCUELA DE BELLAS ARTES**

**73 JOSE I QUINTON ST, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110044306444

**EPA Region:** 02

**Latitude:** 18.07959

**Longitude:** -66.36083

**Locational Data Source:** FRS

**Industries:** Executive, Legislative, and Other General Government Support

**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, (PRR000023549)

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

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

# Other Regulatory Reports

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

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

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

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

Facility/System Characteristics

# Facility/System Characteristics

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FRS | | 110044306444 | | | | | N | 18.07959 | -66.36083 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRR000023549 | Other | Inactive ( ) | | | N | | |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110044306444 | MUNICIPIO DE COAMO ESCUELA DE BELLAS ARTES | 73 JOSE I QUINTON ST, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000023549 | MUNICIPIO DE COAMO ESCUELA DE BELLAS ARTES | 73 JOSE I QUINTON ST, COAMO, PR 00769 | Coamo Municipio |

# Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|

No data records returned

# Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|
| RCRAInfo | PRR000023549 | 92111 | Executive Offices |

# 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 | PRR000023549 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000023549) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,740 |
| Population Density | 2,480/sq.mi. |
| Housing Units in Area | 4,091 |
| Percent People of Color | 100% |
| Households in Area | 3,295 |
| Households on Public Assistance | 172 |
| Persons With Low Income | 6,391 |
| Percent With Low Income | 83% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.07959 |
| Center Longitude | -66.36083 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,715 (52.11%) |
| $15,000 - $25,000 | 571 (17.35%) |
| $25,000 - $50,000 | 614 (18.66%) |
| $50,000 - $75,000 | 250 (7.6%) |
| Greater than $75,000 | 141 (4.28%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 385 (5%) |
| Minors 17 years and younger | 1,255 (16%) |
| Adults 18 years and older | 6,487 (84%) |
| Seniors 65 years and older | 1,696 (22%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,741 (35%) |
| African-American | 944 (12%) |
| Hispanic-Origin | 7,696 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 390 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 805 (13.64%) |
| 9th through 12th Grade | 428 (7.25%) |
| High School Diploma | 2,564 (43.45%) |
| Some College/2-year | 468 (7.93%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,204 (20.4%) |

# Detailed Facility Report

Facility Summary

**TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642**

**95 CALLE JOSE QUINTON, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110042424132

**EPA Region:** 02

**Latitude:** 18.07873

**Longitude:** -66.36186

**Locational Data Source:** FRS

**Industries:** Gasoline Stations

**Indian Country:** N

# Enforcement and Compliance Summary

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

# Regulatory Information

**Clean Air Act (CAA):** No Information

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

**Resource Conservation and Recovery Act (RCRA):** Active SQG, (PRR000023317)

**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 | | 110042424132 | | | | | N | 18.07873 | -66.36186 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRR000023317 | SQG | Active (H ) | | | N | 18.078209 | -66.362006 |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110042424132 | TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642 | 95 CALLE JOSE QUINTON, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000023317 | TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642 | 95 CALLE JOSE QUINTON, COAMO, PR 00769 | Coamo Municipio |

# Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|

No data records returned

# Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|
| RCRAInfo | PRR000023317 | 44711 | Gasoline Stations with Convenience Stores |
| RCRAInfo | PRR000023317 | 44719 | Other Gasoline Stations |

# Facility Tribe Information

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

No data records returned

Enforcement and Compliance

# Compliance Monitoring History

Last 5 Years

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

No data records returned

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

# Compliance Summary Data

| Statute | Source ID | Current SNC (Significant Noncompliance)/HPV (High Priority Violation) | Current As Of | Qtrs with NC (Noncompliance) (of 12) | Data Last Refreshed |
|---|---|---|---|---|---|
| RCRA | PRR000023317 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000023317) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,771 |
| Population Density | 2,490/sq.mi. |
| Housing Units in Area | 4,086 |
| Percent People of Color | 100% |
| Households in Area | 3,290 |
| Households on Public Assistance | 167 |
| Persons With Low Income | 6,397 |
| Percent With Low Income | 82% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.07873 |
| Center Longitude | -66.36186 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,708 (51.93%) |
| $15,000 - $25,000 | 576 (17.51%) |
| $25,000 - $50,000 | 612 (18.61%) |
| $50,000 - $75,000 | 254 (7.72%) |
| Greater than $75,000 | 139 (4.23%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 381 (5%) |
| Minors 17 years and younger | 1,264 (16%) |
| Adults 18 years and older | 6,505 (84%) |
| Seniors 65 years and older | 1,639 (21%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,757 (35%) |
| African-American | 939 (12%) |
| Hispanic-Origin | 7,728 (99%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 384 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 780 (13.24%) |
| 9th through 12th Grade | 411 (6.98%) |
| High School Diploma | 2,557 (43.41%) |
| Some College/2-year | 479 (8.13%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,239 (21.04%) |

# Detailed Facility Report

Facility Summary

**PAINT PRO**

**132 JOSE I QUINTON ST, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110043650607

**EPA Region:** 02

**Latitude:** 18.07631

**Longitude:** -66.36206

**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 | 06/29/2011 |
| 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, (PRN008023822)

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

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

# Other Regulatory Reports

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

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

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

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

Facility/System Characteristics

# Facility/System Characteristics

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FRS | | 110043650607 | | | | | N | 18.07631 | -66.36206 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRN008023822 | Other | Inactive ( ) | | | N | | |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110043650607 | PAINT PRO | 132 JOSE I QUINTON ST, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRN008023822 | PAINT PRO | 132 JOSE I QUINTON ST, COAMO, PR 00769 | Coamo 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 | PRN008023822 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRN008023822) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,937 |
| Population Density | 2,543/sq.mi. |
| Housing Units in Area | 4,135 |
| Percent People of Color | 100% |
| Households in Area | 3,342 |
| Households on Public Assistance | 169 |
| Persons With Low Income | 6,509 |
| Percent With Low Income | 82% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.07631 |
| Center Longitude | -66.36206 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,716 (51.32%) |
| $15,000 - $25,000 | 595 (17.79%) |
| $25,000 - $50,000 | 626 (18.72%) |
| $50,000 - $75,000 | 263 (7.86%) |
| Greater than $75,000 | 144 (4.31%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 387 (5%) |
| Minors 17 years and younger | 1,298 (16%) |
| Adults 18 years and older | 6,640 (84%) |
| Seniors 65 years and older | 1,636 (21%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,838 (36%) |
| African-American | 961 (12%) |
| Hispanic-Origin | 7,898 (100%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 397 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 781 (13.04%) |
| 9th through 12th Grade | 402 (6.71%) |
| High School Diploma | 2,589 (43.24%) |
| Some College/2-year | 498 (8.32%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,281 (21.39%) |

# Detailed Facility Report

Facility Summary

**PAINT PRO INC**

**CALLE JOSE A QUINTON #132, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110070595515

**EPA Region:** 02

**Latitude:** 18.076311

**Longitude:** -66.362088

**Locational Data Source:** RCRAINFO

**Industries:** Repair and Maintenance

**Indian Country:** N

# Enforcement and Compliance Summary

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

# Regulatory Information

**Clean Air Act (CAA):** No Information

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

**Resource Conservation and Recovery Act (RCRA):** Active SQG, (PRR000026518)

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

Go To Enforcement/Compliance Details

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

# Other Regulatory Reports

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

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

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

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

Facility/System Characteristics

# Facility/System Characteristics

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| FRS | | 110070595515 | | | | | N | 18.076311 | -66.362088 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| RCRAInfo | RCRA | PRR000026518 | SQG | Active (H ) | | | N | 18.076311 | -66.362088 |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110070595515 | PAINT PRO INC | CALLE JOSE A QUINTON #132, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000026518 | PAINT PRO INC | CALLE JOSE A QUINTON #132, COAMO, PR 00769 | Coamo Municipio |

# Facility SIC (Standard Industrial Classification) Codes

| System | Identifier | SIC Code | SIC Description |
|---|---|---|---|

No data records returned

# Facility NAICS (North American Industry Classification System) Codes

| System | Identifier | NAICS Code | NAICS Description |
|---|---|---|---|
| RCRAInfo | PRR000026518 | 811121 | Automotive Body, Paint, and Interior Repair and Maintenance |

# 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 | PRR000026518 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000026518) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 7,941 |
| Population Density | 2,544/sq.mi. |
| Housing Units in Area | 4,136 |
| Percent People of Color | 100% |
| Households in Area | 3,343 |
| Households on Public Assistance | 169 |
| Persons With Low Income | 6,511 |
| Percent With Low Income | 82% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.076311 |
| Center Longitude | -66.362088 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,715 (51.32%) |
| $15,000 - $25,000 | 595 (17.8%) |
| $25,000 - $50,000 | 625 (18.7%) |
| $50,000 - $75,000 | 263 (7.87%) |
| Greater than $75,000 | 144 (4.31%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 387 (5%) |
| Minors 17 years and younger | 1,300 (16%) |
| Adults 18 years and older | 6,643 (84%) |
| Seniors 65 years and older | 1,637 (21%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,838 (36%) |
| African-American | 962 (12%) |
| Hispanic-Origin | 7,902 (100%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 397 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 783 (13.07%) |
| 9th through 12th Grade | 402 (6.71%) |
| High School Diploma | 2,590 (43.22%) |
| Some College/2-year | 499 (8.33%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,282 (21.4%) |

# Detailed Facility Report

Facility Summary

**SHELL CO PR SS 3646 COOP LA CANDELARIA**

**PR-14 KM 32.5, COAMO, PR 00769**

**FRS (Facility Registry Service) ID:** 110007819156

**EPA Region:** 02

**Latitude:** 18.073724

**Longitude:** -66.361871

**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, (PRR000005645)

**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 | | 110007819156 | | | | | N | 18.073724 | -66.361871 |

| System | Statute | Identifier | Universe | Status | Areas | Permit Expiration Date | Indian Country | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| ICIS | | 1400002777 | | | | | N | 18.073333 | -66.362222 |
| RCRAInfo | RCRA | PRR000005645 | Other | Inactive ( ) | | | N | | |

# Facility Address

| System | Statute | Identifier | Facility Name | Facility Address | Facility County |
|---|---|---|---|---|---|
| FRS | | 110007819156 | SHELL CO PR SS 3646 COOP LA CANDELARIA | PR-14 KM 32.5, COAMO, PR 00769 | Coamo Municipio |
| ICIS | | 1400002777 | SHELL #3646 | CARR 14 KM 32.5, COAMO, PR 00769 | Coamo Municipio |
| RCRAInfo | RCRA | PRR000005645 | SHELL CO PR SS 3646 COOP LA CANDELARIA | RD PR 14 KM 32.5, COAMO, PR 00769 | Coamo 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 | PRR000005645 | No | 03/22/2025 | 0 | 03/21/2025 |

# Three-Year Compliance History by Quarter

| Statute | Program/Pollutant/Violation Type | | QTR 1 | QTR 2 | QTR 3 | QTR 4 | QTR 5 | QTR 6 | QTR 7 | QTR 8 | QTR 9 | QTR 10 | QTR 11 | QTR 12+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCRA (Source ID: PRR000005645) | | | 04/01-06/30/22 | 07/01-09/30/22 | 10/01-12/31/22 | 01/01-03/31/23 | 04/01-06/30/23 | 07/01-09/30/23 | 10/01-12/31/23 | 01/01-03/31/24 | 04/01-06/30/24 | 07/01-09/30/24 | 10/01-12/31/24 | 01/01-03/31/25 |
| | Facility-Level Status | | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified | No Violation Identified |
| | Violation | Agency | | | | | | | | | | | | |

# Informal Enforcement Actions

Last 5 Years

| Statute | System | Source ID | Type of Action | Lead Agency | Date |
|---|---|---|---|---|---|

No data records returned

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

# Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

## Watersheds

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

No data records returned

## Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

## Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

| Chemical Name |
|---|

No data records returned

Community

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

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

| General Statistics (ACS (American Community Survey)) | |
|---|---|
| Total Persons | 8,000 |
| Population Density | 2,563/sq.mi. |
| Housing Units in Area | 4,145 |
| Percent People of Color | 100% |
| Households in Area | 3,361 |
| Households on Public Assistance | 168 |
| Persons With Low Income | 6,551 |
| Percent With Low Income | 82% |

| Geography | |
|---|---|
| Radius of Selected Area | 1 mi. |
| Center Latitude | 18.073724 |
| Center Longitude | -66.361871 |
| Total Area | 3.121 sq.mi. |
| Land Area | 100% |
| Water Area | 0% |

| Income Breakdown (ACS (American Community Survey)) - Households (%) | |
|---|---|
| Less than $15,000 | 1,718 (51.09%) |
| $15,000 - $25,000 | 607 (18.05%) |
| $25,000 - $50,000 | 631 (18.76%) |
| $50,000 - $75,000 | 260 (7.73%) |
| Greater than $75,000 | 147 (4.37%) |

| Age Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Children 5 years and younger | 392 (5%) |
| Minors 17 years and younger | 1,317 (16%) |
| Adults 18 years and older | 6,683 (84%) |
| Seniors 65 years and older | 1,631 (20%) |

| Race Breakdown (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| White | 2,872 (36%) |
| African-American | 981 (12%) |
| Hispanic-Origin | 7,962 (100%) |
| Asian | 0 (0%) |
| Hawaiian/Pacific Islander | 0 (0%) |
| American Indian | 1 (0%) |
| Other/Multiracial | 407 (5%) |

| Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%) | |
|---|---|
| Less than 9th Grade | 789 (13.12%) |
| 9th through 12th Grade | 395 (6.57%) |
| High School Diploma | 2,594 (43.13%) |
| Some College/2-year | 502 (8.35%) |
| B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More | 1,300 (21.62%) |

SEA HORSE
WASTEWATER SERVICES, CSP
Civil and Environmental Engineering Services

September 8, 2025

Mr. Héctor R. Sanjurjo Rodríguez
Director of Federal Programs
Municipality of Coamo, PR

**RE: Clarification on surface oil stains – Phase I ESA, Coamo Floors Project.**

Dear Mr. Sanjurjo,

As responsible for the preparation of the environmental study "Phase *I Environmental Site Assessment* (ESA)" carried out in March 2025 for the project at the intersection of Florencio Santiago Street and Dr. José Celso Barbosa Street in Coamo, the following is clarified regarding the stains observed on the pavement:

1. During the visual field inspection, some surface oil stains were documented on the asphalt. These stains are consistent with the historical use of the property as a car dealership.
2. No tanks, fuel storage areas or evidence of active discharges on the property were observed. Nor were "*Recognized Environmental Conditions (RECs)* related to these stains and/or in accordance with the ASTM E1527-21 Standard identified.
3. In the current condition, the stains on the pavement were isolated spills and ***do not pose a risk to the health or safety of future occupants***, nor do they interfere with the proposed use of the property.
4. It is recommended that, at the time of demolition and construction activities, any section of asphalt affected by oil slicks be removed along with the pavement and disposed of in authorized construction and demolition waste facilities. In case of detecting the presence of hydrocarbons stored in the subsoil during excavation activities, it is recommended to carry out an additional environmental assessment with due sampling to confirm if there was a plume or if the contamination is localized, if necessary.

Based on the information collected, our professional opinion is that the observed surface stains do not constitute a significant environmental risk to the project.

Eng. Eugenio García Vélez, MECE, PE
President

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SEA HORSE
WASTEWATER SERVICES, CSP
Civil and Environmental Engineering Services

# *ENVIRONMENTAL SITE ASSESSMENT PHASE I*

*Project Name:* ***PR-CRP-000145- Proyecto Residencial Comercial Pisos de Coamo***

*26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street,*
*Coamo Urban Center, Coamo PR*

*March 2025.*

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# Executive Summary

Seahorse Wastewater Services, CSP conducted a **Phase I Environmental Site Assessment (ESA)** for the property located at **26 Florencio Santiago Street, at the corner of Dr. José Celso Barbosa Street, Coamo Urban Center, Coamo, PR**, at the request of **Estructuras AE, CSP** and the **Municipality of Coamo**. This **Phase I ESA** has been prepared in accordance with the **American Society for Testing and Materials (ASTM) E1527-21: Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process**, as part of the requirements to qualify for **CDBG-DR** funding for **facility purchase, construction, or major renovation**. The subject property has a total land area of **474 square meters**.

The objective of this assessment is to identify any **Recognized Environmental Conditions (REC), Controlled Recognized Environmental Conditions (CREC),** or **Historical Recognized Environmental Conditions (HREC)** associated with the subject property or adjoining properties. Environmental data collection was extended to a **one-mile radius** from the property location. The scope of work included:

- **Site reconnaissance**
- **Records review**
- **Interviews with facility personnel**
- **Preparation of a final report with findings and professional opinions**

All supporting data used in this assessment are included in the report appendices.

No **Superfund Enterprise Management System (SEMS)** sites were identified within a **one-mile radius** of the subject property. However, two **orphan sites** associated with **Leaking Underground Storage Tanks (LUST)** were identified within the search radius during the environmental assessment. These sites, listed as **SANTIAGO S/S** and **GPR #5246**, appear in the **LUST and UST databases**, but due to insufficient address details, their exact locations could not be determined. Additionally, the subject property at **26 Florencio Santiago St., Coamo, PR** does not appear in any regulatory database searches. No significant **SEMS or Superfund-related** environmental concerns were identified in the vicinity of the site. Based on these findings, no substantial environmental risks are anticipated for the proposed use of the subject property. However, as an **Environmental Consideration, it is strongly recommended that asbestos-containing materials (ACM) and lead-based paint (LBP) assessments be performed prior to demolition or renovation activities due to the age and condition of existing structures. Surface stains observed during site inspection represent an additional environmental consideration; further assessment is recommended prior to site redevelopment.**

In the professional opinion of **Seahorse Wastewater Services, CSP**, based on the findings of this **Phase I ESA**, no **Recognized Environmental Conditions (REC), Controlled Recognized Environmental Conditions (CREC),** or **Historical Recognized Environmental Conditions (HREC)** were identified within the subject property or adjoining properties. Additionally, no **SEMS sites** were found. While two **orphan LUST sites** (**SANTIAGO S/S and GPR #5246**) were noted, they are not expected to pose an environmental risk to the subject property.

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# 1.0 Introduction

This Phase I Environmental Site Assessment (ESA) was conducted to provide an independent and professional evaluation of potential environmental risks associated with the property located at 26 Florencio Santiago Street, at the corner of Dr. José Celso Barbosa Street, in the historic urban center of Coamo. This Phase I Environmental Site Assessment (ESA) was conducted as part of the environmental compliance requirements for the proposed project funded by HUD under the Community Development Block Grant - Disaster Recovery (CDBG-DR) Program.

Seahorse Wastewater Services, CSP performed this Phase I ESA in accordance with the American Society for Testing and Materials (ASTM) Standard E1527-21 and the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries, as mandated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) at the subject property. According to ASTM E1527-21, Recognized Environmental Conditions (RECs) refer to the presence or likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a known or suspected release into the environment, as well as conditions that may pose a material threat of a future release.

## 1.1 Scope of Work

This Phase I ESA was performed in general accordance with the scope of services outlined in the Professional Inquiry and the ASTM E1527 -21. The scope of services includes the following:

- Records Review – Environmental, local, and state records, historical and aerial photographs.
- Site Inspection – Visit to the property to identify REC's.
- Interview – Interviews with the Key manager, property owner, and representatives of local and federal government.
- Final Report – Evaluation and Conclusions.

This scope of service does not include any sampling or testing of surface water, groundwater, or soil.

## 1.2 Assumptions

This report presents a professional evaluation and opinion based on the information gathered during the execution of the Phase I Environmental Site Assessment (ESA). Seahorse Wastewater Services, CSP personnel did not conduct any sample collection activities on the property as part of this assessment. Environmental data were obtained from local and federal agencies, independent environmental databases—such as the EDR Radius Map Report with GeoCheck—as well as other relevant references. Additional information was obtained through interviews with key personnel, data provided by the property owner, and a site reconnaissance.

### 1.3 Limitations and Exceptions

Seahorse Wastewater Services, CSP does not include sampling or testing of structures, surface water, groundwater, or soil within the proposed scope of work. Information requests were formally submitted in writing (please refer to Appendix H for delivery confirmation receipts) to the relevant governmental agencies. No responses were received at the time of this report. The lack of response from these agencies represents a data gap. Based on available information, this data gap is not expected to significantly affect the identification of Recognized Environmental Conditions (RECs) for this assessment. However, since no response was received from the agencies consulted, it is not possible to ensure that there are no liens or encumbrances affecting the property. The site is owned by the Municipality of Coamo, and the property title is included in Appendix B.

# 2.0 Site Description

### 2.1 Location and Current use

| | |
|---|---|
| **Location:** | 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo PR |
| **Parcel Number:** | 345-033-046-09-01 |
| **Total Land Area:** | 474 square meters |
| **Current Use:** | Currently inactive, has two small structures. |
| **Zoning:** | Classification SU (Urban Soil), C-I (Commercial I) (See Appendix C) |
| **Flood Condition:** | [Flood Zone X], Flood Map # 72000C1705HJ (See Advisory Map Appendix C) |
| **Latitude and Longitude:** | Latitude (X): 18° 4' 45.79" N; Longitude (Y): 66° 21' 24.05" W |
| **Ownership information:** | Municipality of Coamo |

The subject property is located at 26 Florencio Santiago Street, at the corner of Dr. José Celso Barbosa Street, in Coamo, PR, within the Coamo Urban Center in the Municipality of Coamo. The surrounding areas are used for commercial, recreational, residential, and institutional purposes. The total land area is approximately 474 square meters, equivalent to 0.117 acres. The site includes an existing structure with an aluminum roof supported by steel columns and a wood-framed addition. Additionally, there is a small accessory structure intended to serve as a sales office. This structure is constructed of approximately 60% concrete blocks and 40% wood, with an extension of wooden panels, all currently in poor condition.

At the time of the site inspection, the subject property was operated by the Municipality of Coamo. The location map in Appendix C shows the subject property and the adjoining properties.

### 2.2 Adjacent Properties

**North:**
Commercial property owned by the Municipality of Coamo, currently functioning as a bakery (Occatio Baking).

**South:**
Florencio Santiago Street followed by a commercial property currently functioning as an auto parts & Repair Shop (Robert Auto Parts and Repair).

**East:**
Residential Building (Plaza Apartments).

**West:**
José C. Barbosa Street, adjacent to a mix-use building with residential and commercial units.

Refer to Appendix C for location Map.

# 3.0 User Provided Information

### 3.1 Review Title

The property deed for the site was fully obtained by the Municipal Government of Coamo in 2016. The registration process in the Municipal Property Registry has been completed, confirming clear ownership by the municipality. Please refer to property deed in Attachment B

### 3.2 Environmental Liens or Activity and Use Limitations (AUL's)

The American Society of Testing and Materials E1527 –21 established a list of questions for the user on information of AUL's:

1.) **"Did a search of recorded land title records identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?"**
Based on information provided by the property owner/user, there are no known environmental cleanup liens or Activity and Use Limitations (AULs)—such as engineering controls, land use restrictions, or institutional controls—filed or recorded under federal, tribal, state, or local law against the subject property. Also, the consulted agencies' lack of response to our enquiries (Appendix H) did not provide any information and since no response was received from the agencies consulted, it is not possible to ensure that there are no liens or encumbrances affecting the property.

2.) **Did a search of recorded land title records identify any AULs, such as Wastewater controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state, or**

**local law?**

Based on information provided by the property owner/user, there are no known environmental cleanup liens or Activity and Use Limitations (AULs)—such as engineering controls, land use restrictions, or institutional controls—filed or recorded under federal, tribal, state, or local law against the subject property. Also, the consulted agencies' lack of response to our enquiries (Appendix H) did not provide any information and since no response was received from the agencies consulted, it is not possible to ensure that there are no liens or encumbrances affecting the property.

3.) **Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business**?

Seahorse Wastewater Services, CSP, does not have any specialized knowledge or experience related to the subject property or nearby properties, nor are we involved in a business that would provide insight into the chemicals or processes associated with the current or former occupants.

4.) **Does the purchase price being paid for this subject property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?**

This project does not involve a purchase or sale transaction, as the subject property is already owned by the Municipality of Coamo. Therefore, no purchase price evaluation was conducted.

5.) **Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,**

**(a.) Do you know the past uses of the subject property?**

Yes, the subject property was rented in the late 1990s by the previous owners to a certified car dealer. The dealer modified the lot for car exhibition and sales by constructing an aluminum roof with steel columns and expanding an existing accessory structure to serve as a sales office. The property has remained largely unchanged since then, though the structures are now in disrepair.

**(b.) Do you know of specific chemicals that are present or once were present at the subject property?**

Not to my knowledge.

**(c.) Do you know of spills or other chemical releases that have taken place at the subject property?**

Not to my knowledge.

**(d.) Do you know of any environmental cleanups that have taken place at the subject property?**

Not to my knowledge.

6.) **Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?**

Not to my knowledge.

## 3.3 Specialized Knowledge or Experience of the User

Asbestos and lead sampling and certification were not performed. The existing structures to be demolished include an aluminum roof supported by steel columns, with a wood-framed addition. Additionally, there is a small accessory structure intended to serve as a sales office. This structure is composed of approximately 60% concrete blocks and 40% wood, with an extension made of wood panels, all of which is in total disrepair.

## 3.4 Actual Knowledge of the User

No information was provided by the user regarding any possible recognized environmental condition in connection to the subject property or adjoining properties.

## 3.5 Reasons for Performing Phase I ESA

This Phase I ESA was performed for the purpose of recognizing and evaluating identified environmental conditions as part of the requirements to qualify for the Facility Purchase, Construction, or Major Renovation using CDBG-DR Disaster Relief Funds.

# 4.0 Records Review

## 4.1 Standard Environmental Record Sources

The purpose of the environmental record review is to obtain and to help identify RECs in connection to the subject property. The ASTM E1527-21 established approximate minimum search distance for records to be reviewed. Database records were obtained from an independent firm. A copy of these environmental reports is included in appendix F and G.

| Standard Environmental Record Sources | Approximate Minimum Search Distance | Findings |
|---|---|---|
| **Federal NPL site List** | 1.0 mile | No NPL sites within the search radius. |
| **Federal Delisted NPL site list** | 1.0 mile | No delisted NPL sites within the search radius. |
| **Federal CERCLA orders and removal list** | 0.5 miles | No CERCLA orders or removals found. |
| **Federal CERCLA NFRAP site list** | 0.5 miles | No NFRAP sites found. |
| **Federal RCRA CORRACTS facilities list** | 1.0 mile | No RCRA CORRACTS facilities found. |
| **Federal RCRA non-CORRACTS TSD facilities list** | 0.5 miles | No TSD facilities found. |
| **Federal RCRA generator list** | 0.25 miles | 1 small quantity generator (SQG) identified: Total Petroleum Puerto Rico Corp, located 0.161 miles NNE.<br><br>Additionally, 1 RCRA Non-Generator/NLR identified: New York Dry Cleaner (0.104 miles ENE). |
| **Federal institutional control/Wastewater control registries** | 0.5 miles | No registries identified. |
| **Federal ERNS list** | 0.001 miles | No emergency release notifications found. |
| **State and tribal list of hazardous waste sites identified for investigation or remediation** | N/A | This state does not maintain a SHWS list. |
| **State and tribal "Superfund" equivalent list** | 1 mile | No equivalent state sites found. |
| **State and tribal hazardous waste facilities list** | N/A | Not applicable for SHWS. |
| **State and tribal landfill and/or solid waste disposal site lists** | 0.5 miles | No landfill/solid waste sites found. |
| **State and tribal leaking storage tank list** | 0.5 miles | No leaking storage tank (LUST) sites found. |

| Standard Environmental Record Sources | Approximate Minimum Search Distance | Findings |
|---|---|---|
| **State and tribal registered storage tank list** | 0.25 miles | 1 UST facility identified: Gasolinas Triunfo, located 0.041 miles NNW. |
| **State and tribal institutional control/Wastewater control registries** | 0.5 miles | No institutional controls identified. |
| **State and tribal voluntary cleanup sites** | 0.5 miles | No voluntary cleanup sites identified. |
| **State and tribal Brownfield sites** | 0.5 miles | No Brownfield sites identified. |

Table 1: Minimum search distance from the subject property

### *4.1.1 Federal NPL and Delisted NPL Sites*

The National Priority List (NPL) is the Environmental Protection Agency (EPA) database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under CERCLA (also known as Superfund Act.). To be on the Superfund list, the site must receive a score based on the EPA's Hazard Ranking System, facilities listed are most common to be pursued to a possible long-term remedial action. The Delisted NPL Sites is a database of sites delisted of the Superfund list.

No NPL sites or delisted NPL sites were identified within the 1-mile radius of the target property Pisos de Coamo at 26 Florencio Santiago, Coamo, PR as noted in the EDR Radius Map Report.

### *4.1.2 Federal CERCLA removals and CERCLA orders and NFRAP Sites*

The former Comprehensive Environmental Response, Compensation, and Liability Act Index System List (CERCLIS) was renamed to Superfund Enterprise Management System (SEMS) by the EPA. SEMS, just as the former CERCILS, is a database of known or suspected uncontrolled or abandoned hazardous waste sites, these sites have either been investigated or are under investigation by the EPA for potential hazardous substance contamination. NFRAP sites are the former CERCLIS sites where the EPA have no plans for further remediation actions.

No SEMS sites were identified within the search radius of 0.5 miles. This includes both active SEMS sites and SEMS-ARCHIVE (NFRAP) sites, as noted in the EDR Radius Map Report for the target property Pisos de Coamo at 26 Florencio Santiago, Coamo, PR.

### *4.1.3 Federal RCRA CORRACTS and non-CORRACTS TSD*

Resources Conservation and Recovery Act (RCRA) Treatment, Storage, and/or Disposal (TSD) is a list of facilities which treat, store, or dispose hazardous waste beyond 90 days. CORRACTS TSD list identifies the facilities with corrective action activity under RCRA.

No RCRA CORRACTS or non-CORRACTS TSD facilities were identified by the information obtain by the EDR Radius Map Report with GeoCheck within 0.5-to-1.0- mile radius to the subject property.

### *4.1.4 Federal RCRA Generator*

Facilities that are listed in RCRA Generator list are designated as Large Quantity Generator (LQG), Small Quantity Generator (SQG), or Very Small Quantity Generators (VSQG), depending on their monthly hazardous waste generation.

- **There was one facility found under RCRA database in the EDR Radius Map Report with GeoCheck or on the subject property and/or adjoining properties.**

  **Type Identified:** Small Quantity Generator (SQG)

  **Location:** Total Petroleum Puerto Rico Corp - Service Station 215642

  **Address:** 95 Calle José Quinton, Coamo, PR 00769

  **Distance from Target Property:** Approximately 0.176 miles (1/8–1/4-mile range)

  **Direction:** Northeast (NE)

  **EPA ID:** PRR000023317

  **Generator Characteristics:**

  **Generator Type:** SQG (Small Quantity Generator of hazardous waste, generating between 100 kg and 1,000 kg of hazardous waste per month).

  **Activities:** Hazardous waste generation, management under the Resource Conservation and Recovery Act (RCRA).

- **There was one additional facility found under the RCRA database in the EDR Radius Map Report with GeoCheck on the subject property and/or adjoining properties.**

  **Type Identified:** RCRA Non-Generator/NLR

  **Location:** New York Dry Cleaner

  **Address:** 19 José I. Quinton, Coamo, PR 00769

  **Distance from Target Property:** Approximately 0.104 miles (1/8–1/4-mile range)

  **Direction:** East-Northeast (ENE)

  **EPA ID:** PRN008009706

  **Generator Characteristics:**

  **Generator Type:** Non-Generator/NLR (This facility does not currently generate hazardous waste under RCRA regulations.)

**Activities:** The facility has been registered in environmental databases but is not actively handling, storing, or disposing of hazardous waste. It is listed in the RCRA, FINDS, and ECHO databases but does not have any known hazardous waste violations or reported spills. This information confirms that New York Dry Cleaner does not present a recognized environmental concern at this time based on available records.

Two sites within a 0.50-mile radius of the project were identified as part of the hazardous waste generator databases under RCRA. Total Petroleum Puerto Rico Corp (small generator - SQG) and New York Dry Cleaner (Non-Generator). The review of the available information revealed that none of the sites had known hazardous waste violations or reported spills. Therefore, these sites do not represent recognized environmental conditions (RECs) for the evaluated project.

### *4.1.5 Federal ERNS List*

The Emergency Response Notification System (ERNS) is a database that compiles information nationwide of accidental releases of oils and hazardous substance into the environment. The database contains information from spills reports that is recollected from, EPA, US Coast Guard (USCG), Department of Transportation (DOT), and the National Response Center (NRC).

The subject property was not found in the ERNS database on the EDR Radius Map Report with GeoCheck.

### *4.1.6 State Landfill/Solid Waste Disposal Sites*

Landfills and Solid Waste Disposal Sites must have an operating permit under the EPA and follows regulations established by RCRA.

The Department of Natural and Environmental Resources of Puerto Rico (DRNA, for its Spanish acronym) register every landfill and solid waste disposal sites that operates in Puerto Rico.

No landfills and/or solid waste disposal facilities were identified by the information obtain by the EDR Radius Map Report with GeoCheck within 0.5 mile to the subject property.

### *4.1.7 State Leaking Underground Storage Tank Sites*

The Puerto Rico Department of Natural and Environmental Resources (DRNA) maintains a database of all Leaking Underground Storage Tanks (LUST) in Puerto Rico.

According to the EDR Radius Map Report, two orphan LUST sites were identified within the search radius of the target property, GPR #5246 and Santiago S/S. The report provides only approximate addresses for these LUST sites. Their approximate locations were further

evaluated using the Puerto Rico Interactive Map (MIPR) from the Planning Board of Puerto Rico.

Database: Inactive Sites Lust List 2020 DRNA

Search Distance: 0.25 miles

Facility Name: Capitol Gasoline S/S / Texaco #819 / Gasolinas Triunfo S/S

Address: José I. Quinton St., Coamo, PR

Distance from Target Property: Approximately 0.03 miles (within the 1/8-mile range)

Direction: Northeast (NE)

Facility ID: 2-861875

Tank Status: Permanently out of use.

Database: Inactive Sites Lust List 2020 DRNA / EDR Radius Map Report

Search Distance: 0.25 miles

Facility Name: GPR #5246

Address: 150 Street Km 18.7, Coamo, PR

Distance from Target Property: Approximately 0.95 miles

Direction: West (W)

Facility ID: 91-0397

Tank Status: Permanently out of use.

The site is located beyond the 0.25-mile search radius; however, since it appears as an orphan site in the EDR Radius Map Report, its exact location was identified using the Inactive Site LUST List 2020 and the Puerto Rico Interactive Map (MIPR) from the Puerto Rico Planning Board. Given its estimated distance and position relative to the subject property, this site does not represent a significant environmental concern.

Database: Inactive Sites Lust List 2020 DRNA / EDR Radius Map Report

Search Distance: 0.25 miles

Facility Name: Santiago S/S

Address: 14 Street Km 1.7, Coamo, PR

Distance from Target Property: Approximately 0.95 miles

Direction: Southwest (SW)

Facility ID: 86-0638

Tank Status: Permanently out of use.

The site is located beyond the 0.25-mile search radius; however, since it appears as an orphan site in the EDR Radius Map Report, its exact location was identified using the Inactive Site LUST List 2020 and the Puerto Rico Interactive Map (MIPR) from the Puerto Rico Planning Board. Given its estimated distance and position relative to the subject property, this site does not represent a significant environmental concern.

Given their approximate distance (>0.5 miles) and their relative elevations (one significantly higher and one significantly lower than the subject property), it is unlikely that any contaminant migration from these orphan LUST sites could impact the subject property. Therefore, these sites do not constitute significant environmental risks.

### *4.1.8 State Underground Storage Tank Sites*

The DRNA compiles information on a database of all the Underground Storage Tanks (UST) in Puerto Rico.

There was one facility found under the Underground Storage Tanks (UST) database in the EDR Radius Map Report with GeoCheck on the subject property and/or adjoining properties.

Database: State and Tribal Underground Storage Tank (UST) Sites

Search Distance: 0.25 miles

Facility Name: Gasolinas Triunfo S/S / Capitol Gasoline S/S / Texaco #819

Address: José I. Quinton St., Coamo, PR

Distance from Target Property: Approximately 0.03 miles (within the 1/8-mile range)

Direction: West-Northwest (WNW)

Facility ID: 2-861875

Tank Status: Permanently out of use.

This site is listed on the Inactive Sites Lust List 2020 of the DRNA and is permanently out of use.

### *4.1.9 State Voluntary Clean-up and Brownfield Sites*

The DRNA has a register system with voluntary and brownfield sites in Puerto Rico. **Based on** the information provided by DRNA no voluntary clean up or brownfields was found within 0.5-mile from the subject property.

## 4.2 Additional Environmental Record Sources

Seahorse Wastewater Services submitted requests to local and federal agencies for any information retained by them regarding the existing properties. A communication was sent to the Puerto Rico Department of Natural and Environmental Resources (DRNA) on December 3, 2024. As of the preparation of this document, no response had been received from the DRNA (refer to Appendix H). Similarly, a communication was sent to the Environmental Protection Agency (EPA) on December 3, 2024. No responses were received at the time of this report. The lack of response from these agencies represents a data gap. Based on available information, this data gap is not expected to significantly affect the identification of Recognized Environmental Conditions (RECs) for this assessment. However, since no response was received from the agencies consulted, it is not possible to ensure that there are no liens or encumbrances affecting the property.

## 4.3 Physical Setting

The USGS Topographic Map Coamo Quadrangle, 7.5-minute series dated 2018 (scale 1:24,000), shows the location of the subject property (See Appendix C). The information reviewed on the EDR Report indicates a ground surface elevation of approximately 410 feet above Mean Sea Level (MSL). The highest point in the surroundings is located approximately 0.75 miles to the south of the subject property at an elevation of 580 feet above MSL. The lowest point is approximately 1 mile to the north of the subject property, with an elevation of 300 feet above MSL. To the west of the subject property within 0.5 miles is Las Tunas Creek, which flows from south to north. The subject property is situated within the hydrologic basin of the Guanajibo watershed. The hydrologic group is Class D, representing soils with poor infiltration rates and clayey textures.

The subject property is located in a non-flood prone area according to the Advisory Flood Maps from FEMA and the Puerto Rico Planning Board with an effective date of June 2018. The specific flood zone classification is X, that has a 0.2 % of flood annual probability (See Appendix C).

**The EDR Radius Map findings summary explicitly states that there are no mapped wells from the USGS or PWS databases within the search radius.**

**USGS Wells: No USGS wells are identified within the 1-mile radius of the subject property in the EDR Radius Map.**

**Federal Public Water Supply (PWS): No mentions or listings of Federal PWS sites within the 1-mile radius of the subject property were identified in the EDR Radius Map.**

## 4.4 Historical Use Information of the Property

The project site, located south of the Public Square of Coamo, was integrated into the urban layout by 1853 but remained unoccupied until 1905, according to the land registry. A single-story, "criollo style" wooden house with a west-facing balcony was built on the site by 1936 but was demolished

in the mid-1940s.

A second house was constructed and demolished by the mid-1990s, followed by a small accessory structure facing Calle Florencio Santiago.

The site, part of Coamo's Historic Urban Center near the Main Square, had two houses constructed and subsequently demolished between 1936-1990. According to a notarized sale document, the 445.54-square-meter plot, owned by the Municipality of Coamo, is located at the corner of Dr. Barbosa and Florencio Santiago Streets, with detailed boundaries provided.

### 4.5 Historical Use Information of the Adjoining Properties

The site has two adjoining properties:
The adjoining property to the East is a Residential Building (Plaza Apartments).
The adjoining property to the North is a Commercial property owned by the Municipality of Coamo, currently functioning as a bakery (Occatio Baking).

Historically, the adjoining properties have predominantly been residential and municipally owned land with no records of industrial operations or activities involving hazardous materials. No environmentally sensitive or potentially contaminating historical uses were identified based on available historical records and EDR Radius Map Report data (EDR Inquiry Number: 7837151.2s, December 02, 2024- Appendix F).

## 5.0 Site Reconnaissance

### 5.1 Methodology and Limiting Conditions

On December 02, 2024, personnel of Seahorse Wastewater Services visited the site and conducted a visual inspection to the subject property and adjoining sites. This site reconnaissance seeks to identify recognizable environmental conditions (REC) on the subject property and adjoining properties. During the inspection photographs were taken and are included in Appendix A. The weather conditions during the inspections were favorable, clear skies and temperatures ranged of 80-90° F.

### 5.2 General Site Setting

The total area of land that includes the subject property is approximately 474 square meters. The site has two small structures on it that are to be demolished as part of the proposed project. The Municipality of Coamo bought the lot in 2019 from the Gierbolini Amstrong family. The Municipality, through a Certification, stated that the previous owners informed that in the late 90's they rented the empty lot to a Certified Car Dealer and to adapt the lot, for the exhibition and sale of the cars, the dealer built the existing aluminum roof with steel columns and expanded in wood an existing accessory small structure to be used as a sales office structure. This structure consists of approximately 60% concrete blocks and 40% wood, with a wooden panel addition, all currently deteriorated.

One of the previously mentioned structures on site located on the west side of the lot, has a deteriorated aluminum roof with metal supports and is approximately 80 feet long by 20 feet deep and 10 feet high. The other accessory structure on site mentioned above is located in the southeast corner of the lot. It is a small deteriorated and abandoned concrete and wood structure, approximately 30 feet long by 20 feet deep and 8 feet high.

## 5.3 Hazardous Substance and Petroleum Products Usage/ Storage

During the site inspection, hazardous substance and/or petroleum usage/ storage were not observed on the subject property or adjoining properties.

Two orphan LUST sites, identified as **SANTIAGO S/S** and **GPR #5246**, were reported in the EDR Radius Map Report (Appendix F). Given their topographical positions—one site situated at a significantly higher elevation and the other at a significantly lower elevation relative to the subject property—and considering the distance exceeding 0.5 miles, it is unlikely that contaminant migration pathways exist toward the subject property. Thus, these sites are considered to represent no significant environmental risk.

## 5.4 Above and Underground Storage Tanks

No above or Underground Storage Tank (UST) were observed on the subject property or adjoining properties.

## 5.5 Drums and Containers

During the site inspection, drums and containers were not observed on the subject property or adjoining properties.

## 5.6 PCB Usage

At the time of the site inspection PCB's usage was not observed.

## 5.7 Solid Waste

Since the subject property is not operational it does not generate any solid waste.

## 5.8 Wastewater and Stormwater

Wastewater generated on the subject property is discharged into the public Wastewater collection system. No National Pollutant Discharge Elimination System (NPDES) are listed in the subject property.

## 5.9 Asbestos and Lead

No asbestos-containing materials (ACM) or lead-based paint (LBP) studies were conducted for the subject property.

# 6.0 Interviews

## 6.1 Interview with Owner/ Key Manager

A questionnaire was developed according to ASTM Standard E1527-21 to be completed by the information provided by the key manager and the collected data from the site inspection (Refer to Appendix I).

An interview was conducted on January 26, 2025, with Héctor R. Sanjurjo Rodríguez (Key Manager and interviewed neighbor). The interviewee confirmed no prior knowledge of environmental site assessments, environmental compliance audits, environmental site investigations, environmental permits, past litigation, pending or threatened legal actions related to hazardous substances or petroleum products at the subject property. No additional neighbors were interviewed separately, the adjoining lots are municipally owned, and the nearest residential structure is located more than 60 meters from the subject property.

Detailed interview information is available in Appendix I.

## 6.2 Interview with Others (Neighbors)

No additional neighbors were interviewed separately for this ESA. The adjoining lots are municipally owned, and the nearest residential structure is located more than 60 meters from the subject property.

# 7.0 Evaluation

## 7.1 Findings

The Phase I ESA for the subject property at 26 Florencio Santiago, Coamo, Puerto Rico, identified the following key findings:

1. **Recognized Environmental Conditions (REC):**
    - Environmental Considerations: Although not identified as Recognized Environmental Conditions (RECs), asbestos-containing materials (ACM) and lead-based paint (LBP) have not yet been evaluated at the subject property. Given the planned demolition activities, conducting assessments for ACM and LBP is strongly recommended to comply with regulatory standards and prevent potential exposure risks.
2. **Controlled Recognized Environmental Conditions (CREC) and Historical Recognized Environmental Conditions (HREC)**:
    - No CREC or HREC were identified on the subject property or adjoining properties.

3. **Regulatory Database Findings**:

    - Two orphan sites with LUST were identified within a one-mile radius of the property. Given the topographical position (one site situated at a significantly higher elevation and the other at a significantly lower elevation relative to the subject property), as well as the distance (>0.5 miles), migration pathways toward the subject property are considered unlikely. Therefore, these orphan sites (SANTIAGO S/S and GPR #5246) represent no significant environmental risk to the target property.

4. **Physical and Operational Observations**:

    - The site inspection revealed no additional evidence of hazardous substances, petroleum products, underground or aboveground storage tanks, or PCB usage. Visual inspection identified surface stains onsite (**Appendix A**). It is an impermeable surface (asphalt); thus, no contaminant migration is anticipated. The property owner had no knowledge of when or what caused the stains. Therefore, although noted, the stains do not appear indicative of a significant release of hazardous substances. As a precaution, further visual or analytical evaluation is recommended before any site redevelopment.

    - The property remains non-operational, with no Wastewater or stormwater discharges and no solid waste generation.

## 7.2 Opinions

1. **Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP)**

    - Environmental Considerations: Although not identified as Recognized Environmental Conditions (RECs), asbestos-containing materials (ACM) and lead-based paint (LBP) have not yet been evaluated at the subject property. Given the planned demolition activities, conducting assessments for ACM and LBP is strongly recommended to comply with regulatory standards and prevent potential exposure risks.

2. **LUST Sites**

    - The two orphan LUST sites identified within one mile of the property do not pose an **immediate** risk due to their distance (>0.5 miles) and the absence of documented releases.

3. **Other Environmental Conditions**

    - Visual inspection identified surface stains onsite (**Appendix A**). It is an impermeable surface (asphalt); thus, no contaminant migration is anticipated. The property owner had no knowledge of when or what caused the stains. Therefore, although noted, the stains do not appear indicative of a significant release of hazardous substances. As a precaution, further visual or analytical evaluation is recommended before any site redevelopment.

- The absence of additional RECs, CRECs, or HRECs, combined with no significant findings in regulatory databases, suggests that the subject property does not present substantial environmental risks that would hinder its intended use.

## 7.3 Conclusions

This Phase I Environmental Site Assessment (ESA) for the property located at 26 Florencio Santiago, Coamo, Puerto Rico, was conducted in accordance with **ASTM E1527-21** standards and **EPA's All Appropriate Inquiries (AAI)** requirements. The following conclusions are made:

1. **Recognized Environmental Condition (REC)**

   - Based on this Phase I Environmental Site Assessment (ESA), no Recognized Environmental Conditions (RECs), Controlled Recognized Environmental Conditions (CRECs), or Historical Recognized Environmental Conditions (HRECs) were identified at the subject property.
   - As an Environmental Consideration, asbestos-containing materials (ACM) and lead-based paint (LBP) studies are recommended before any demolition activities to ensure compliance with health and safety regulations.

2. **Implications for Redevelopment**

   - If ACM or LBP are identified, proper abatement and disposal procedures by a certified remediation contractor are required to comply with health and safety regulations.
   - If no ACM or LBP is found, demolition and redevelopment may proceed with standard environmental precautions.

3. **Other Considerations**

   - No **CREC** or **HREC** were identified on the subject property or adjoining properties.
   - Two orphan LUST sites were noted within the one-mile search radius; however, their location more than 0.5 miles from the subject property minimizes potential risks.

4. **Recommendations**

   1. Conduct an asbestos and lead **study** before any demolition activities to determine potential environmental risks.
   2. Maintain communication with relevant regulatory agencies to address any future findings or updates and ensure continued compliance with all applicable health and safety regulations.

Even though sampling activities are non- scope of this ESA Phase 1, certified reports of asbestos, lead and mold are included on appendix H.

# 8.0 Consulted References

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Junta de Planificación. (2010). Classification/Qualification Map Pueblo Ward, Municipality of Coamo.

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Departamento de Recursos Naturales y Ambientales (DRNA). (2020). *Inactive Sites LUST List 2020*. Puerto Rico.

# 9.0 Appendixes

Appendix A – Inspection Photos

Appendix B – User provided information

Appendix C – Maps

Appendix D –As-Built Site & Floor Plans

Appendix E – Aerial Photographs

Appendix F – EDR Radius Map Report with GeoCheck

Appendix G – City Directory

Appendix H – Communications with concerning agencies

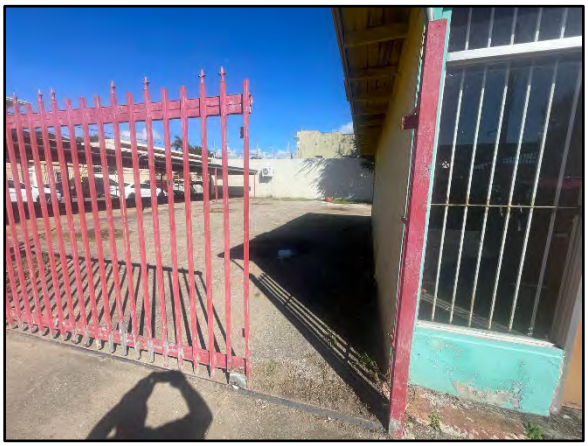
Appendix I – Questionnaire

Appendix J – Inactive LUST Sites List (2020)

## Appendix A – Site Inspection Photos

**Project Site- Interior view of existing structures**

**Project Site- Exterior view of existing structures**



**Project Site- Exterior view of existing structures**

**Project Site- Exterior view of existing structures**

**Project Site- Exterior view of existing structures**

**Project Site- Exterior view of existing structures and Surroundings**

**Project Site- exterior view of site and surroundings**

**Project Site- Exterior view of site and surrounding properties**

**Project Site- Exterior view of site and surroundings**

**Project Site- Exterior view of existing structures**

**Project Site- interior view of site and surroundings**

**Project Site- Interior view of site**

Project Site- Interior view of site and its structures

Project Site- Interior view of existing structures

Project Site- interior view of site and surroundings

Project Site- Interior view of site ans existing structures

# Appendix B – User Provided Information

1. Property Deed

Florencio Santiago #26

# *Ramón Maurás Valentín*

**Abogado Notario**

**P.O. Box 474**
**Coamo, Puerto Rico 00769**

**Tel: (787) 825-5051**
**Fax: (787) 825-1267**
**ramonmauras@aol.com**

## *ESCRITURA NÚMERO 16*

## *DE*

## *COMPRAVENTA*

## *OTORGADA POR:*

***ADOLFO LUIS GIERBOLINI BORELLI***
***GINA MARÍA GIERBOLINI ARMSTRONG,***
***FERNANDO ALFREDO GIERBOLINI ARMSTRONG,***
***ADOLFO LUIS GIERBOLINI ARMSTRONG &***
***GIOVANNA GIERBOLINI ARMSTRONG***

## *A FAVOR DE:*

***MUNICIPIO DE COAMO***

*En Coamo, Puerto Rico a -14- de abril de 2016.*

——**ESCRITURA NÚMERO DIECISEIS**——

——————————**COMPRAVENTA**——————————

——En la Ciudad de Coamo, Puerto Rico, a los catorce (14) días del mes de abril de dos mil dieciséis (2016).——————————

——————————**ANTE MÍ**——————————

—**RAMÓN MAURÁS VALENTÍN**, Abogado y Notario Público del Estado Libre Asociado de Puerto Rico, con residencia y estudio abierto en la Ciudad de Coamo, Puerto Rico.——————————

——————————**COMPARECEN**——————————

—**DE LA PRIMERA PARTE: DON ADOLFO LUIS GIERBOLINI BORELLI**, mayor de edad, soltero, propietario, vecino de Coamo, Puerto Rico e identificado mediante Licencia de Conducir Número tres uno dos tres nueve uno (312391), **DOÑA GINA MARIA GIERBOLINI ARMSTRONG**, mayor de edad, casada, propietaria y vecina de Hato Rey, Puerto Rico, identificada mediante la Licencia de Conducir Número uno cinco cinco ocho cinco seis dos (1558562) por sí y en representación de **DON FERNANDO ALFREDO GIERBOLINI ARMSTRONG**, mayor de edad, soltero, vecino de Coamo, Puerto Rico, identificado mediante la Licencia de Conducir Numero uno tres seis seis cero cinco seis (1366056), de **DON ADOLFO LUIS GIERBOLINI ARMSTRONG**, mayor de edad, casado, propietario, vecino de Dorado, Puerto Rico, identificado mediante la Licencia de Conducir Número uno ocho siete tres cuatro dos cuatro (1873424) y de **DOÑA GIOVANNA GIERBOLINI ARMSTRONG**, mayor de edad, soltera, propietaria, vecina de Coamo, identificada mediante la Licencia de Conducir Número dos cero ocho seis dos dos ocho (2086228) *según autorizada mediante escritura* de Poder General número diecisiete (17) otorgada ante la Notario Melba A. Rivera Aponte el veintiocho (28) de marzo de dos mil once (2011), inscrita bajo el *número mil trescientos cuarenta y tres guión ciento cuarenta y cinco* (1343-145) el cuatro (4) de abril de dos mil once (2011) en el Registro de Poderes.——————————

———————————————————————

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——**DE LA SEGUNDA PARTE: MUNICIPIO DE COAMO,** una entidad política y jurídica organizada bajo las disposiciones de la Ley Orgánica de los Municipios de Puerto Rico, conocida como la Ley Número Ochenta y Uno (81) del treinta (30) de agosto de mil novecientos noventa y uno (1991), seguro social patronal seis seis cero guión cuatro tres guión tres cinco seis uno (660-43-3561), representado en este acto por su **HONORABLE ALCALDE, JUAN CARLOS GARCÍA PADILLA,** mayor de edad, casado, vecino de Coamo, Puerto Rico; identificada mediante Tarjeta Electoral tres uno cinco uno ocho cuatro seis (3151846), en adelante denominado "EL COMPRADOR"——————————

——————————**DOY FE**——————————

—Por no conocer a los comparecientes los he identificado por medio de los documentos que se describen en este instrumento, y por sus dichos con relación a su edad, estado civil, ocupación y vecindad. Me aseguran tener, y a mi juicio tienen, la capacidad legal necesaria para otorgar el presente instrumento público, y en tal virtud libre y voluntariamente: ——————

——————————**EXPONEN**——————————

——**PRIMERO:** Que Don Adolfo Luis Gierbolini Borelli adquirió su participación mediante Compraventa por la Escritura Número cuarenta y seis (46) ante el Notario José Tomas Rojas Nieves el diez (10) de octubre de mil novecientos noventa (1990) y los demás comparecientes son co-dueños cada uno en pleno dominio de sus respectivas participaciones como miembros de la Sucesión de Gina Elizabeth Armstrong Fagot según se dispuso en la Resolución de Declaratoria de Herederos de fecha nueve (9) de junio de 2005, del bien inmueble que enclava en un solar municipal que se describe a continuación:——————————

——**RUSTICA: Solar sito en la Calle Dr. Barbosa esquina Ermita, hoy esquina Florencio Santiago de esta población, enclavado en la finca numero mil cuarenta y nueve (1049) de propiedad del Municipio de Coamo, Puerto Rico, con un área superficial de cuatrocientos cuarenta y cinco punto cincuenta y cuatros metros cuadrados (445.54 m.c.) en lindes por el OESTE: en dieciocho punto ochenta y cinco metros (18.85m) que es el frente de la referida calle; por el SUR: en veintitrés punto cinco metros (23.05m) en limites con solar de la calle Ermita, hoy Florencio Santiago; por el ESTE: en diecinueve punto veintitrés metros (19.23m) en lindes con sucesión Borelli que es el fondo del solar y por el NORTE: en veintitrés punto tres metros (23.03m) con el solar de la casa de Sucesión Borelli.**——————————

——No consta inscrita en el Registro de la Propiedad de Barranquitas.——

——**TERCERO:** Este inmueble por sí se halla libre de cargas y gravámenes.——

——————————**COMPRAVENTA**——————————

——**CUARTO:** Que las partes tienen convenida la compraventa de sus respectivas participaciones indivisas en la estructura que enclava en el inmueble descrito en el hecho PRIMERO y la llevan a efecto sujeto a las siguientes: ——

——————————**CLÁUSULAS Y CONDICIONES**——————————

——**PRIMERA:** Que la PRIMERA PARTE por la presente vende, cede y traspasa a favor de la SEGUNDA PARTE que la compra sus respectivas participaciones indivisas en la estructura que enclavada en el inmueble descrito en el párrafo PRIMERO, haciendo constar la SEGUNDA PARTE que ha examinado el inmueble objeto de la presente transacción con todos sus usos, anexos y servidumbres, y que por no encontrar que dicha finca adolezca de vicios de ninguna clase, recibe la estructura aquí vendido a su entera satisfacción para que lo posea, goce y disfrute como único y legítimo dueño.——

——**SEGUNDA:** Que constituye el convenido y ajustado precio de compraventa del inmueble en el párrafo PRIMERO objeto de esta escritura la cantidad de **CINCUENTA Y CINCO MIL DOLARES CON CERO CENTAVOS ($55,000.00).** La PRIMERA PARTE acepta haber recibido de la SEGUNDA PARTE, con anterioridad a este acto, la cantidad total de la compraventa.——

——**TERCERA:** Que la tasación del inmueble objeto de esta compraventa tiene el endoso favorable del Centro de Recaudación de Ingresos Municipales, según surge de carta de fecha cuatro (4) de diciembre de dos mil quince (2015).——

——**CUARTA:** Que la adquisición por la SEGUNDA PARTE de la referida parcela fue aprobada por la Honorable Legislatura Municipal del Municipio de Coamo, tanto en su valor como en el uso de la misma, según surge de la Ordenanza Número Veintitrés (23) de la Serie Dos Mil Quince

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guión Dos Mil Dieciséis (2015-2016), aprobada el dos (2) de marzo de dos mil dieciséis (2016).----------

----**QUINTA:** Que en virtud del pago antes descrito, la PRIMERA PARTE otorga a favor de la SEGUNDA PARTE la más formal y eficaz carta de pago conforme a derecho, entrando la SEGUNDA PARTE en la inmediata posesión y disfrute del inmueble y estructura vendídole sin más acto o formalidad que el presente otorgamiento.----------

----**SEXTA:** Que la PARTE VENDEDORA se compromete al saneamiento en caso de evicción y a entregar la propiedad aquí vendida libre de cualquier contrato de arrendamiento que pudiera estar vigente.----

----**SEPTIMA:** Las partes comparecientes reconocen que el Notario le advirtió sobre las disposiciones de la Ley Número once (11) del ocho (8) de marzo de mil novecientos noventa y ocho (1998), y del Reglamento sobre Zonas Susceptibles de Inundación , advirtiéndoles a los otorgantes que de encontrarse el inmueble objeto de esta transacción en una zona inundable, cualquier titular y/o ocupante presente o futuro del mismo viene obligado a cumplir con las mencionadas disposiciones legales, y así mismo de que el incumplimiento de dichas disposiciones legales resultaría en un acto ilegal, de todo lo cual las partes comparecientes reconocen estar advertidas, obligándose a su fiel cumplimiento en caso de que les sea de aplicación.----------

----**OCTAVA:** Las partes comparecientes reconocen y aceptan que lo expresado en esta escritura está de acuerdo con la Certificación Registral a instancia del Municipio de Coamo de fecha veintitrés (23) de julio de dos mil quince (2015).----------

----**NOVENA:** Las partes acuerdan que la PRIMERA PARTE será responsable del pago de los sellos de rentas internas y de la Sociedad de Asistencia Legal que correspondan al original de la escritura, así como será también responsable del pago de los honorarios de abogados correspondientes.----------

----**DECIMA:** El Notario autorizante advierte a los comparecientes de la importancia y conveniencia de haber tomado conocimiento del estado

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ABOGADO-NOTARIO
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contributivo del inmueble mediante certificaciones del Centro de Recaudación de Ingresos Municipales (CRIM), del cual se desprende el estado contributivo de la propiedad y sus deudas, si alguna, y haber sido advertidos sobre el contenido, alcance y limitaciones de dicha certificación y el riesgo de que el CRIM expida recibo de cobro adicional.----------

---Acuerdan las partes que cualquier contribución impuesta o que se imponga sobre la propiedad correspondiente a periodos contributivos hasta esta fecha, serán de cuenta y cargo de la PRIMERA PARTE y en adelante serán de cuenta y cargo de la SEGUNGA PARTE.----------

---El Notario autorizante advierte a la SEGUNDA PARTE que de ser su intención utilizar el inmueble objeto de la presente compraventa como residencia principal, deberá solicitar los beneficios de la exoneración contributiva de contribución sobre la propiedad inmueble, a tenor con el Artículo Dos punto Cero Uno (2.01) de la Ley Número Ochenta y Tres (83) de treinta (30) de agosto de mil novecientos noventa y uno (1991), según enmendada, conocida como "Ley de Contribución Municipal sobre la Propiedad de 1991".----------

---La propiedad antes descrita se identificada en el CRIM con el número de catastro **trescientos cuarenta y cinco guion cero treinta y tres guion cero cuarenta y seis guion cero nueve guion cero cero uno (345-033-046-09-001).**----------

---**UNDECIMA:** La PRIMERA PARTE representa y garantiza a la SEGUNDA PARTE que, según su mejor conocimiento, el inmueble a cuya compraventa se contrae la presente escritura, no ha sido utilizado para el almacenaje y/o disposición de materia o sustancia peligrosa, tóxica o contaminante de tipo alguno, según éstas se definen en las leyes y reglamentos estatales y federales aplicables; incluyendo, pero sin limitarse a éstas, que contengan asbesto, plomo o cloruro de polybifenil; como tampoco ha ocurrido derrame alguno en el mismo de materia o sustancia contaminante alguna. A tenor con las disposiciones de la Ley Federal para la Reducción de los Riesgos Provocados por la Pintura a Base de Plomo en Viviendas Residenciales, 42 U.S.C. 4851 y siguientes, el infrascrito

Notario advierte en este acto a las partes, particularmente a la SEGUNDA PARTE como sigue: (i) que si la estructura objeto de compraventa fue construida con anterioridad al mil novecientos setenta y ocho (1978), la misma podría estar contaminada con plomo y/o asbesto; (ii) de los peligros que dicha contaminación puede causar a los ocupantes de la propiedad; y (iii) de su derecho a inspeccionar la propiedad con por lo menos diez (10) días de antelación al otorgamiento de la presente escritura con el propósito de detectar la presencia de plomo y/o asbestos. Hechas así tales advertencias, la SEGUNDA PARTE renuncia en este acto a que se posponga este otorgamiento para hacer uso de su derecho de inspección, manifestando el infrascrito Notario su decisión e interés en continuar con este otorgamiento.----------

----------**ADVERTENCIAS, OTORGAMIENTO Y LECTURA**----

—Tal es la escritura que las partes otorgan y en la que se ratifican, luego de hacerle Yo, el Notario, las advertencias legales pertinentes.----------

—Así lo dicen y otorgan ante mí los comparecientes sin requerir la presencia de testigos, de cuyo derecho les advertí tenían, y sin que medien circunstancia alguna que lo requiera conforme a la Ley Notarial vigente.---

—Leída que fue esta escritura por los comparecientes otorgantes, se ratifican éstos en su contenido y la firman conmigo habiendo fijado además, los comparecientes, sus iniciales al margen de cada folio de esta escritura según lo requiere la vigente Ley Notarial.----------

—**DOY FE** de que los otorgantes vendedores depositaron en la Oficina de esta notaría en la fecha de este otorgamiento, la Planilla Informativa sobre Segregación, Agrupación o Traslado de Bienes Inmuebles, requerida por el Artículo II de la Ley Notarial de mil novecientos ochenta y siete (1987), Sección dos mil veinte y dos (2,022), del Título Cuatro (4) de las Leyes de Puerto Rico Anotadas, debidamente cumplimentada, la cual revisé y rectifiqué con la anuencia de todas las partes, planilla que a mi juicio satisface los requisitos legales, y ha sido firmada por los otorgantes vendedores, certificando mediante dichas firmas y bajo su responsabilidad la veracidad de la información suministrada, advertencia que les hice

saber, además de indicarle sobre la remisión de dicho documento al Departamento de Hacienda del Estado Libre Asociado de Puerto Rico, conforme a la Ley.----------

—Y de todo lo consignado en este instrumento público, de haberse observado la unidad del acto y de quedar adheridos y cancelados los correspondientes sellos de rentas internas y del Colegio de Abogados de Puerto Rico, Yo el Notario, que firmo, signo, sello y rubrico, DOY FE.—

**Firmado: Adolfo Luis Gierbolini Borelli, Gina María Gierbolini Armstrong por sí y en representación de Fernando Alfredo Gierbolini Armstrong, Adolfo Luis Gierbolini Armstrong y Giovanna Gierbolini Armstrong.----------**

**Firmado, signado, sellado y rubricado: Ramón Maurás Valentín, Notario Público----------**

**Tiene el signo, sello, rúbrica notarial y escrita las iniciales de los otorgantes. Adheridos los correspondientes sellos de Rentas Internas y el sello notarial, todo de acuerdo con la Ley.----------**
**DOY FE de que es PRIMERA copia del original de su número con el que concuerda bien y fielmente. Y a requerimiento de parte interesada expido la presente en -7- hojas de papel marcadas con mi sello, signo, rúbrica notarial y dejo nota de saca en la matriz en COAMO, Puerto Rico, en la misma fecha de su otorgamiento.----------**

Ramón Maurás Valentín
ABOGADO-NOTARIO
lex veritas

ESTA[illegible]E ASOCIADO DE PUERTO RICO
TRIB[illegible]AL DE PRIMERA INSTANCIA
SALA DE COAMO
001 SALON DE SESIONES

| | | |
|---|---|---|
| GIERBOLINI BORELLI, ADOLFO LUIS | * | CASO NUM. B2C1200500919 |
| | * | |
| VS | * | SOBRE: |
| EX PARTE | * | |
| | * | |
| | * | DECLARATORIA DE HEREDEROS |

* * * * * * * * * * * * * * * * * * *

NOTIFICACION DE SENTENCIA

EL SECRETARIO QUE SUSCRIBE NOTIFICA A USTED QUE ESTE TRIBUNAL HA DICTADO SENTENCIA EN EL CASO DE EPIGRAFE CON FECHA DE 09 DE JUNIO DE 2005 . QUE HA SIDO DEBIDAMENTE REGISTRADA Y ARCHIVADA EN LOS AUTOS DE ESTE CASO, DONDE PODRA USTED ENTERARSE DETALLADAMENTE DE LOS TERMINOS DE LA MISMA.

Y SIENDO O REPRESENTANDO USTED LA PARTE PERJUDICADA POR LA SENTENCIA, DE LA CUAL PUEDE ESTABLECERSE RECURSO DE APELACION, DIRIJO A USTED ESTA NOTIFICACION, HABIENDO ARCHIVADO EN LOS AUTOS DE ESTE CASO COPIA DE ELLA CON FECHA 14 DE JUNIO DE 2005 .

ADOLFO LUIS GIERBOLINI BORELLI -
BARBOSA #6 COAMO PR 00769

COAMO , PUERTO RICO, A 14 DE JUNIO DE 2005 .

ANGEL S. ESPADA
.....
SECRETARIO

POR: ANA L AVILES TORRES
.....
SECRETARIA AUXILIAR

DAT 704 - NOTIFICACION DE SENTENCIA

**EN EL ESTADO LIBRE ASOCIADO DE PUERTO RICO**
**TRIBUNAL DE PRIMERA INSTANCIA**
**SALA SUPERIOR DE COAMO**

| | | |
|---|---|---|
| Adolfo Luis Gierbolini Borelli<br>SS:581-68-5325 | * | CIVIL NUM.B2CI2005-00919 |
| Peticionario | * | SOBRE: |
| Gina Elizabeth Armstrong Fagot<br>Causante | * | |
| EX PARTE | * | **DECLARATORIA DE HEREDEROS DE Doña Gina Elizabeth Armstrong Fagot** |
| | * | **SS: 582-78-3888** |
| ********** | * | **Fallecida: 7 de marzo de 2005** |

RESOLUCION

**POR CUANTO:** La Parte Peticionaria Adolfo Luis Gierbolini Borelli, presentó ante esta Sala de Coamo del Tribunal de Primera Instancia una solicitud jurada interesando que se decretará la **declaratoria de herederos** ab intestato de Gina Elizabeth Armstrong Fagot, exponiendo en dicha solicitud:

1. Gina Elizabeth Armstrong Fagot, falleció en Ponce, Puerto Rico, el día siete (7) de marzo del dos mil cinco (2005).

2. Que según su leal saber y entender, ella falleció sin dejar testamento de clase alguna, habiéndose hecho las investigaciones y registros correspondientes, y sin que ella le hubiera manifestado haberlo otorgado, o que tuviera deseo o voluntad de otorgarlo.

3. Que actualmente le sobreviven cuatro (4) hijos quienes son sus únicos y universales herederos que con sus domicilios se designan a saber:

   a. **Gina María Gierbolini Armstrong**, mayor de edad, casada con Roberto López Villafañe, propietaria con seguro social número quinientos ochenta y tres guión setenta y cinco guión cero cuatro diez y ocho (583-75-0418), quien nació en Ponce, Puerto Rico el veintiocho (28) de septiembre de mil novecientos sesenta y tres (1963); y vecina de Hato Rey, Puerto Rico.

b. **Fernando Alfredo Gierbolini Armstrong**, mayor de edad, soltero, propietario, con seguro social número quinientos ochenta y cuatro guión ochenta y tres guión sesenta y nueve ochenta y dos (584-83-6982), quien nació en Ponce, Puerto Rico el ventiseis (26) de septiembre de mil novecientos sesenta y cuatro (1964); y vecino de Alpharetta, Georgia de los Estados Unidos de América.

c. **Adolfo Luis Gierbolini Armstrong**, mayor de edad, casado con Yanessa Aguayo Marrero, propietario con seguro social número quinientos ochenta y cuatro guión noventa y tres guión ventinueve noventa y siete (584-93-2997), quien nació en Ponce, Puerto Rico el siete (7) de diciembre de mil novecientos sesenta y seis (1966); y vecino de Dorado, Puerto Rico.

d. **Giovanna Gierbolini Armstrong**, mayor de edad, casada con José M. Hernández, propietaria con seguro social númeron quinientos ochenta y cuatro guión cuarenta y siete ochenta y cinco (584-93-4785), quien nació en Ponce, Puerto Rico el dos (2) de agosto de mil novecientos setenta y tres (1973); y vecina de Coamo, Puerto Rico.

**POR CUANTO:** Como prueba documental en que dicho peticionario se apoya para establecer los hechos que expone en su solicitud jurada, unió a ésta sendas copias, debidamente certificadas:

a. Certificado de Acta de Defunción de Doña Gina Elizabeth Armstrong Fagot.

b. Certificado de Acta de Nacimiento de los cuatro hijos antes mencionados.

c. Certificado Acta de Matrimonio.

d. Certificación Negativa del Tribunal Supremo de Puerto Rico.

**POR CUANTO:** Así han quedado acreditados satisfactoriamente los hechos alegados, y cumplidos los requisitos legales sobre la materia exigidos por el vigente artículo 552, de nuestro Código de Enjuiciamiento Cívil, 1993.

**POR TANTO:** Conforme a la solicitud jurada y a la relacionada prueba documental, se decreta únicos y universales herederos ab intestato de la causante Gina Elizabeth Armstrong Fagot, a sus cuatro (4) hijos antes nombrados: **Gina María Gierbolini Armstrong, Fernando Alfredo Gierbolini Armstrong, Adolfo Luis Gierbolini Armstrong y Giovanna Gierbolini Armstrong y a don Adolfo Luis Gierbolini Borelli en lo que corresponde a su cuota viudal usufructaria.**

Regístrese, y en su día líbrense las copias certificadas que de el se soliciten, previo pago del arancel que proceda.

Dada en Coamo, Puerto Rico a 9 de junio de 2005.

GLORIMEL RIVERA IRIZARRY
JUEZ SUPERIOR

ESTADO LIBRE ASOCIADO DE PUERTO RICO
TRIBUNAL GENERAL DE JUSTICIA
SALA DE COAMO

A05762602 $10.

A 18236676 $2.

# NOTIFICACIÓN DE PODER
(Instrucciones al dorso)

Número Notarial: 13,594 Nombre del notario: Lcda. Melba Annette Rivera Aponte

## I. DATOS SOBRE LA ESCRITURA

- A tenor con lo dispuesto en el Artículo 76 de la Ley Notarial, 4 LPRA 922, Regla 13 (c) Reglamento Tribunal Supremo y las Reglas 60 y 61 del Reglamento Notarial de Puerto Rico y BAJO MI FE, FIRMA Y SELLO certifico que ante mi se otorgó la siguiente escritura de:

TIPO DE PODER: PODER GENERAL

| Número de Escritura: | 17 | Fecha de Otorgamiento: | 28 (Día) | 3 (Mes) | 2011 (Año) |
|---|---|---|---|---|---|

## II. DATOS SOBRE EL PODERDANTE(S) Y EL APODERADO(S)

(Si sólo tuviese un nombre, un solo apellido u otro nombre por el cual sea conocido favor hacerlo constar.) [Para nombres adicionales use el espacio provisto al dorso de este documento.]

PODERDANTE(S)

| Nombre | 2do Nombre | Apellido | 2do Apellido |
|---|---|---|---|
| Fernando | Alfredo | Gierbolini | Armstrong |

| Conocido por: | | Seguro Social | |
|---|---|---|---|
| Circunstancias Personales: | Mayor de edad, soltero, empleado por cuenta propia y vecino de Coamo, Puerto Rico. | | |

| Nombre | 2do Nombre | Apellido | 2do Apellido |
|---|---|---|---|
| Adolfo | Luis | Gierbolini | Armstrong |

| Conocido por: | | Seguro Social | |
|---|---|---|---|
| Circunstancias Personales: | Mayor de edad, casado con Vanessa Aguayo, empleado y vecino de Dorado, Puerto Rico. | | |

APODERADO(S) (Incluyendo sustituto)

| Nombre | 2do Nombre | Apellido | 2do Apellido |
|---|---|---|---|
| Gina | María | Gierbolini | Armstrong |

| Conocido por: | | Seguro Social | |
|---|---|---|---|
| Circunstancias Personales: | Mayor de edad, casada con Roberto López Villafañe y vecina de San Juan, Puerto Rico. | | |

| Nombre | 2do Nombre | Apellido | 2do Apellido |
|---|---|---|---|
| | | | |

| Conocido por: | | Seguro Social | |
|---|---|---|---|
| Circunstancias Personales: | | | |

## III. PROTOCOLIZACIÓN DEL PODER AUTORIZADO FUERA DE PUERTO RICO

Lugar en que se otorgó: Fecha del Poder: día mes año

Notario del exterior que legitimó el Instrumento:

Funcionario del exterior legalizó la firma del notario y fecha:

## IV. DATOS PODER AFECTADO O ESCRITURA OTORGADA POR MANDATARIO VERBAL

Nombre del mandatario verbal:

Núm. Escritura anterior afectada: Fecha escritura anterior afectada : día mes año

Notario ante quien se autorizó la escritura: Tomo y folio del poder afectado:

Entrado al computador
Hora: 1135
Bajo el número: 1342-145
El día 04 ABR 2011 de
Por:
Registro de Poderes

1342-145

Lcda. Melba A. Rivera Aponte
LCDA. MELBA A. RIVERA APONTE
Coamo, Puerto Rico 00769
(787) 803-3173
Dirección Postal
Teléfono

LCDA. MELBA ANNETTE RIVERA APONTE
ABOGADA NOTARIO

SELLO DEL NOTARIO

NOTAS MARGINALES

CERTIFICO que en el mismo día, mes y año de su otorgamiento expedí primera copia certificada de la presente Escritura a favor de Doña Gina María Gierbolini Armstrong, parte interesada. DOY FE.-----

NOTARIA PÚBLICA

----------**NUMERO: DIECISIETE (17)** ----------

----------**PODER GENERAL**----------

---En la Ciudad de Coamo, Puerto Rico, a los veintiocho (28) días del mes de marzo del año dos mil once (2011).----------

----------**ANTE MI**----------

---**MELBA ANNETTE RIVERA APONTE**, Abogada y Notaria Pública con residencia, vecindad y estudio abierto la ciudad de Coamo, Puerto Rico.----------

----------**COMPARECEN** ----------

---**DE LA PRIMERA PARTE: DON FERNANDO ALFREDO GIERBOLINI ARMSTRONG,** mayor de edad, soltero, empleado por cuenta propia y vecino de Coamo, Puerto Rico; **DON ADOLFO LUIS GIERBOLINI ARMSTRONG**, mayor de edad, casado con Vanessa Aguayo, empleado y vecino de Dorado, Puerto Rico y **DOÑA GIOVANNA GIERBOLINI ARMSTRONG**, mayor de edad, soltera, empleada y vecina de Coamo, Puerto Rico. (PODERDANTES).----------

---**DE LA SEGUNDA PARTE: DOÑA GINA MARÍA GIERBOLINI ARMSTRONG,** mayor de edad, casada con Roberto Julio López Villafañe, ama de casa y vecina de San Juan, Puerto Rico. (APODERADA) ----------

--- Yo la Notaria, DOY FE de conocer personalmente a los comparecientes y por sus dichos me constan sus

circunstancias personales, quienes me asegura tener, y a mi juicio tienen, la capacidad legal necesaria paral presente otorgamiento y en tal virtud libre y voluntariamente: ---------

----------**EXPONEN**----------

---**PRIMERO:** Que por el presente **LOS PODERDANTES DAN Y CONFIEREN PODER GENERAL** tan amplio y bastante como en derecho se requiera y fuere menester a favor de su hermana **GINA MARÍA GIERBOLINI ARMSTRONG**, mayor de edad, casada con Roberto Julio López Villafañe y vecina de San Juan, Puerto Rico para que a su nombre ejecute los siguientes actos:----------

----------**SOBRE ADMINISTRACION:**----------

---**[A]** Para que administre los bienes de los poderdantes, recaude sus rentas y productos sobre cuanto se le deba, dando recibo y cartas de pago y cancelando hipoteca o embargos a que se hallaren sujetos los bienes de sus deudores o fiadores, pudiendo admitir toda clase de bienes en pago de deudas por el precio que creyere conveniente.-----

---**[B]** Exija rendición de cuentas a todos los obligados ello por cualquier concepto.----------

---**[C]** Libre, acepte, endose, y negocie letras de cambio, cheques y pagarés a su favor o a su orden, los cobre y los proteste.----------

---**[D]** Asista a las juntas o reuniones de sociedades, corporaciones, o de cualquier otra clase a que tuviere derecho a asistir los poderdantes, y haga uso en ellas de la palabra, del voto o de cualquier otro derecho que le corresponda en la forma en que creyere conveniente.---------

---**[E]** Para que represente a los poderdantes ante las distintas oficinas o agencias o instrumentalidades del Estado Libre Asociado de Puerto Rico.----------

---**[F]** Para que haga las reclamaciones que tenga a bien hacer los poderdantes, quedando facultado para instar acciones judiciales a nombre de los poderdantes y a defender a los poderdantes en cualquier acción judicial.----------

----------**SOBRE PAGOS:** ----------

---Para que pague contribuciones, impuestos o cualquier otra carga a que se hallaren afectos los bienes de los poderdantes y cualquier cantidad que él adeudare.----------

----------**SOBRE VENTAS Y PERMUTAS:** ----------

---**[A]** Para que venda absolutamente o con pacto de retro, o con cualquier otra condición, todos o cualesquiera de los bienes o propiedades de los poderdantes, por el precio que considere más ventajoso, que cobrará al contado o a plazos, pudiendo además aceptar pagarés, bonos, u otras obligaciones de pago, y con las condiciones que estime oportuna, pudiendo retrotraer dichos bienes si fuere necesario, entendiéndose por bienes o propiedades para los efectos de este poder, todos los que en derecho puedan entenderse como tales, incluyendo créditos, derechos, privilegios o cualesquiera otros.----------

---**[B]** Para que permute cualesquiera fincas, valores u otra clase de propiedades por otras de igual o distinta naturaleza por el precio que estipule, cobrando o abonando la diferencia en valores si la hubiere.---------- ----------

---**[C]** Para que represente a los poderdantes en cualquier

institución pública o privada y suscriba los documentos que sean necesarios ya sea para realizar traspasos o cualquier trámite que haya que realizar.----------

----------**SOBRE COMPRAS:**----------

---Para que compre o adquiera para los poderdantes cualesquiera clase de bienes, derechos, privilegios, bien en pública subasta o privadamente, por el precio y con las condiciones que estime convenientes.----------

----------**SOBRE ESCRITURAS:** ----------

---Para que al hacer uso de las facultades que se le confiere en este poder, otorgue escrituras públicas si fuere menester en la práctica de sus gestiones.---------- ----------

----------**SOBRE PLEITOS:** ----------

---Para que represente a los poderdantes en todo juicio y expediente civil, gubernativo y de jurisdicción voluntaria, pendiente o que se promueva ante todos los tribunales del Estado Libre Asociado de Puerto Rico y de los Estados Unidos de América y sus agencias estatal o federal, agencia o instrumentalidad gubernamental, corporación pública, u oficina administrativa de cualquier índole, gestionando como demandante o defendiéndose como demandado, o en cualquier otra forma, transigiendo cualquier pleito o acción en la forma que crea más conveniente, designando abogado cuando proceda, conviniendo y pagando sus honorarios e inste los procedimientos, embargos y anotaciones de demanda o cualquier otro recurso que crea conveniente y necesario para la mejor defensa de los intereses de los poderdantes.----------

----------**SOBRE HERENCIAS:**----------

---**[A]** Para que represente a los poderdantes en todo procedimiento judicial o extrajudicial referente a herencias, testadas o intestadas, en que tenga interés los poderdantes, apruebe inventario, tasaciones, cuentas de partición, planes de adjudicación, y demás operaciones relacionadas con las testamentarias en que tenga interés de los poderdantes. Para que acepte la herencia que le corresponda o a que tenga derecho los poderdantes y para que otorgue cuantas escrituras sean necesarias, inclusive escrituras de aceptación, partición, y adjudicación de bienes en aquellas herencias testadas o intestadas en que los poderdantes tenga participación o interés.----------

---**[B]** Para que cobre y reciba a favor de los poderdantes cualesquiera rentas, dividendos en acciones, pagarés, cheques, giros, y además cantidades que le corresponda a los poderdantes referentes a herencias y para que le pague la parte proporcional de las deudas que pueda corresponderle pagar a los poderdantes referentes a dicha herencia, tomando dinero a préstamo si para ello si fuere necesario.----

---**[C]** Para que pague cualesquiera contribuciones que le corresponda pagar a los poderdantes referente a herencias o a participación que le corresponda en dichas herencias, tomando dinero a préstamo si para ello fuere necesario.------

---**[D]** Para que venda a nombre de los poderdantes cualesquiera acciones, derechos o propiedades que le corresponda en cualquier herencia, testada o intestada, remitiendo a los poderdantes el producto neto de dicha venta.----------

----------**ADVERTENCIAS**----------

---**Yo**, la Notario, en cumplimiento de la ley, les hice las advertencias legales pertinentes. En especial, que: ----------

---**A.** La apoderada, debe regirse por las instrucciones que los poderdantes dispusieron en el Poder.----------

----**B.** La apoderada no puede traspasar los límites de esas instrucciones otorgadas por los poderdantes.----------

---**C.** La apoderada responde por dolo y por culpa en caso de que estos existan.----------

---**D.** El significado y efectos legales de los actos consumados que han sido expresados en la presente Escritura y he preguntado a cada uno de los comparecientes si tenían preguntas adicionales relativas al instrumento, al acto jurídico y sobre las consecuencias directas o indirectas del mismo.----------

---**E.** La necesidad de que ambas partes comprendieran el significado y la naturaleza legal del acto que están realizando.----------

---**F.** Que el presente Poder General habrá de perder su eficacia legal cuando los poderdantes así lo manifiesten al apoderado y se le advierte a los poderdantes sobre la necesidad de realizar la cancelación de este Poder General mediante otorgamiento de escritura ante Notario Público.-----

---**G.** La obligación fiduciaria que tiene la apoderada de actuar de forma prudente y razonable en la realización de los actos que le son permitidos por este Poder General y de su obligación de proteger los mejores intereses de los poderdantes. ----------

---**H.** El requisito de inscribir el presente Poder General en el Registro de Poderes de la Oficina del Inspector de Notarías del Tribunal Supremo de Puerto Rico.----------

---**I.** De la posible necesidad de que copias certificadas de este Poder General sean presentadas en el Registro de la Propiedad u otras oficinas, dependencias o departamentos públicos o privados cuando así fueren requeridos.----------

----------**OTORGAMIENTO Y LECTURA**----------

---Así lo dicen y otorgan los comparecientes ante mí, luego de haber renunciado al derecho que les hice saber tenían para requerir la presencia de testigos instrumentales. ----------

---Leída en alta voz esta escritura a los otorgante por mí, la Notaria, y también leída personalmente por ellos, se ratifican en la misma, fijan sus iniciales al margen izquierdo de todos y cada uno de los folios y firma al final del último, ante mí, la Notaria, de que todo lo que consigno en el presente documento DOY FE.----------

Certifico que la presente es copia fiel y exacta del original de la escritura que bajo el número Diecisiete (17) obra en el protocolo de la Notaria que suscribe, que están adheridos y debidamente cancelados los correspondientes sellos de Rentas Internas y del Impuesto Notarial del Colegio de Abogados de Puerto Rico, que están además, debidamente estampadas las iniciales de los otorgantes al margen de los siete (7) folios de que consta la escritura matriz, y sus firmas, al final del documento, así como la rúbrica, signo y sello al final del documento. En fe de lo cual, y para entregar a Gina María Gierbolini Armstrong, parte interesada, expido la presente Copia Certificada Número Uno (1), que firmo, rubrico, signo y sello en la ciudad de Coamo, Puerto Rico, hoy día veintiocho (28) de marzo del año dos mil once (2011), dejando nota de saca al margen de la escritura matriz.----------

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TRIBUNAL SUPREMO DE PUERTO RICO

Inscrito este documento en el Registro de Poderes a mi cargo bajo el número 343-145 folio 145 tomo 1343 en San Juan, Puerto Rico, el día 4 de Abril de 2011 a las 11:35 Am

San Juan, Puerto Rico, 4 de Abril de 2011

CERTIFICO:

DIRECTORA DE INSPECCION DE NOTARIAS

Por:

Oficial Autorizado

ESTADO LIBRE ASOCIADO DE PUERTO RICO
TRIBUNAL SUPREMO
REGISTRO DE PODERES Y TESTAMENTOS

CANCELADO

Estado Libre Asociado de Puerto Rico
Tribunal Supremo
Oficina de Inspección de Notarías
P O Box 190860
San Juan, PR 00919-0860
Tel. (787) 763-8816
Fax. (787) 758-6761

**TRIBUNAL SUPREMO DE PUERTO RICO**

Inscrito este documento en el Registro de Poderes a mi cargo bajo el número **1343-145** folio **145**, tomo **1343**, en San Juan, Puerto Rico, el día **4** de **abril** de **2011**, a las **11:35 A.M.**

**CERTIFICO ADEMÁS** que el poder a que se refiere la inscripción fue otorgado mediante el Instrumento Público Número **17** de fecha **28** de **marzo** de **2011**, ante el(la) notario(a) **MELBA ANNETTE RIVERA APONTE** y no aparece ninguna otra inscripción indicativa de que haya sido revocado, modificado, ampliado o anulado por Tribunal competente en forma alguna con posterioridad a la fecha de su otorgamiento, salvo que de la propia escritura surja fecha de expiración.

**En San Juan, Puerto Rico, hoy día 11 de abril de 2016.**

**CERTIFICO:**

DIRECTOR
OFICINA DE INSPECCIÓN
DE NOTARÍAS

Por: _____

Oficial Autorizado

$5 $5

D11079675

ESTADO LIBRE ASOCIADO DE PUERTO RICO
MUNICIPIO AUTÓNOMO DE PUERTO RICO
LEGISLATURA MUNICIPAL

**ORDENANZA NÚMERO: 23** **SERIE 2015-2016**

**PARA AUTORIZAR AL HON. JUAN CARLOS GARCÍA PADILLA A COMPARECER ANTE NOTARIO PÚBLICO A OTORGAR ESCRITURA PARA ADQUIRIR DE LA SUCESIÓN GINA ELIZABETH ARMSTRONG FAGOT LA PROPIEDAD EN LA CALLE FLORENCIO SANTIAGO #26 EN EL MUNICIPIO DE COAMO, Y PARA OTROS FINES.**

**POR CUANTO:** La Sucesión de Gina Elizabeth Armstrong Fagot es dueña del usufructo del terreno y de la estructura, localizada en la Calle Florencio Santiago #26 del Municipio de Coamo, la cual se describe a continuación:

-----**"URBANA: solar sito en la Calle Dr. Barbosa esquina Ermita, hoy esquina Florencio Santiago de esta población, enclavado en la finca numero mil cuarenta y nueve (1049) de la propiedad del municipio de Coamo, Puerto Rico, con un área superficial de CUATROCIENTOS CUARENTA Y CINCO PUNTO CINCUENTA Y CUATRO METROS CUADRADOS (445.54MC) en lindes por el OESTE: en dieciocho punto ochenta y cinco metros (18.85m) que es el frente de la referida calle; por el SUR: en veintitrés punto cinco metros (23.05m) en limites con colar de la calle Ermita, hoy calle Florencio Santiago por el ESTE: en diecinueve punto veintitrés metros (19.23m) en lindes con Sucesión Borelli que es el fondo del solar y al NORTE: en veintitrés punto tres metros (23.03m) con solar de la casa de Sucesión Borelli.**

-----No consta inscrita en el Registro de la Propiedad de Barranquitas

-----Catastro Número 345-033-046-09-001.

**POR CUANTO:** La propiedad se utilizará para el desarrollo de un proyecto de viviendas, razón por la cual el Alcalde ha solicitado de esta Legislatura Municipal la autorización para adquirir esta propiedad.

**POR CUANTO:** Mediante carta de fecha 3 de febrero de 2016, la Sucesión de Gina Elizabeth Armstrong Fagot aceptó vender al Municipio, por la cantidad de $55,000.00, la propiedad ubicada en la Calle Florencio Santiago #26 en Coamo, Puerto Rico.

**POR CUANTO:** La Legislatura Municipal entiende que la propiedad que se ofrece vender al Municipio de Coamo cumple con todos los requisitos, entendiendo esta Legislatura Municipal que cumpliendo con sus responsabilidades procede que se accede a la solicitud hecha por el ejecutivo.

**POR TANTO:** **ORDÉNESE POR ESTA LEGISLATURA MUNICIPAL DE COAMO LO SIGUIENTE:**

**SECCIÓN 1RA:** Se autoriza al Alcalde a comparecer ante Notario Público a otorgar escritura de segregación y compraventa de la propiedad de Sucesión de Gina Elizabeth Armstrong Fagot por la cantidad de $55,000.00, según aceptado el 3 de febrero de 2016.

**SECCIÓN 2DA:** Esta ordenanza entrará en vigor tan pronto sea firmada en todas sus partes.

**SECCIÓN 3RA:** Copia de esta ordenanza será enviada al Registro de la Propiedad, Sección de Barranquitas, al Departamento de Finanzas, a la Oficina de la Secretaria Municipal, a la Oficina de Planificación y Ordenamiento Territorial, a la Sucesión de Gina Elizabeth Armstrong Fagot.

**APROBADA POR LA LEGISLATURA MUNICIPAL DE COAMO, PUERTO RICO, HOY 2 DE MARZO DE 2016.**

**HON. DAMARIS L. FIGUEROA SANTIAGO**
Presidenta, Legislatura Municipal

**SRA. EMERILDA TORRES TORRES**
Secretaria, Legislatura Municipal

**APROBADA POR EL ALCALDE DEL MUNICIPIO AUTÓNOMO DE COAMO, PUERTO RICO HOY 7 DE MARZO DE 2016.**

**HON. JUAN CARLOS GARCÍA PADILLA**
Alcalde

ESTADO LIBRE ASOCIADO DE PUERTO RICO
MUNICIPIO AUTÓNOMO DE COAMO
LEGISLATURA MUNICIPAL

# CERTIFICACIÓN

Yo, Emerilda Torres Torres, Secretaria de la Legislatura Municipal del Municipio Autónomo de Coamo, Puerto Rico, por la presente certifico: que la que antecede es una copia fiel y exacta de la **ORDENANZA NÚMERO 23, SERIE 2015-2016**, adoptada por la Legislatura Municipal del Municipio Autónomo de Coamo, Puerto Rico, en Sesión Ordinaria celebrada el día 2 de marzo de 2016, Intitulada:

**PARA AUTORIZAR AL HON. JUAN CARLOS GARCÍA PADILLA A COMPARECER ANTE NOTARIO PÚBLICO A OTORGAR ESCRITURA PARA ADQUIRIR DE LA SUCESIÓN GINA ELIZABETH ARMSTRONG FAGOT LA PROPIEDAD EN LA CALLE FLORENCIO SANTIAGO #26 EN EL MUNICIPIO DE COAMO, Y PARA OTROS FINES.**

Además, que la misma fue aprobada por los votos afirmativos de los siguientes Legisladores Municipales presentes en dicha reunión:

1. Hon. Damaris L. Figueroa Santiago
2. Hon. Teresa Santiago Torres
3. Hon. Francisco Cruz Burgos
4. Hon. Lourdes L. Arce Jiménez
5. Hon. Carmen L. Colón Padilla
6. Hon. Luis R. Torres Borges
7. Hon. Bernardo Vázquez Santos
8. Hon. Gabriel Franco Marrero
9. Hon. Aitza L. Martínez Martínez
10. Hon. Carmen J. Colón Colón
11. Hon. Edwin Echevarría Ortiz
12. Hon. Ida E. Zayas Colón
13. Hon. Miguel A. Dávila Pérez
14. Hon. Rolando Cartagena Ramos

Ausente

1. Hon. Noel García Cancel
2. Hon. Herenio Correa Rodríguez

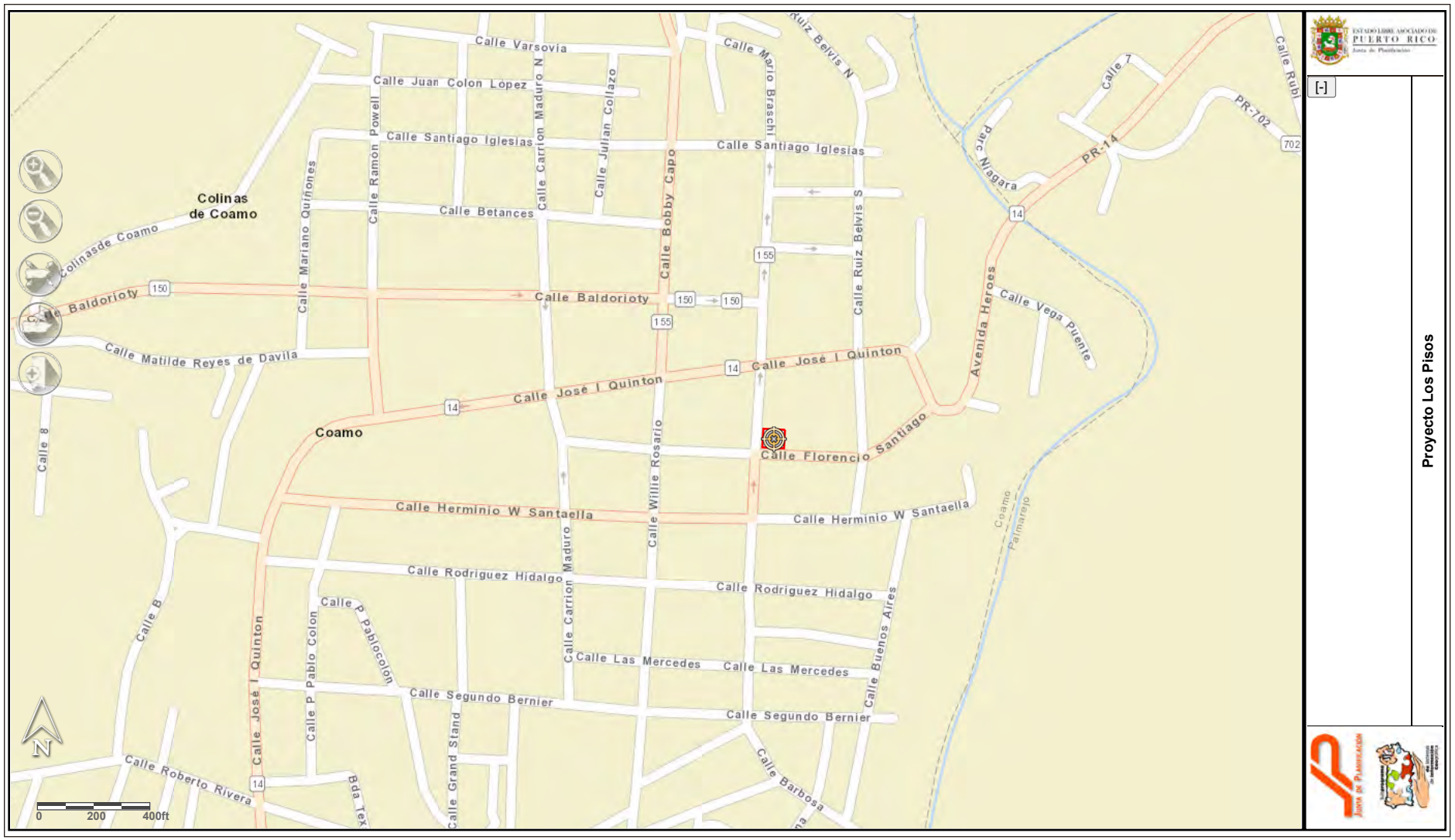
**PARA QUE ASÍ CONSTE** y para enviar copia certificada de la misma a las agencias de gobierno e instrumentalidades concernidas para su conocimiento y acción correspondiente, expido la presente que firmo y estampo el **SELLO OFICIAL** de este **MUNICIPIO AUTÓNOMO DE COAMO**, Puerto Rico, el 3 de marzo de 2016.

Emerilda Torres Torres
Secretaria

SELLO OFICIAL

## Appendix C – Maps

- Location Map
- Topographic Quadrangle
- Puerto Rico Advisory Base Flood Elevation Data Review
- Landslides Susceptibility Map
- Land Classification and Zoning Map


Calle Varsovia
Calle Juan Colon Lopez
Calle Santiago Iglesias
Calle Betances
Calle Baldorioty
Calle Matilde Reyes de Davila
Calle José I Quinton
Calle Florencio Santiago
Calle Herminio W Santaella
Calle Rodriguez Hidalgo
Calle Las Mercedes
Calle Segundo Bernier
Calle Roberto Rivera
Colinas de Coamo
Coamo
Calle Mariano Quiñones
Calle Ramón Powell
Calle Carrion Maduro N
Calle Julian Collazo
Calle Bobby Capo
Calle Mario Braschi
Calle Ruiz Belvis N
Calle Ruiz Belvis S
Calle Willie Rosario
Calle Carrion Maduro
Calle P Pablocolon
Calle P Pablo Colon
Calle Grand Stand
Calle Buenos Aires
Calle Barbosa
Avenida Heroes
Calle Vega Puente
Parc Niagara
Calle 7
Calle Rubi
PR-14
PR-702
Coamo Palmarejo
Calle 8
Calle B
Bda Tex
150
155
14
702
N
0 200 400ft
[-]
Proyecto Los Pisos

Los Pisos

26 Florencio Santiago

Coamo, PR 00769

Inquiry Number: 7837151.4

December 02, 2024

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

12/02/24

**Site Name:**

Los Pisos
26 Florencio Santiago
Coamo, PR 00769
EDR Inquiry # 7837151.4

**Client Name:**

Sea Horse Wastewater Services, CSP.
PO Box 6697
Mayaguez, PR 00681
Contact: Yancarlo

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Sea Horse Wastewater Services, CSP. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

***Search Results:***

**P.O.#** NA

**Project:** ESA Phase I Los Pisos

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 18.079385 18° 4' 46" North |
| **Longitude:** | -66.35668 -66° 21' 24" West |
| **UTM Zone:** | Zone 19 North |
| **UTM X Meters:** | 779783.99 |
| **UTM Y Meters:** | 2000972.29 |
| **Elevation:** | 410.13' above sea level |

**Maps Provided:**

2018
2013
1972
1960
1952
1947
1945, 1946

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

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## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2018 Source Sheets

Coamo
2018
7.5-minute, 24000

Rio Descalabrado
2018
7.5-minute, 24000

### 2013 Source Sheets

Coamo
2013
7.5-minute, 24000

Rio Descalabrado
2013
7.5-minute, 24000

### 1972 Source Sheets

Coamo
1972
7.5-minute, 20000
Aerial Photo Revised 1968

Rio Descalabrado
1972
7.5-minute, 20000
Aerial Photo Revised 1967

### 1960 Source Sheets

Rio Descalabrado
1960
7.5-minute, 20000
Aerial Photo Revised 1941

Coamo
1960
7.5-minute, 20000
Aerial Photo Revised 1941

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1952 Source Sheets

Coamo
1952
7.5-minute, 30000
Aerial Photo Revised 1941

Rio Descalabrado
1952
7.5-minute, 30000
Aerial Photo Revised 1941

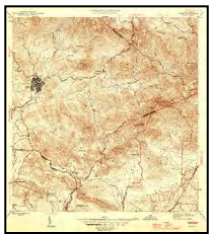
### 1947 Source Sheets

Coamo SO
1947
7.5-minute, 10000

Coamo NO
1947
7.5-minute, 10000

### 1945, 1946 Source Sheets

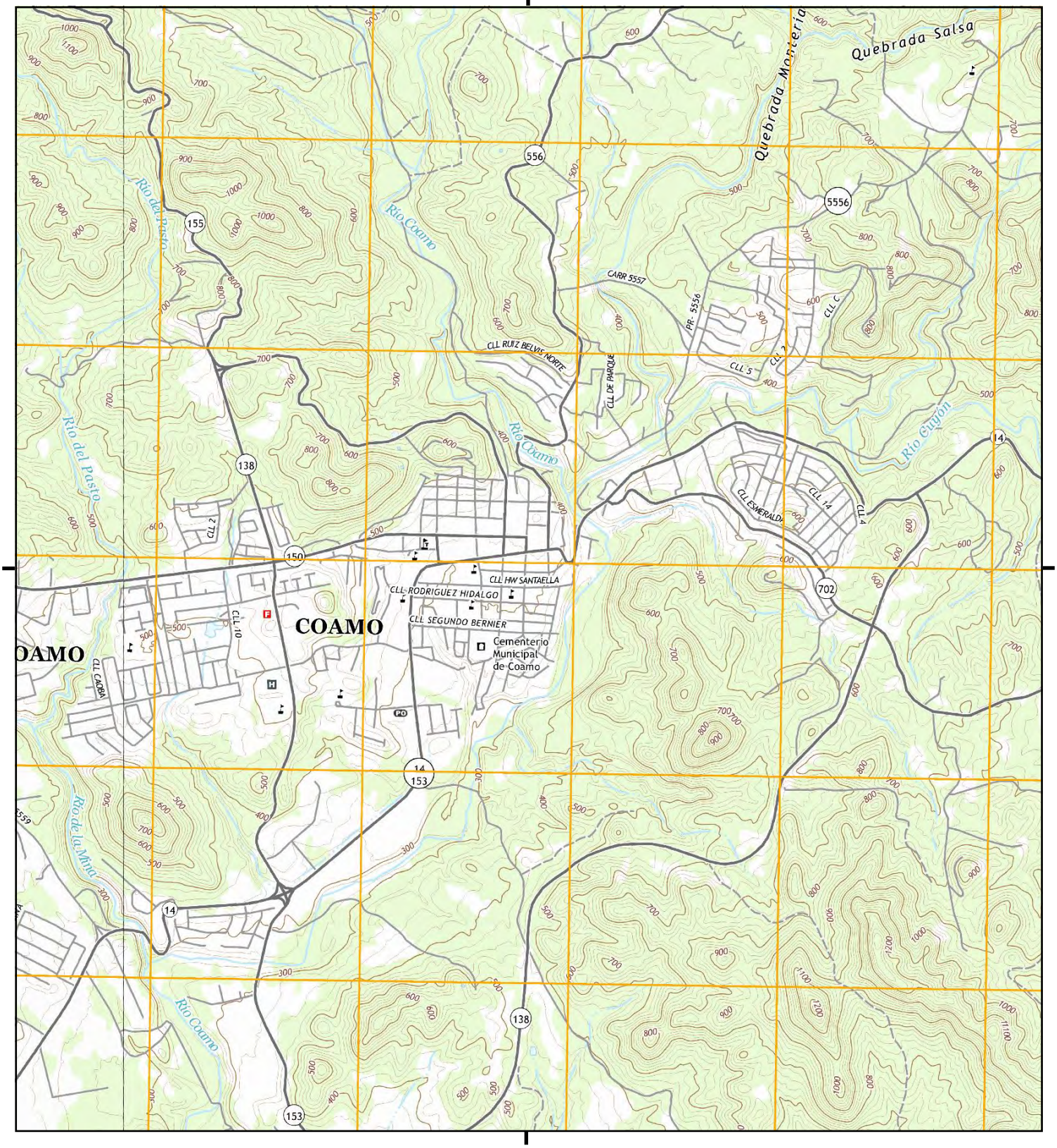
Rio Descalabrado
1945
7.5-minute, 30000



Coamo
1946
7.5-minute, 30000

# Historical Topo Map

2018




This report includes information from the following map sheet(s).

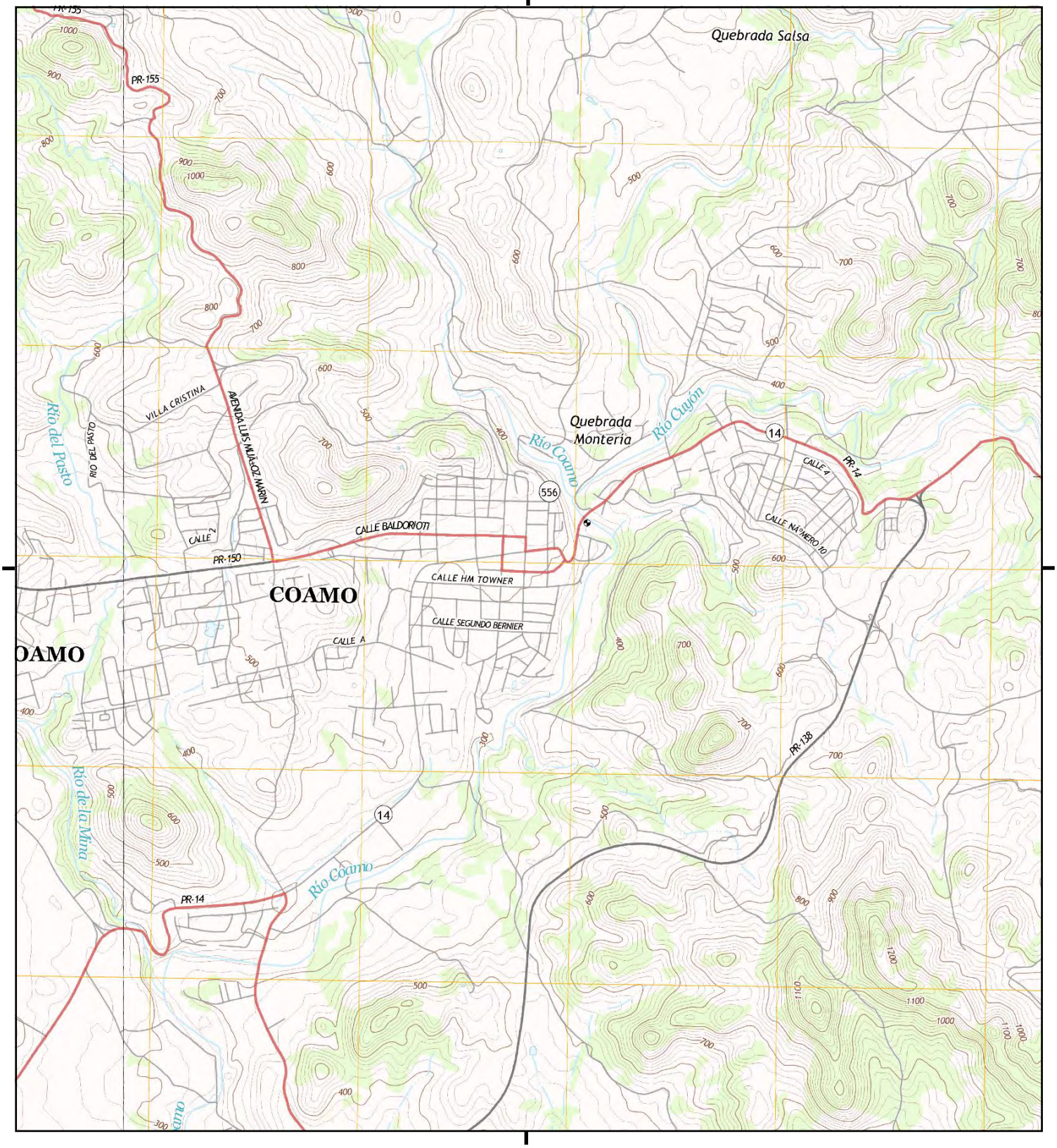
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Coamo, 2018, 7.5-minute
W, Rio Descalabrado, 2018, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

N




This report includes information from the following map sheet(s).

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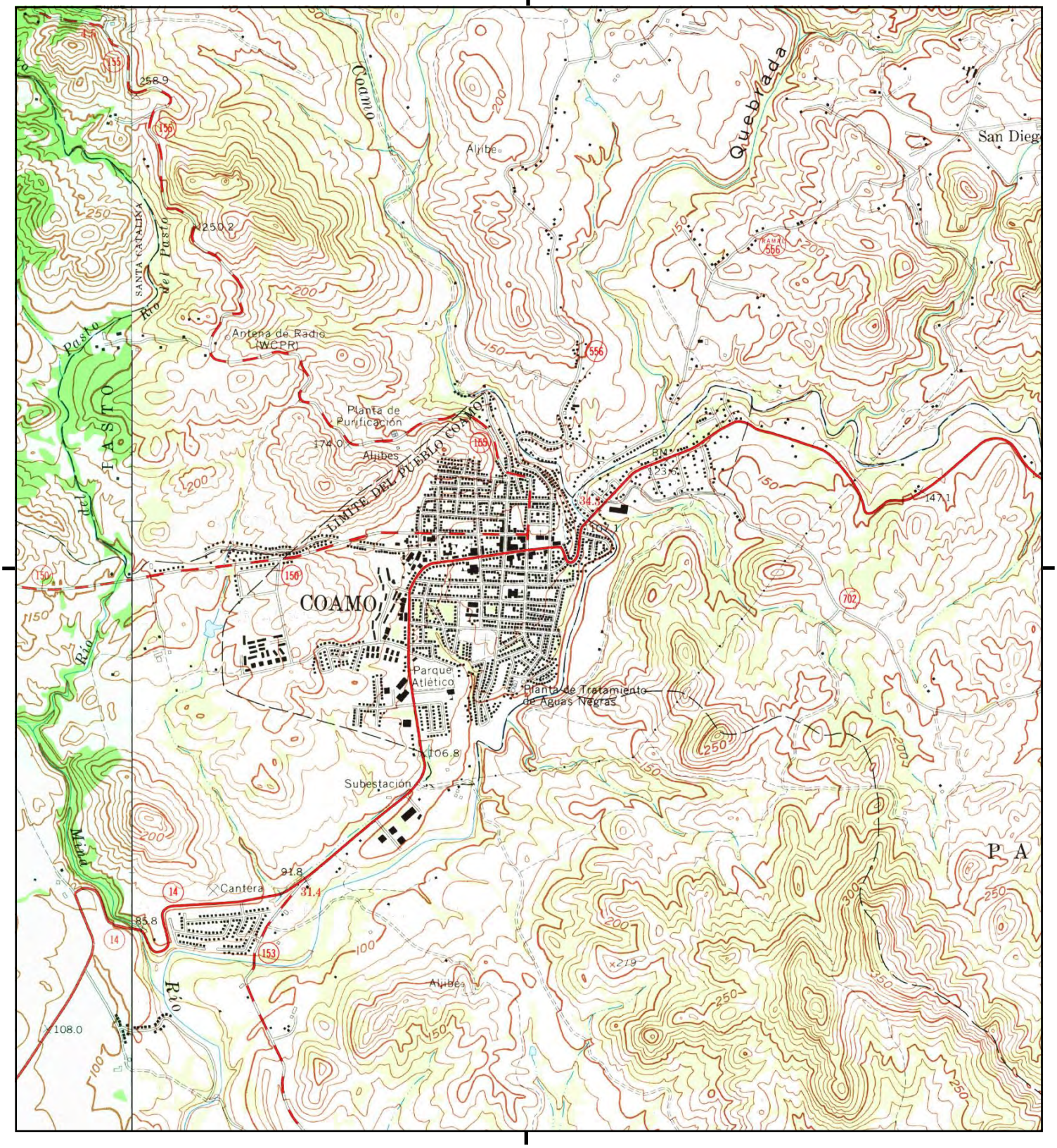
NW N NE
W E
SW S SE

TP, Coamo, 2013, 7.5-minute
W, Rio Descalabrado, 2013, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

N




This report includes information from the following map sheet(s).

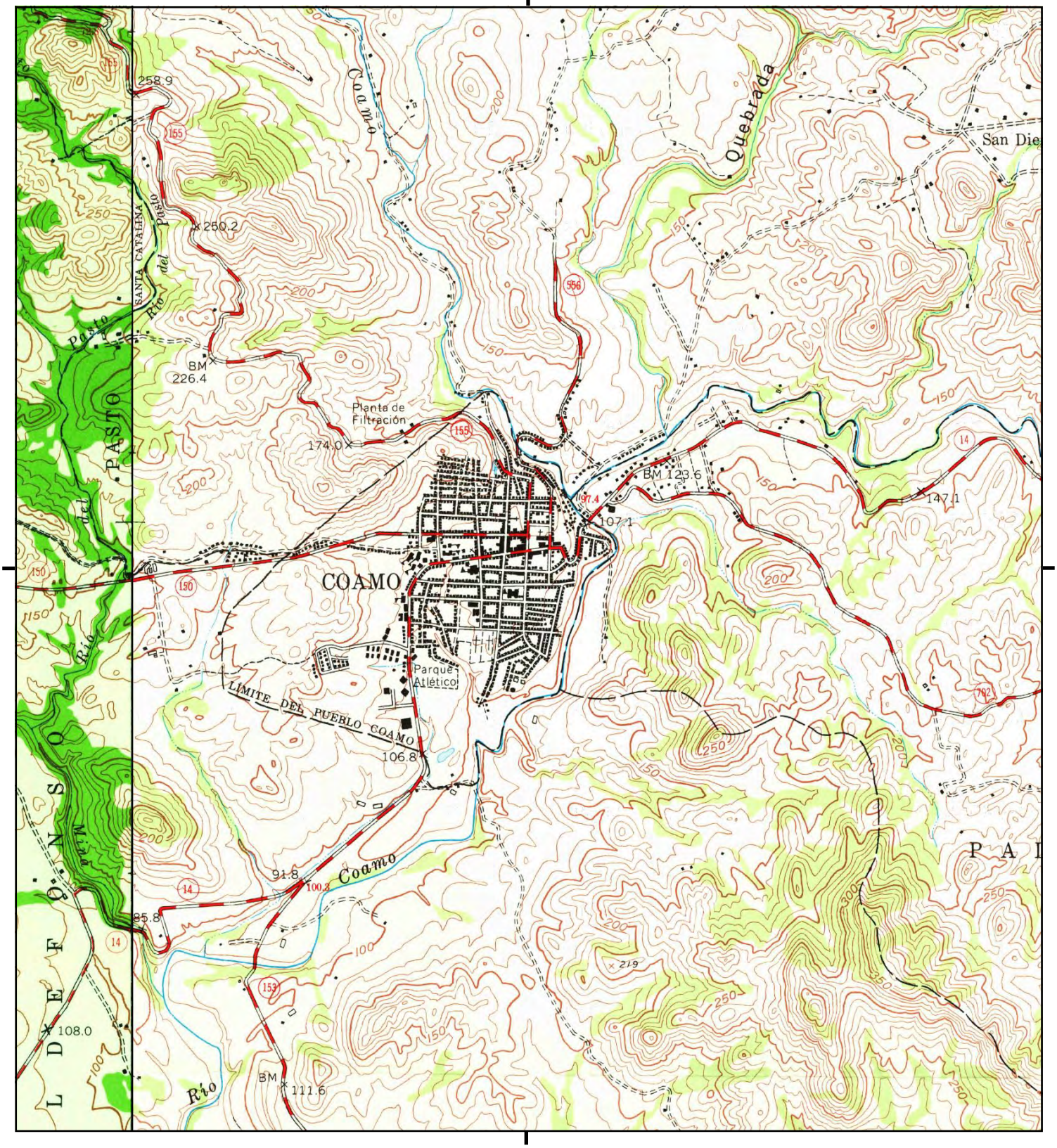
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Coamo, 1972, 7.5-minute
W, Rio Descalabrado, 1972, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

N




This report includes information from the following map sheet(s).

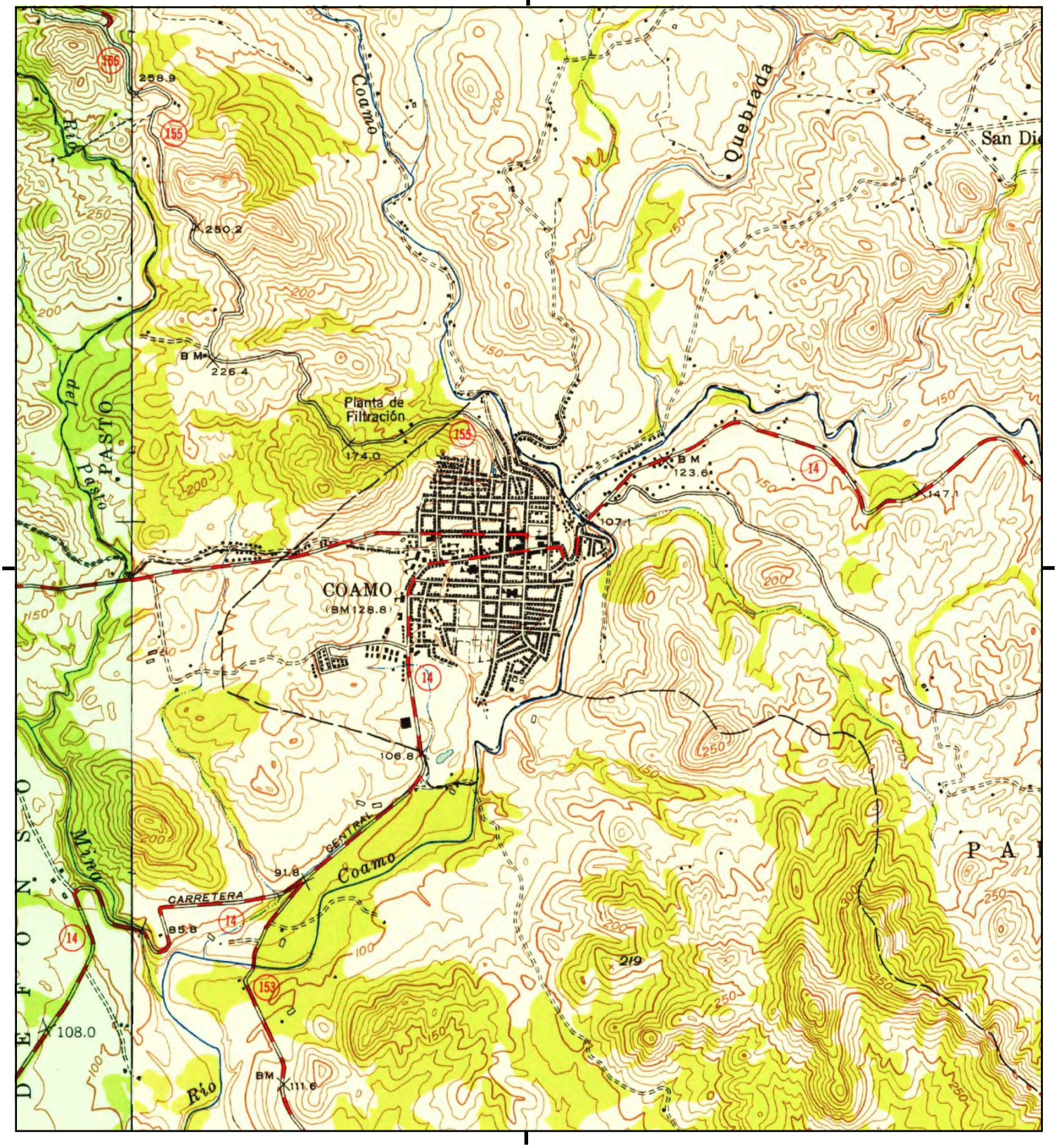
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Coamo, 1960, 7.5-minute
W, Rio Descalabrado, 1960, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

N




This report includes information from the following map sheet(s).

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W E
SW S SE

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W, Rio Descalabrado, 1952, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

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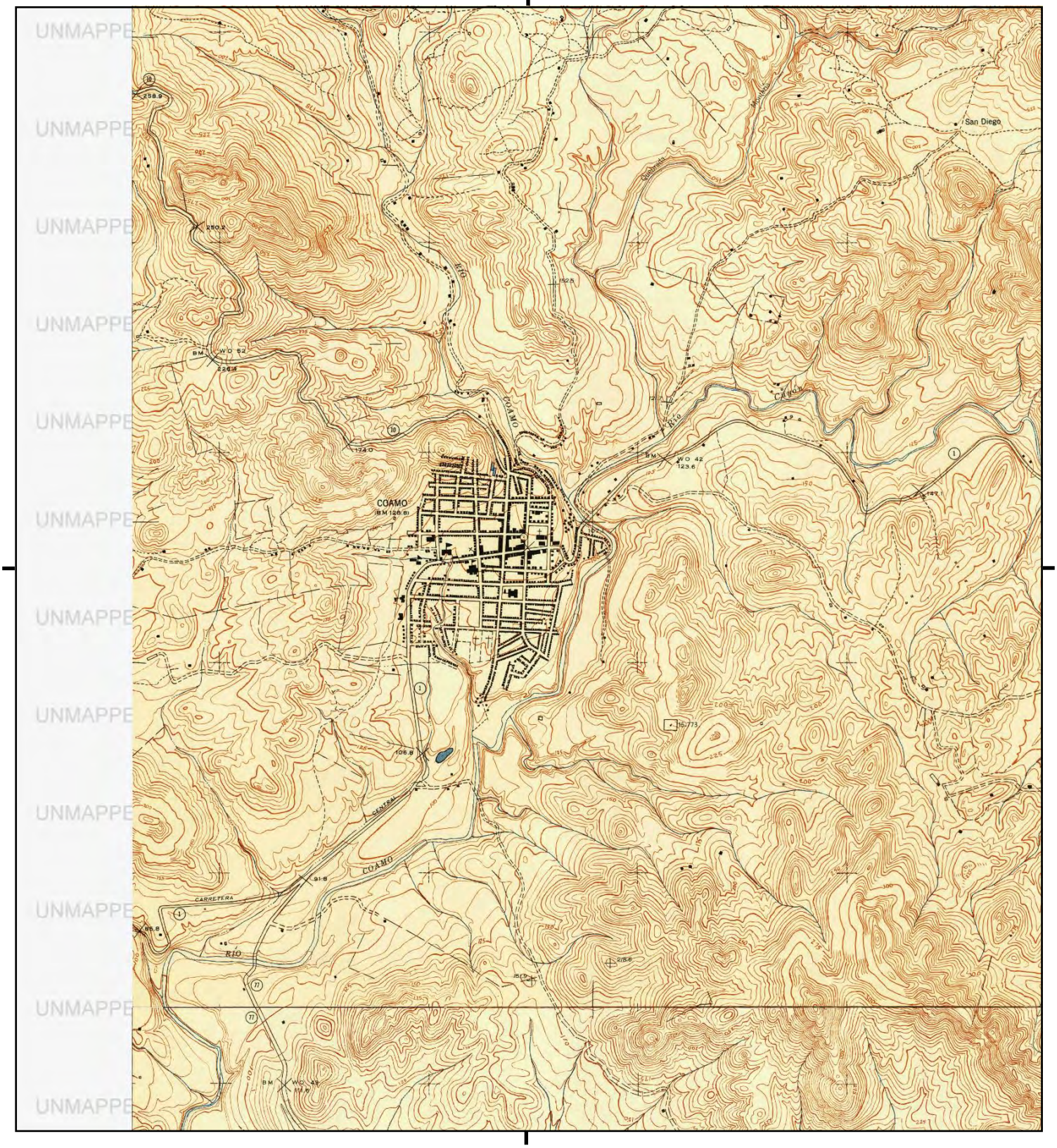


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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Coamo NO, 1947, 7.5-minute
S, Coamo SO, 1947, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

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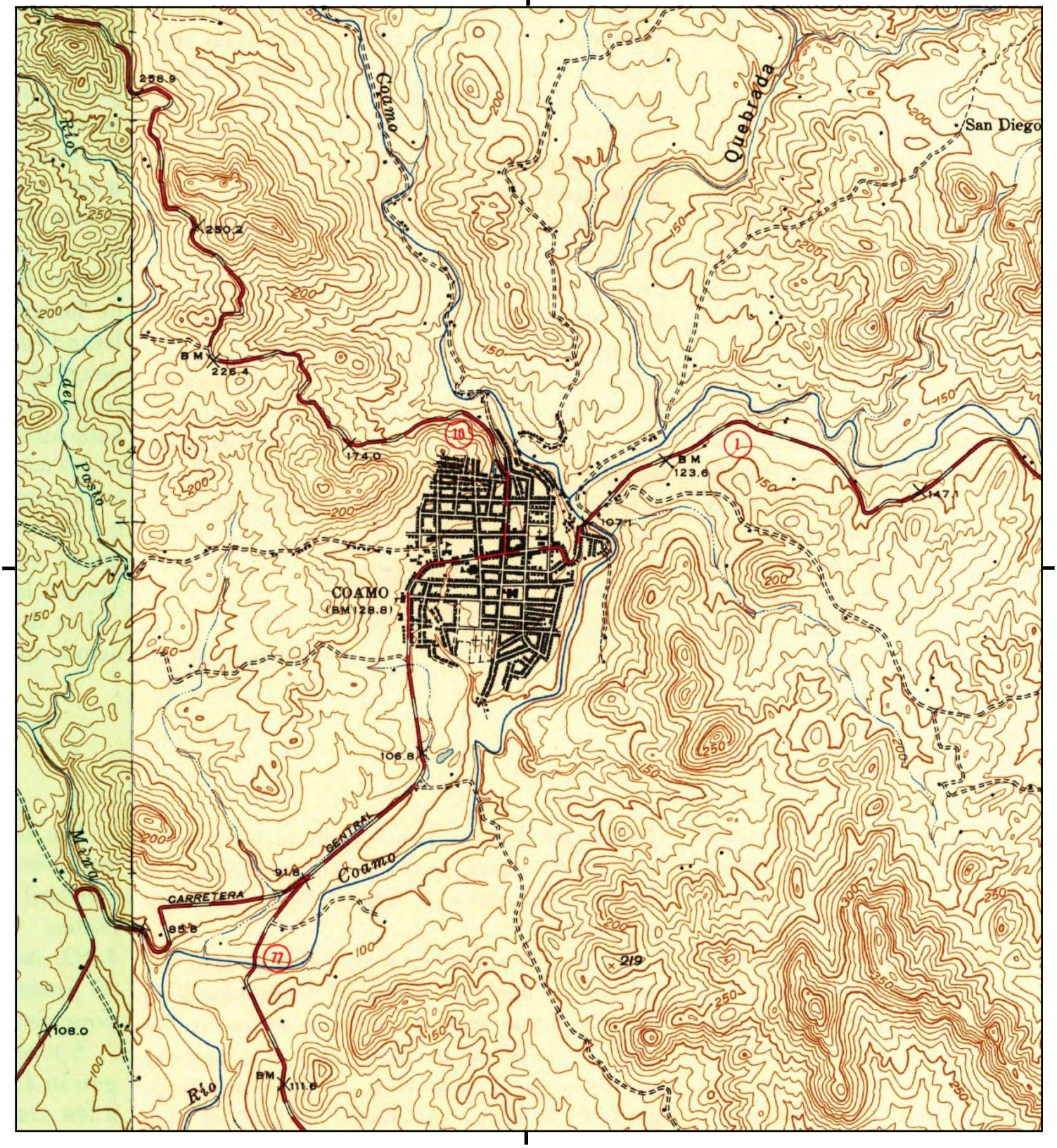


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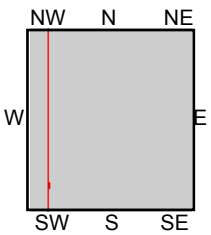


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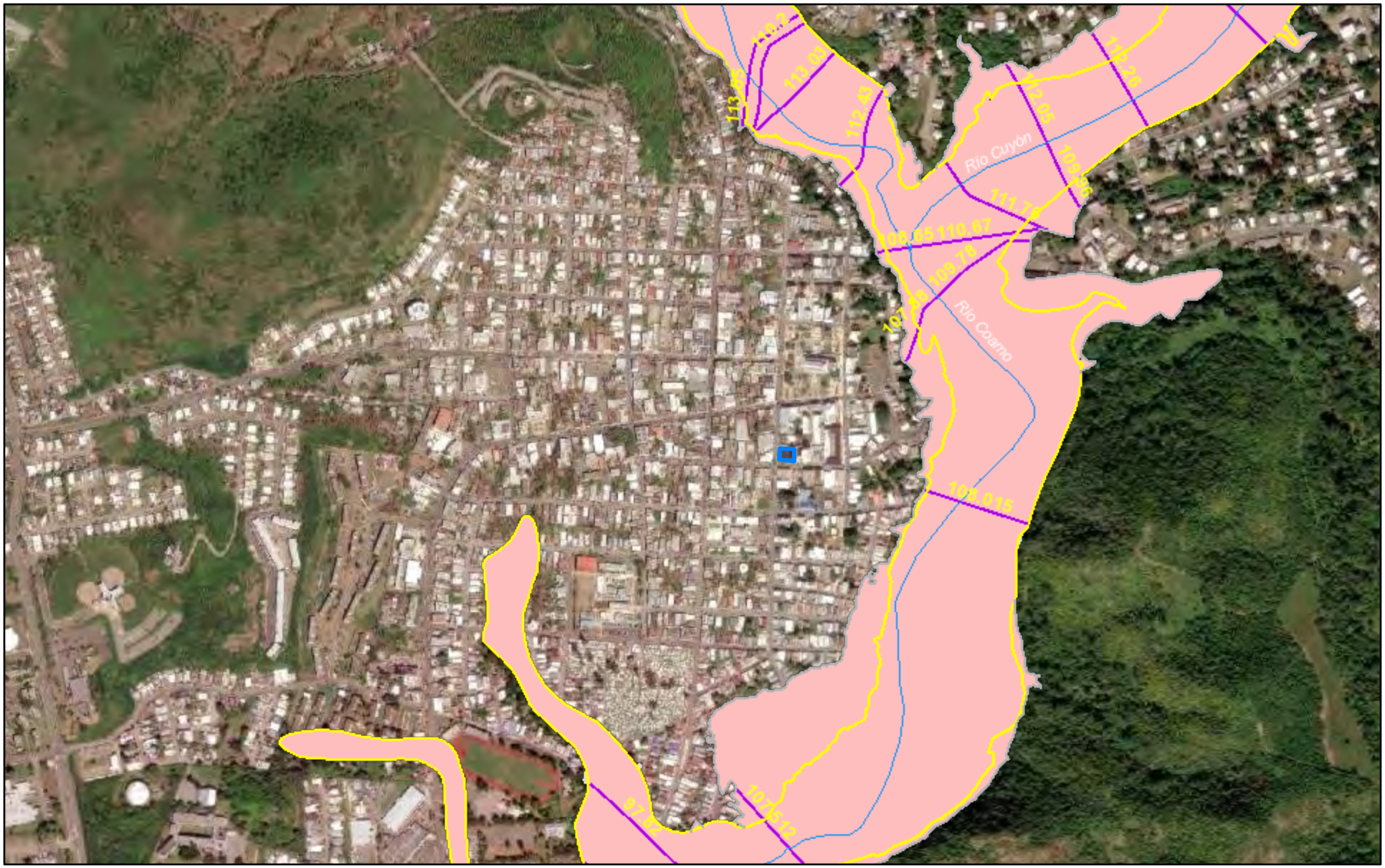
W, Rio Descalabrado, 1945, 7.5-minute

SITE NAME: Los Pisos
ADDRESS: 26 Florencio Santiago
Coamo, PR 00769
CLIENT: Sea Horse Wastewater Services, CSP.

N

# Mapa Niveles de Inundación Base Recomendados




2/5/2025, 3:20:45 PM

1:9,028

0 395 790 1,580 ft

0 120 240 480 m

PRPB; FEMA, Maxar

Municipios Limite

0.2 PCT Área de Peligro de Inundación

A

AE

AO

A Costera

VE

0.2 PCT Límite de Acción Moderada de la Ola (LiMWA)

0.2 PCT Nivel de Inundación Base Recomendado

0.2 PCT- Límite entre niveles de inundación ABFE

Junta de Planificación, FEMA

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

# SLIDES-PR

**ACT_CARRETERAS_ESTATALES**

**Susceptibilidad_Derrumbe_PR**

Susceptibilidad_Derrumbe_PR.tif

- Bajo
- Moderado
- Alto
- Muy Alto
- Excepcionalmente Alto

El mapa que tiene datos del proyecto SLIDES-PR del Departamento de Geología en la UPRM. Contacto: kenneth.hughes@upr.edu.

100m

Vexcel Imaging | Maxar | Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS

# PLANO DE ORDENACIÓN
# MUNICIPIO AUTÓNOMO DE COAMO

CERTIFICACIÓN
ADOPTADO POR LA JUNTA DE PLANIFICACION DE PUERTO RICO
SECRETARIO(A)
VIGENCIA: 10 JUL 2010

| | | |
|---|---|---|
| | 17 | 18 |
| 21 | **22** | 23 |
| 28 | 29 | 30 |

## CLASIFICACIÓN Y CALIFICACIÓN DE SUELOS

Límite de Calificación
Límite de Clasificación

**SU** **SUELO URBANO**
- C-L Comercial Liviano
- C-I Comercial Intermedio
- DT-G Dotacional General
- DT-P Dotacional Parque
- I-L Industrial Liviano
- I-P Industrial Pesado
- PP Playas Públicas
- R-A Residencial Alta Densidad
- RCM Residencial Comercial Mixto
- R-I Residencial Intermedio

**SUAD** **SUELO URBANO ATÍPICO DESARROLLADO**
- AD Área Desarrollada

**SUP** **SUELO URBANIZABLE PROGRAMADO**
- UR Urbanizable

**SUNP** **SUELO URBANIZABLE NO PROGRAMADO**
- UR Urbanizable

**SUAT** **SUELO URBANO ATÍPICO TURÍSTICO**

*Zona de Interés Turístico (ZIT)*: Baños de Coamo - Adoptada el 27 de Mayo de 1993*
- CT-L Comercial Turístico Liviano
- DTS Distrito Turístico Selectivo
- RT-I Residencial Turístico Intermedio

**SRC** **SUELO RÚSTICO COMÚN**
- A-G Agrícola General
- DS Desarrollo Selectivo
- PP Playas Públicas
- R-G Rural General

**SREP** **SUELO RÚSTICO ESPECIALMENTE PROTEGIDO**

**SREP - A**
- A-P Agrícola Productivo

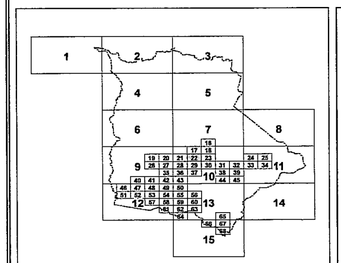
**SREP - B**
- B-Q Bosque

**SREP - C**
- CR-C Conservación de Recursos - Cuencas

**SREP - E**
- CR Conservación de Recursos

## Leyenda:

- Escuela
- Centro de Gobierno
- Casa Alcaldía
- Límite de Barrio
- Límite de Municipio
- Bosque y Reserva Natural
- Estación de Policía
- Tribunal de Justicia
- Estación de Bomberos
- Centro Urbano (Ley 212)
- Parcela
- Área de Planificación Especial
- Hospital
- Cementerio
- Biblioteca
- Subestación A.E.E.
- Carreteras
- Hidrología
- Lagos y Lagunas
- Plaza Pública
- Plaza de Mercado
- Sitio Histórico
- Centro Cultural
- Zona Histórica *(Resolución 95-45-005-JP-ZH de 19 de Julio de 1992)*
- ZIT *



Índice de Hojas
Hoja Núm. 22

N W E S

Escala
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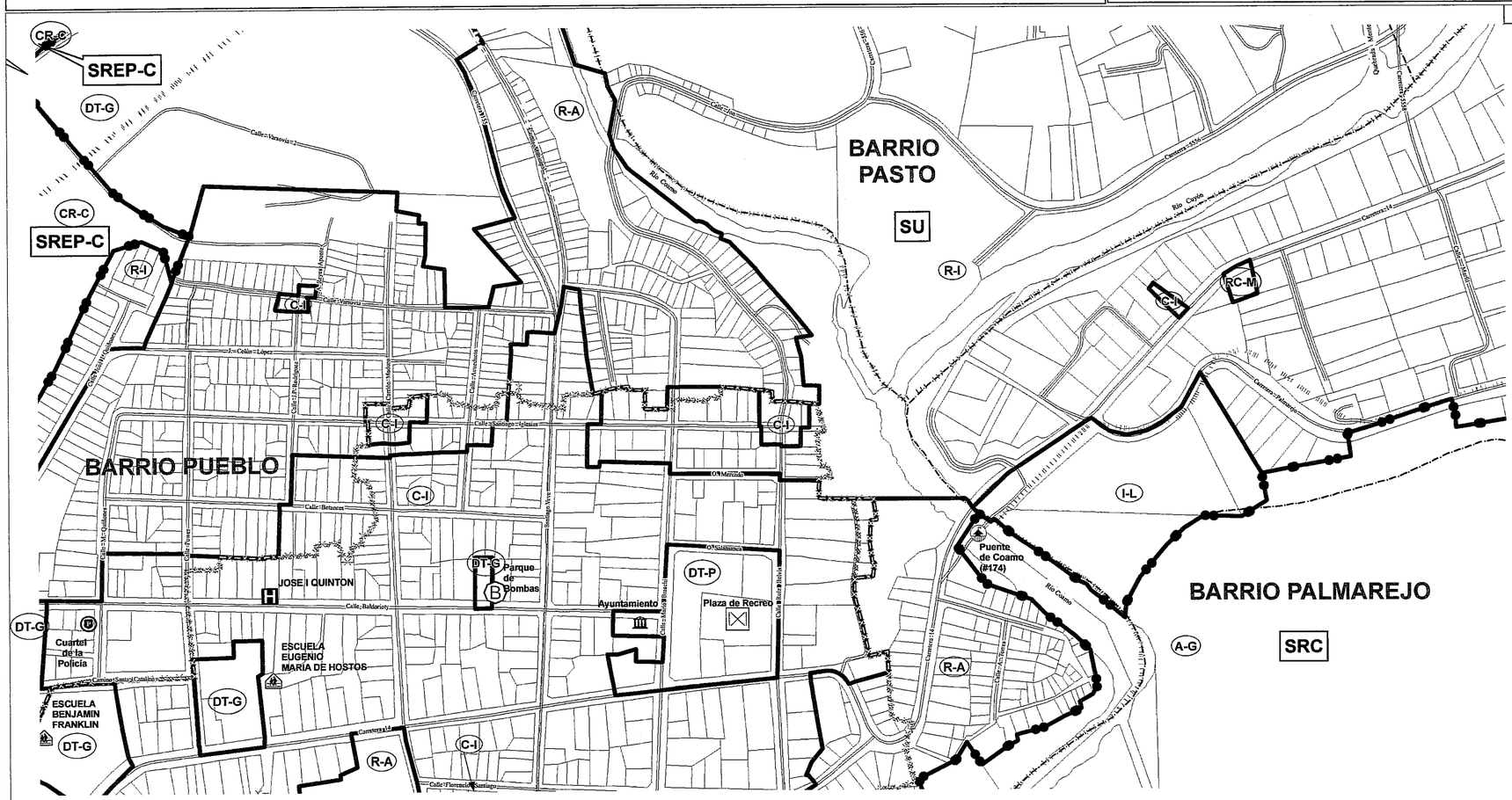
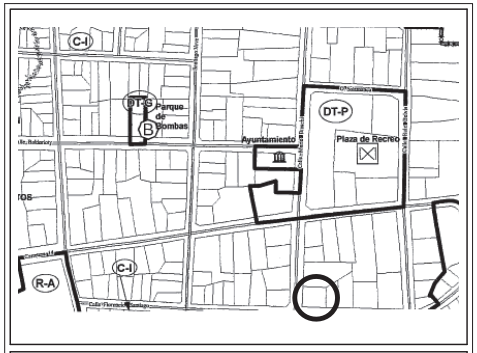


**Appendix D –As-Built Site & Floor Plans**

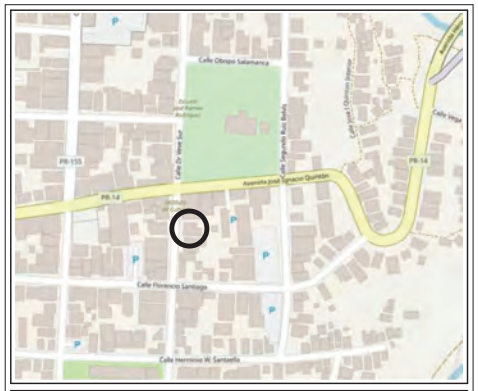
Attachment #25-Construction Drawings

# EDIFICIO DE USO MIXTO ( COMERCIO Y VIVIENDA )
# CALLE FLORENCIO SANTIAGO # 26
# BARRIO PUEBLO, COAMO, PUERTO RICO

OWNER : MUNICIPO AUTONOMO DE COAMO
PROPERTY TAX-LIST NUMBER : 345-033-046-09
LAMBERT COORDINATES
X : 208114.3382 , Y : 227234.8452




ZONING MAP



LOCATION MAP

USGS MAP

FLOOD MAP

## INDEX OF DRAWINGS


| SHEET NUMBER | SHEET TITLE | NO. OF PAGE |
|---|---|---|
| T-1 | TITLE SHEET | 1 |
| X-1 | SURVEY | 2 |
| C-1 | EXISTING CONDITION – DEMOLITION | 3 |
| C-2 | PROPOSED SITE PLAN | 4 |
| A-1 | GROUND FLOOR PLAN | 5 |
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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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Sánchez Arana, dirigen la licencia 3643, certifica que esta y el proyecto son confeccionados y/o diseñados y/o preparados entre planos y las especificaciones complementarias. También certifica que entiende que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de la Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Asimismo que cualquier desviación hasta o modificación de la misma será de su sola y exclusiva responsabilidad y por ende relevan a los firmantes de cualquier responsabilidad por la misma. Los firmantes, no hacen responsable a cualquier cambio posterior y realizados por el DACO.



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TITLE SHEET

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | T-1 |
| DATE 12/07/2019 | |

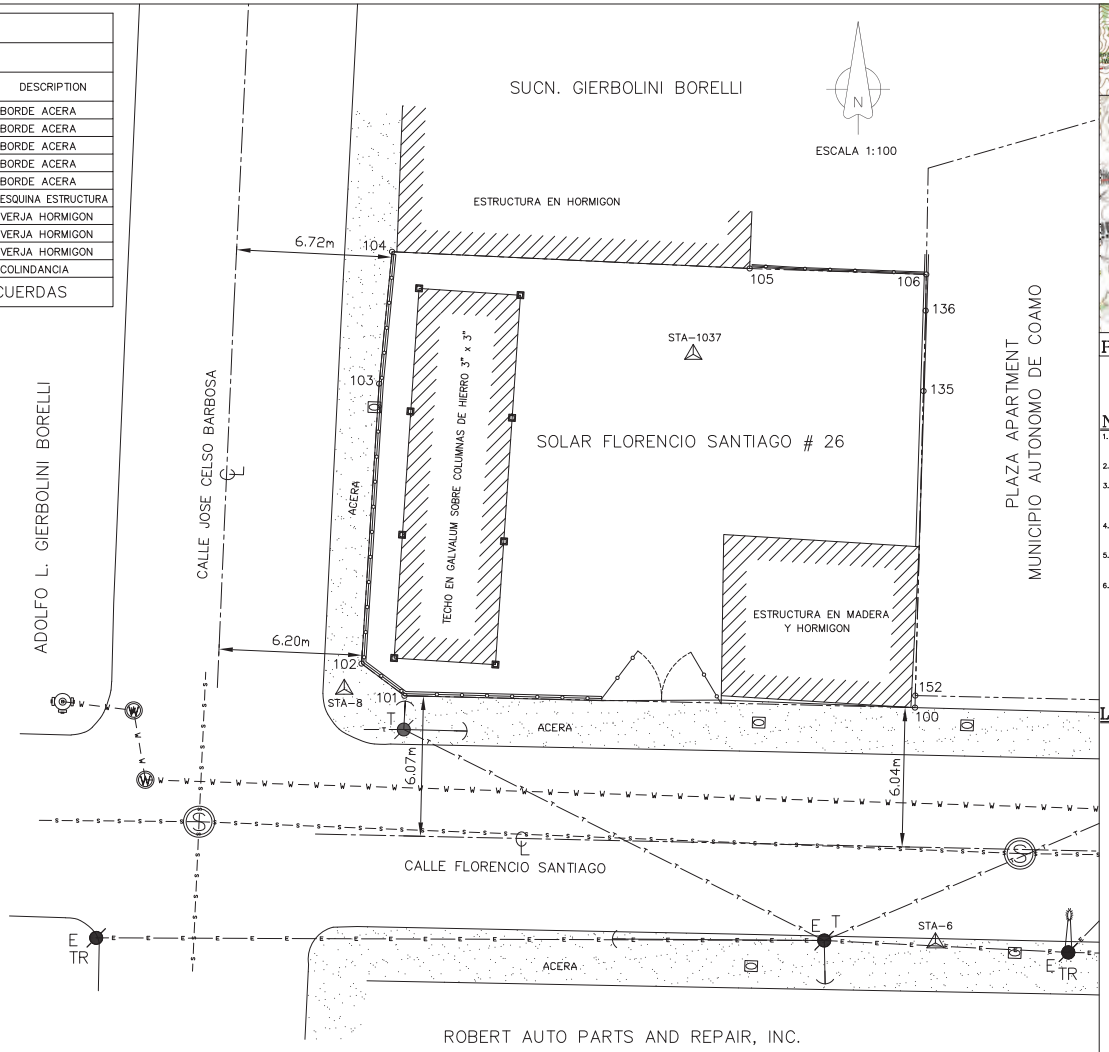
PARCEL NAME: SOLAR FLORENCIO SANTIAGO # 26

## SURVEY DATA

| LINE | BEARING | DISTANCE | POINT | COORDINATES NORTH (Y) | COORDINATES EAST (X) | DESCRIPTION |
|---|---|---|---|---|---|---|
| 100–101 | N 88°40'17" W | 22.11 | 100 | 227225.8361 | 208124.8795 | BORDE ACERA |
| 101–102 | N 53°10'28" W | 2.32 | 101 | 227226.3488 | 208102.7780 | BORDE ACERA |
| 102–103 | N 3°35'19" E | 12.14 | 102 | 227227.7399 | 208100.9202 | BORDE ACERA |
| 103–104 | N 5°34'51" E | 5.74 | 103 | 227239.8574 | 208101.6802 | BORDE ACERA |
| 104–105 | S 87°18'57" E | 15.50 | 104 | 227245.5693 | 208102.2383 | BORDE ACERA |
| 105–106 | S 88°5'41" E | 7.65 | 105 | 227244.8434 | 208117.7219 | ESQUINA ESTRUCTURA |
| 106–136 | S 1°1'47" W | 1.57 | 106 | 227244.5890 | 208125.3676 | VERJA HORMIGON |
| 136–135 | S 1°31'58" W | 3.48 | 136 | 227243.0220 | 208125.3394 | VERJA HORMIGON |
| 135–152 | S 1°31'58" W | 13.19 | 135 | 227239.5425 | 208125.2463 | VERJA HORMIGON |
| 152–100 | S 1°31'58" W | 0.52 | 152 | 227226.3564 | 208124.8935 | COLINDANCIA |

AREA = 447.3740 SQ.MTS. = 0.1138 CUERDAS

| TABLA DE CONTROLES | | | |
|---|---|---|---|
| PUNTO | NORTE | ESTE | DESCRIPCION |
| 6 | 227215.6510 | 208125.7650 | PK EN ACERA |
| 8 | 227226.6300 | 208100.1700 | PK EN ACERA |
| 1037 | 227241.1284 | 208115.2806 | PK EN ASFALTO |



## PLANO DE LOCALIZACION

ESCALA 1:20,000

CENTROIDE
COORDENADAS LAMBERT NAD 83 NSRS REV 2007
N=227236.5655
E=208112.3372

## NOTAS:

1. TODAS LAS DIMENSIONES ESTAN EN EL SISTEMA METRICO, A MENOS QUE SE INDIQUE LO CONTRARIO.
2. DATA DE CAMPO TOMADA EN OCTUBRE 26, 2018.
3. EL DATUM HORIZONTAL ES EL NAD 83 NSRS REV. 2007, EL SISTEMA DE COORDENADAS ES LA PROYECCION CARTOGRAFICA LAMBERT ZONA 5200 PR/VI Y LAS UNIDADES SON EN METROS.
4. LA INFORMACION DESCRITA EN ESTE PLANO REPRESENTA EL RESULTADO DE LAS CONDICIONES GENERALES EXISTENTE AL MOMENTO DE REALIZAR EL TRABAJO DE CAMPO.
5. EL CONTRATISTA DEBERA VERIFICAR TODAS LAS CONDICIONES, MEDIDAS Y NOTIFICAR AL DUEÑO DE CUALQUIER DISCREPANCIA.
6. LAS UTILIDADES BAJO TIERRA FUERON LOCALIZADAS A BASE DE LA EVIDENCIA SOBRE EL TERRENO. EL CONTRATISTA DEBERA NOTIFICAR A TODAS LAS AUTORIDADES DE DICHAS UTILIDADES ANTES DE CUALQUIER TRABAJO.

## LEYENDA

- = HIDRANTE
- = CONTADOR DE AGUA
- = VALVULA DE AGUA
- = POSTE MADERA ELECTRICO
- = POSTE MADERA PRTC
- = POSTE MADERA ELECTRICO CON TRANSFORMADOR
- = POSTE ALUMBRADO MADERA
- = "MANHOLE" SANITARIO
- = ACERAS
- = ESTRUCTURAS
- = ESTACION
- = PORTON
- = LETRERO
- = LINEA ELECTRICA
- = LINEA TELEFONO
- = LINEA COLINDANCIA
- = VERJA DE ESLABONES EXISTENTE
- = TUBO SANITARIO
- = TUBO DE AGUA POTABLE

## DATOS REGISTRALES

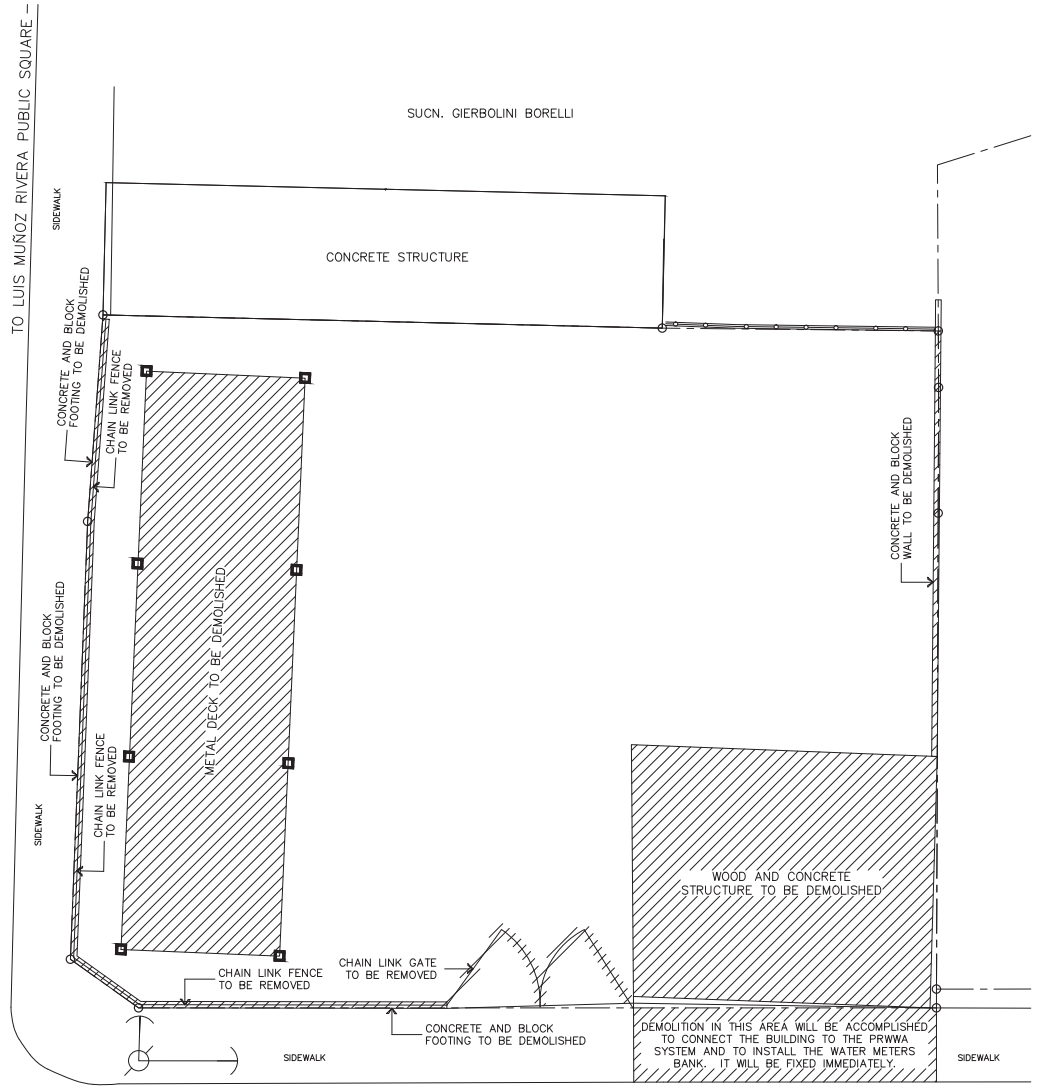
TOMO:
FOLIO:
FINCA:
CATASTRO: 345-033-046-09

| REV. NO. | DESCRIPCION | FECHA |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

# PLANO DE MENSURA DEL SOLAR FLORENCIO SANTIAGO # 26
# PROPIEDAD DEL MUNICIPIO AUTONOMO DE COAMO
# CALLE FLORENCIO SANTIAGO # 26, BARRIO PUEBLO, COAMO, P.R.


ANGEL NOEL COLON GUZMAN
AGRIMENSOR LICENCIADO
REPLANTEO EN PROYECTOS DE CONSTRUCCION
MENSURAS–TOPOGRAFIAS–SEGREGACIONES
SERVICIOS DE POSICIONAMIENTO GLOBAL (G.P.S.)
NIVELACIONES–PERITAJE EN CORTE
OFIC. 787-241-8290
CEL. 787-567-6161
E-MAIL: agrimensores4n@yahoo.com


| | | | |
|---|---|---|---|
| HOJA DE: | | | HOJA NO. 1 |
| MENSURA POR: ANGEL NOEL COLON GUZMAN | FECHA: OCTUBRE 27, 2018 | | |
| REVISADO POR: ANGEL NOEL COLON GUZMAN | NOMBRE DE ARCHIVO: PLANO MENSURA SOLAR FLORENCIO SANTIAGO #26-COAMO.dwg | | DE 1 |
| DIBUJADO POR: | ESCALA: 1:100 | | |




DEMOLITION PLAN – EXISTING CONDITION

SCALE: 3/16" = 1'-0"

Legend:

DEMOLITION AREA

Notes:

1) Demolition shall include removing of existing surface and the structures that actually exist in the hatched area, unless otherwise specified.

2) Remaining layers under the removed material shall be compacted to 95% of the maximum dry density obtained in the modified Proctor Test (ASTM D1557).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EDIFICIO DE USO MIXTO
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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

PRELIMINARY PHASE


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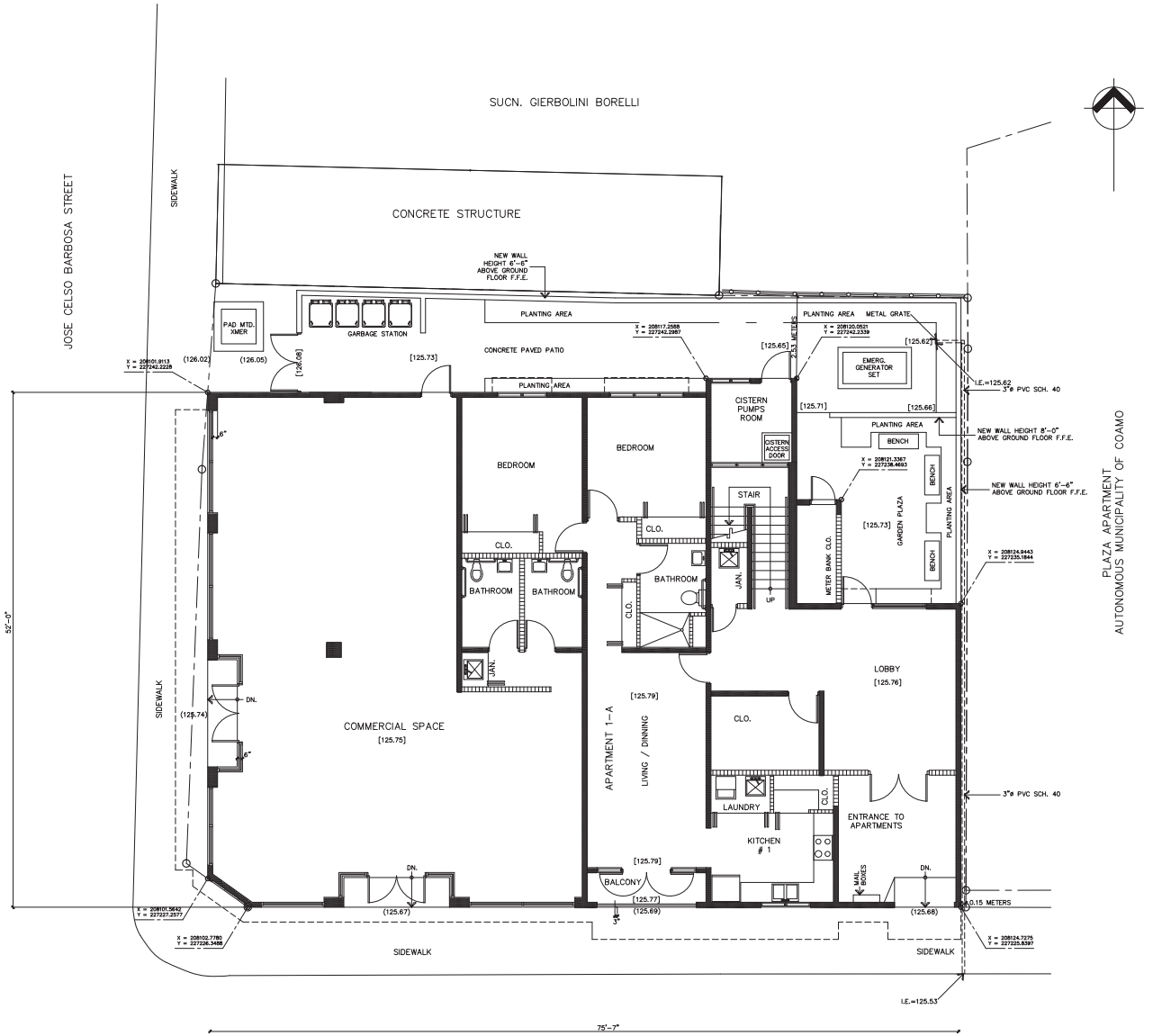
EXISTING CONDITION - DEMOLITION

| | |
|---|---|
| PROJECT | SHEET NO. |
| DESIGNED J.L.P.B | OF DRAWING |
| DRAWN J.L.P.B. | C-1 |
| DATE 11/07/2019 | |


NOTA: Yo, José Luis Pérez Berenguer, Ingeniero Licenciado, # de licencia 15873, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que estamos en cumplimiento con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de las Agencias, antes Reglamentanos o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación hecha a ratificación de estos planos y especificaciones sin mi autorización escrita y aprobación, anulará mi responsabilidad profesional en el proyecto y me exime de cualquier responsabilidad en caso de cualquier acción judicial y administrativa que surja como consecuencia, incluyendo, pero sin limitarse, a la terminación de la participación de los profesionales de certificación profesional en la OGPe.




## LEGEND

(126.02) EXISTING FLOOR ELEVATION, IN METERS

[126.02] FINISHED FLOOR ELEVATION, IN METERS

LAMBERT COORDINATES OF A POINT

## PROPOSED SITE PLAN

SCALE: 3/16" = 1'-0"

NOTA:
Yo, José L. Pérez Berenguer, número de licencia 13573, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. Inmisible certifico que entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos en vigor al momento de la radicación de los mismos. Además, certifico que entiendo que la aprobación de estos planos y especificaciones no constituye responsabilidad alguna de mi parte por cualquier error u omisión que pueda surgir durante la construcción de la obra. Finalmente

## ARCHITECTURAL LEGENGD

- AXIS BUBBLE
- REINFORCED CONCRETE WALL
- CONCRETE BLOCKS WALL
- PRECAST CONCRETE WALL
- GYBSUM BOARD PARTITION
- PROJECT LIMIT
- INDICATES DETAIL NUMBER / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL ELEVATION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- W.S. WALL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- INTERIOR ELEVATION
- EQUIPMENT IDENTIFICATION
- REVISIONS (WHEN INDICATED IN DRWS.)
- INDICATES DOOR DESIGNATION AS SCHEDULE NOTE: HAND OF DOOR DETERMINED BY PLAN DRAWINGS OR MIRROR IMAGE IF APPLIES.
- WINDOW DESIGNATION AS SCHEDULE
- N.I.C. NOT INCLUDED IN CONTRACT
- A.F.F. ABOVE FINISHED FLOOR
- CH. CEILING HEIGHT
- F.D. FIELD DIMENSIONS
- F.F.E. FINISHED FLOOR ELEVATION
- F.F.E. FINISHED FLOOR ELEVATION
- FINISHED FLOOR ELEVATION
- GATE DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- RAILING DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- SF1 STOREFRONT DESIGNATION AS SCHEDULE

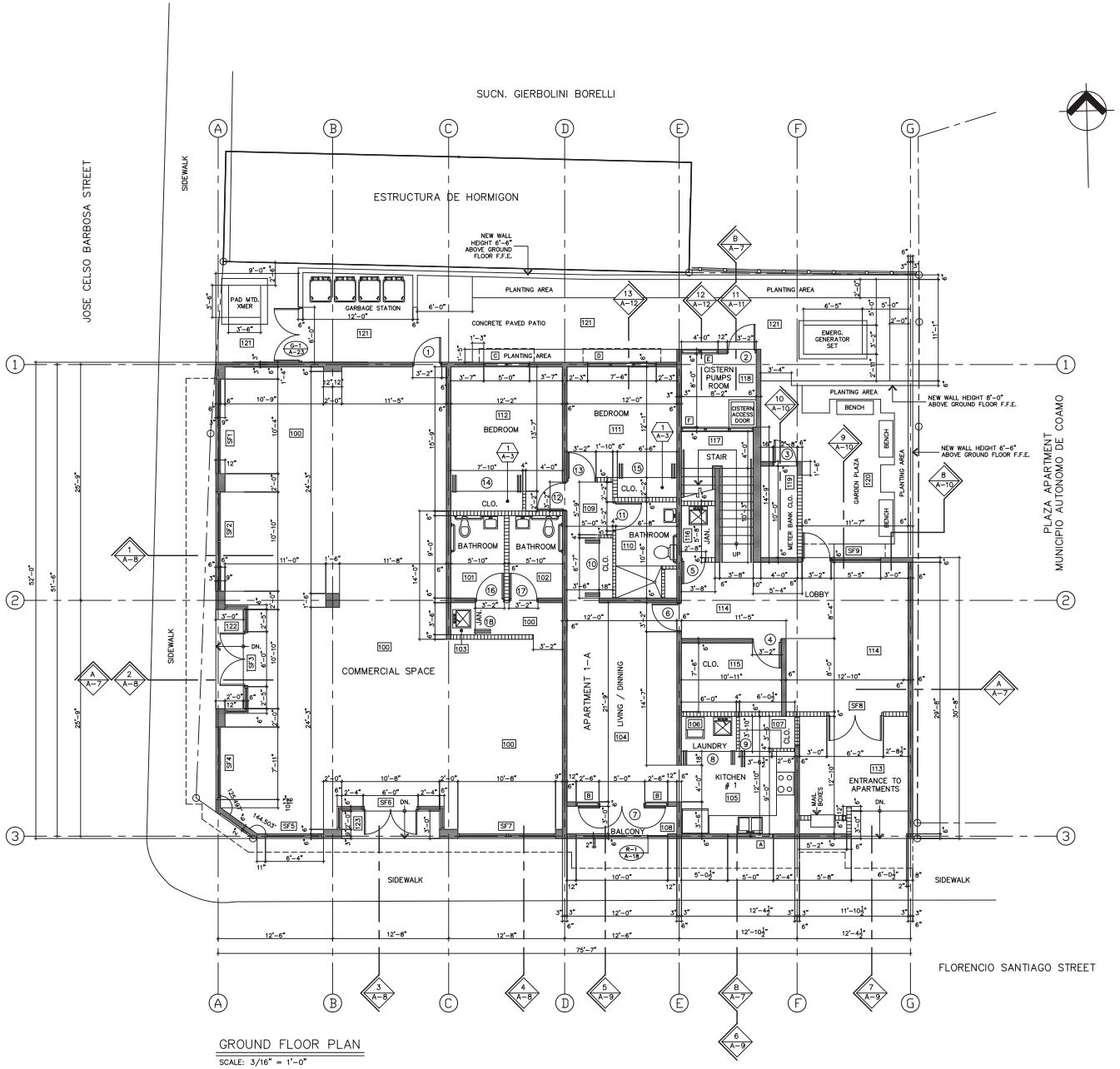
**BENCHES NOTES :**

1. 4' LONG - 15" WIDE SEATS BENCHES WITHOUT BACK SHALL BE EQUALS OR APROVED EQUALS AS WABASH VALLEY DESIGNER SERIE MODEL DS302(T) .

2. BENCHES FINISH COLOR TO BE SELECTED BY THE ARCHITECT.

**MAILBOXES NOTE :**

1. HORIZONTAL MAILBOX - 5 DOORS HIGH UNIT - 10 B DOORS (9 USABLES) FRONT LOADING – PRIVATE ACCESS SHALL BE EQUAL OR APROVED EQUAL AS SALSBURY INDUSTRIES MAILBOX MODEL # 3610, FINISH : ALUMUNUM.




GROUND FLOOR PLAN

SCALE: 3/16" = 1'-0"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# EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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DRAWING TITLE

GROUND FLOOR PLAN

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-1 |
| DRAWN | |
| DATE 12/07/2019 | |

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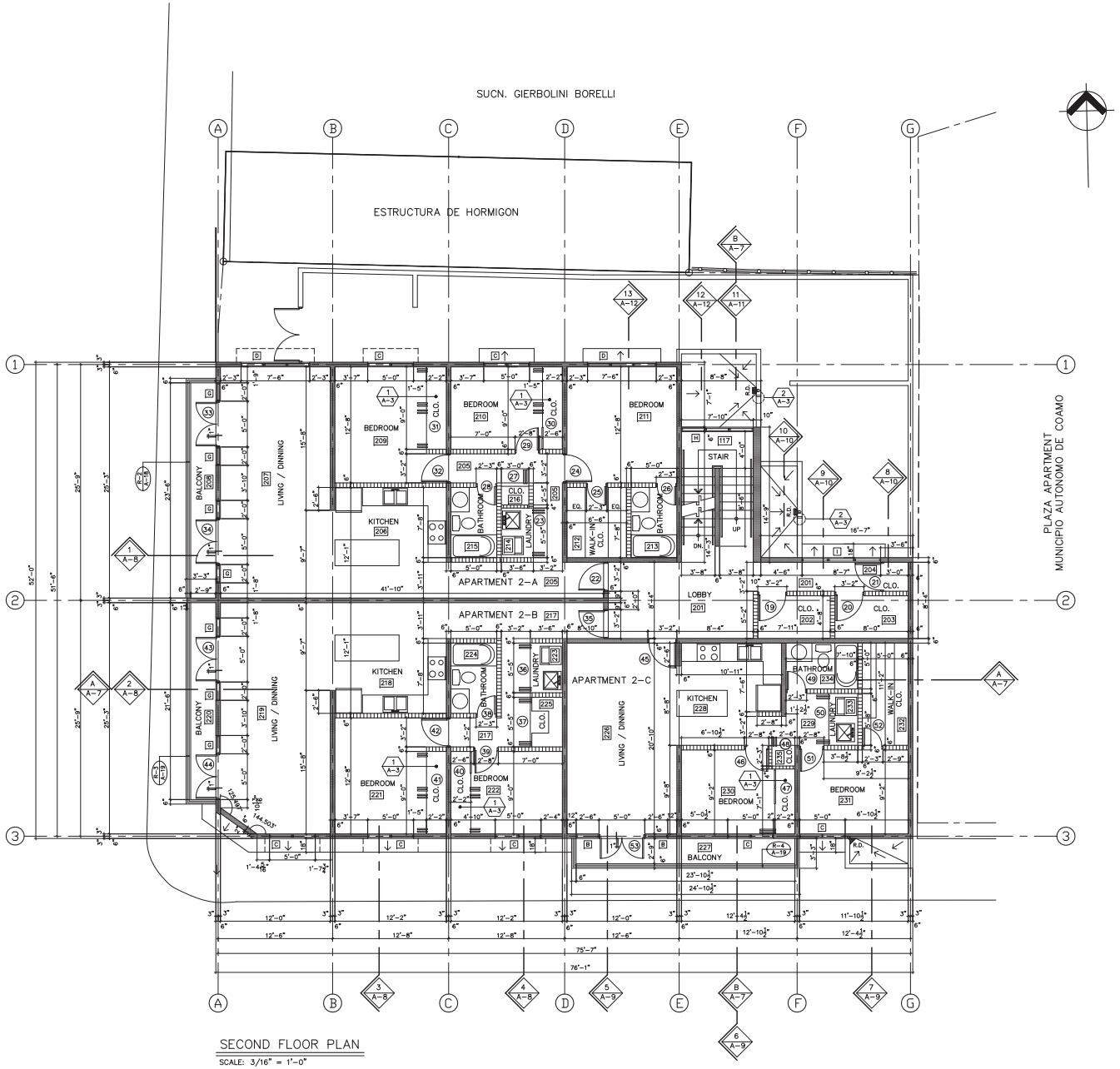


SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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

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

3. IN CASE OF CONFLICT BETWEEN ARCHITECTS AND CONSULTANTS DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

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

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

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

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

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

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

11. SUBSTITUTIONS, REVISIONS, OR CHANGES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. REFER TO SPECIFICATIONS FOR SPECIFIC PROCEDURES. THE PROJECT INTENDS TO USE AS MUCH OF RECYCLED MATERIALS AND EQUIPMENT AS POSSIBLE. MANUFACTURES MODEL NUMBERS AND SPECIFICATIONS ARE FOR COMPARISON PURPOSES. ANY RECYCLED MATERIAL OR EQUIPMENT MUST MEET CITED QUALITY AND STANDARDS ESPECIALLY WITH REGARD TO STRUCTURAL SOUNDNES AND LIFE SAFETY.

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

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

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

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

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

18. COMMENCEMENT OF WORK SHALL BE DEEMED AS THE GC'S ACKNOWLEDGMENT OF ALL WORK REQUIRED TO COMPLETE PROJECT IN CONFORMANCE WITH CONTRACT DOCUMENTS AND SCHEDULE.


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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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DRAWING TITLE

SECOND FLOOR PLAN

| | |
|---|---|
| PROJECT | SHEET NO. |
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-2 |
| DATE 7/07/2019 | |

NOTA:
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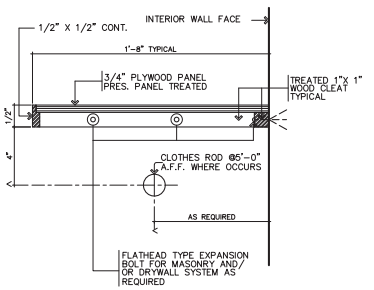
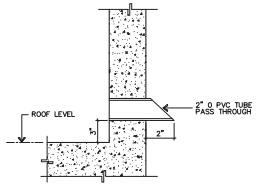
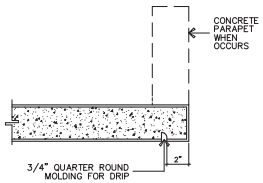


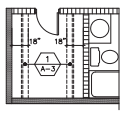

CLOSET DETAIL 1/A-3
N.T.S.



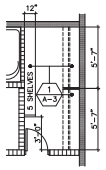

OVERFLOW DETAIL 2/A-3
N.T.S.




DRIP DETAIL 3/A-3
N.T.S.



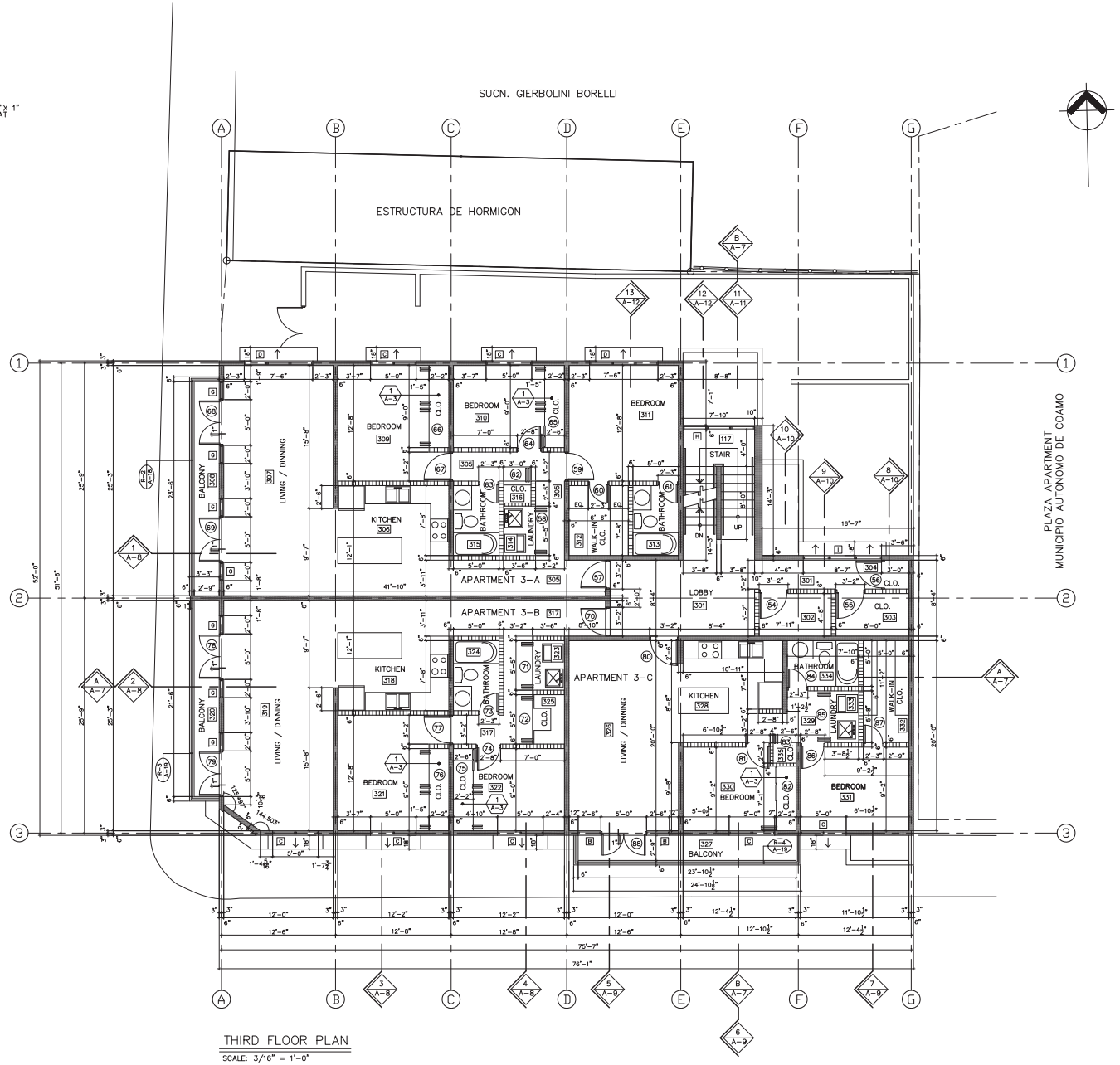

WALK-IN CLOSETS
MKD. 212 & 312




WALK-IN CLOSETS
MKD. 232 & 332

**CLOSETS MKD. 107, 109, 216, 225, 235, 316, 325, AND 335 NOTE :**

1. PROVIDE EACH CLOSET WITH 5 WOOD SHELVES, REFER TO CLOSET DETAIL 1/A-3.




THIRD FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 9443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento o a cualquier otra ley o reglamento aplicable que surja de la preparación de estos planos y especificaciones o de la ejecución de las obras que se realicen de acuerdo a los mismos. Además certifico que he visitado el lugar de las obras y que no hay indicios de que se haya producido por desconocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ICPA.

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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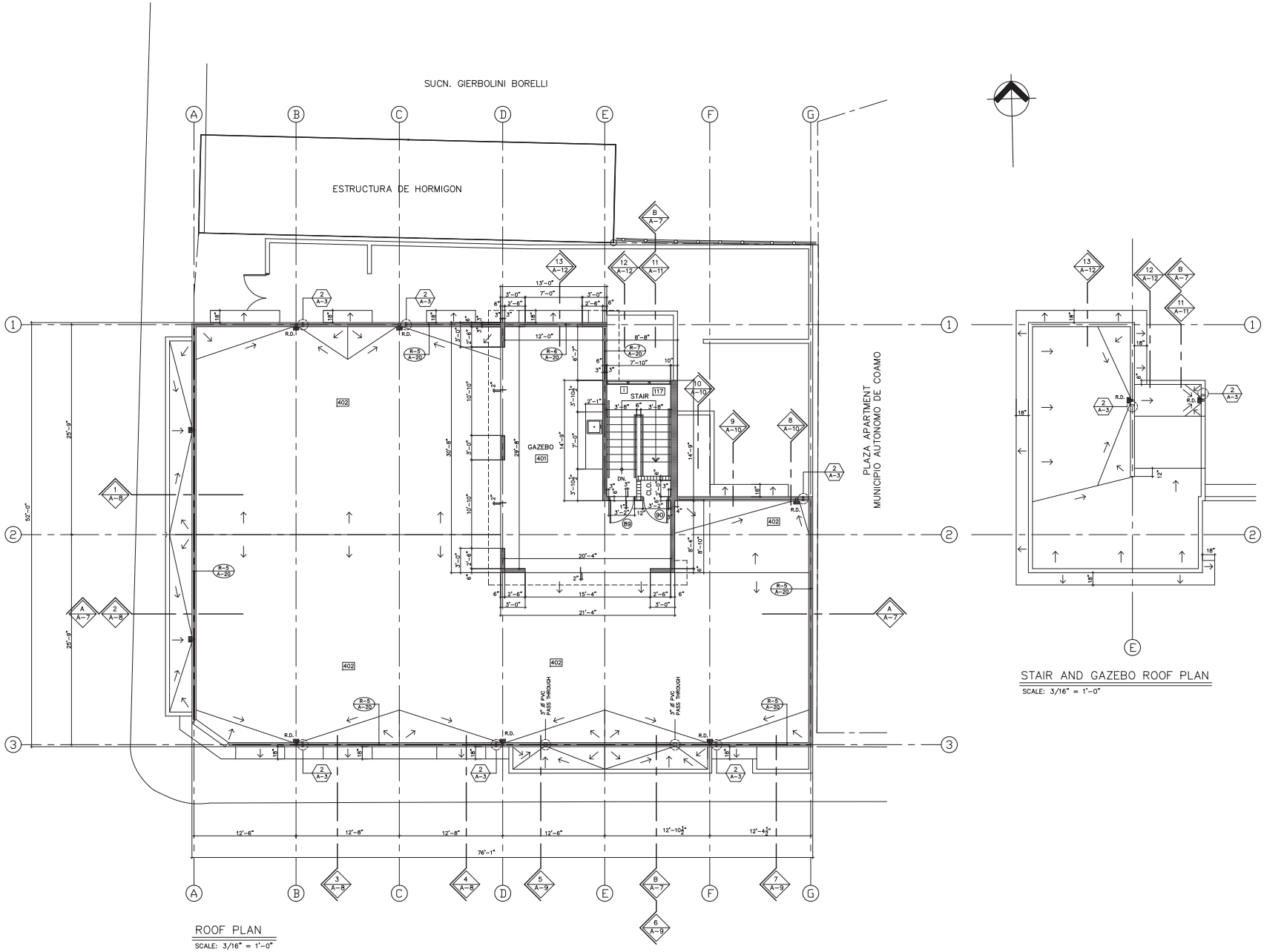
DRAWING TITLE
THIRD FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-3 |
| DATE 7/07/2019 | |




ROOF PLAN
SCALE: 3/16" = 1'-0"



STAIR AND GAZEBO ROOF PLAN
SCALE: 3/16" = 1'-0"

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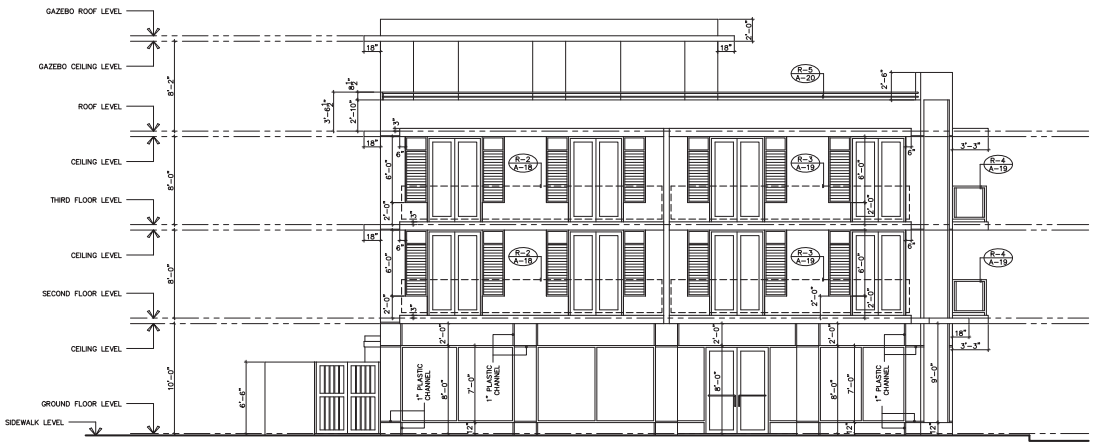
DRAWING TITLE
ROOF PLAN AND
STAIR ROOF PLAN

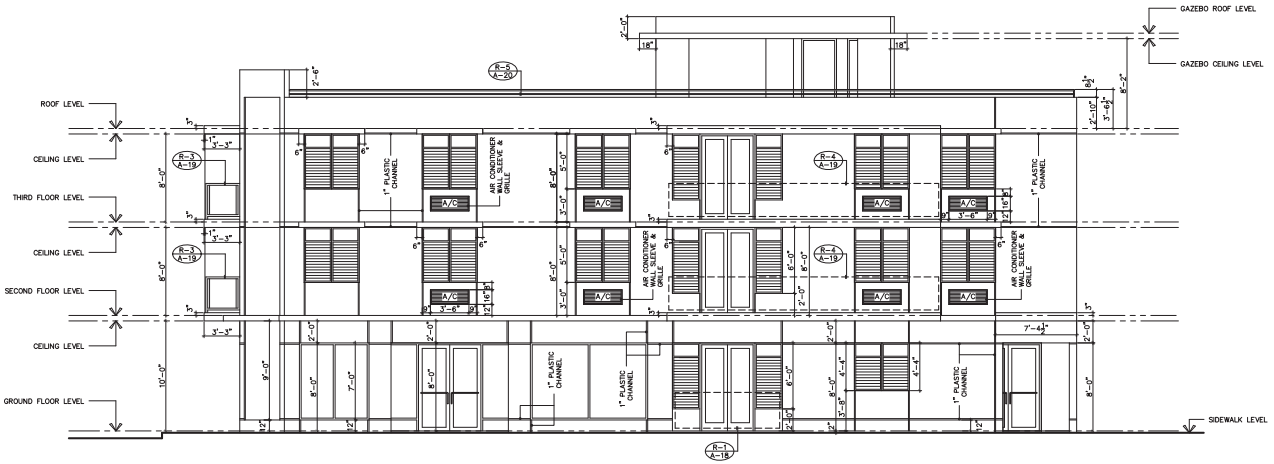
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-4 |
| DATE 4/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de este proyecto. Además, certifico que he visitado el lugar de la construcción y que he supervisado la construcción de este proyecto hasta el punto de terminación. Por lo tanto, certifico que he hecho todo lo razonablemente posible para asegurar que la construcción de este proyecto se ajuste a los planos y especificaciones aprobados y a todas las reglamentaciones aplicables. Por lo tanto, no me hago responsable de cualquier acción, judicial y disciplinaria por la ley.




WEST ELEVATION

SCALE: 3/16" = 1'-0"




SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

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| SYM. | DESCRIPTION | BY | DATE |
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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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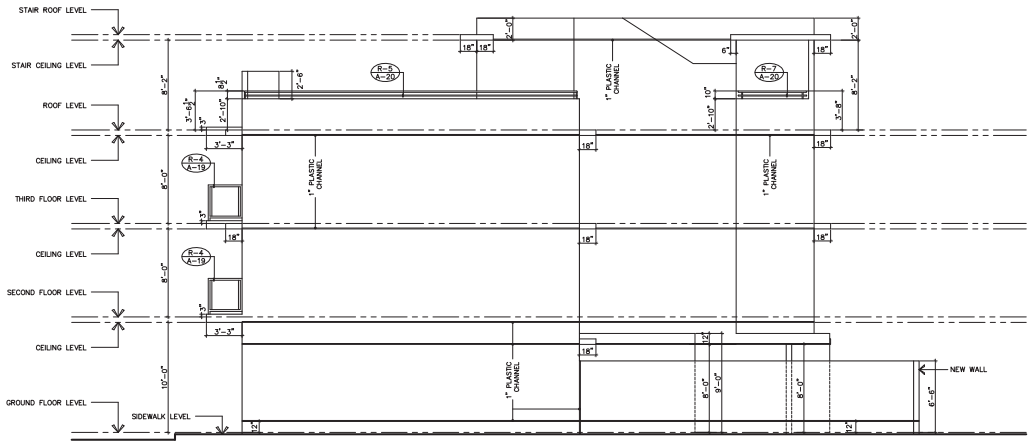
DRAWING TITLE

WEST AND SOUTH ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-5 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de este proyecto. Además, certifico que he visitado el lugar de la construcción y que he supervisado la preparación de estos planos y especificaciones y que he hecho las inspecciones necesarias para asegurar que la construcción de este proyecto se ajuste a estos planos y especificaciones. Además, certifico que he hecho todas las investigaciones necesarias y que no tengo conocimiento de ningún hecho que no haya sido revelado que pueda afectar adversamente la salud y seguridad de las personas que ocupen o utilicen la estructura. Finalmente, certifico que he hecho todas las investigaciones necesarias y que no tengo conocimiento de ningún hecho que no haya sido revelado que pueda afectar adversamente la salud y seguridad de las personas que ocupen o utilicen la estructura. Además




EAST ELEVATION

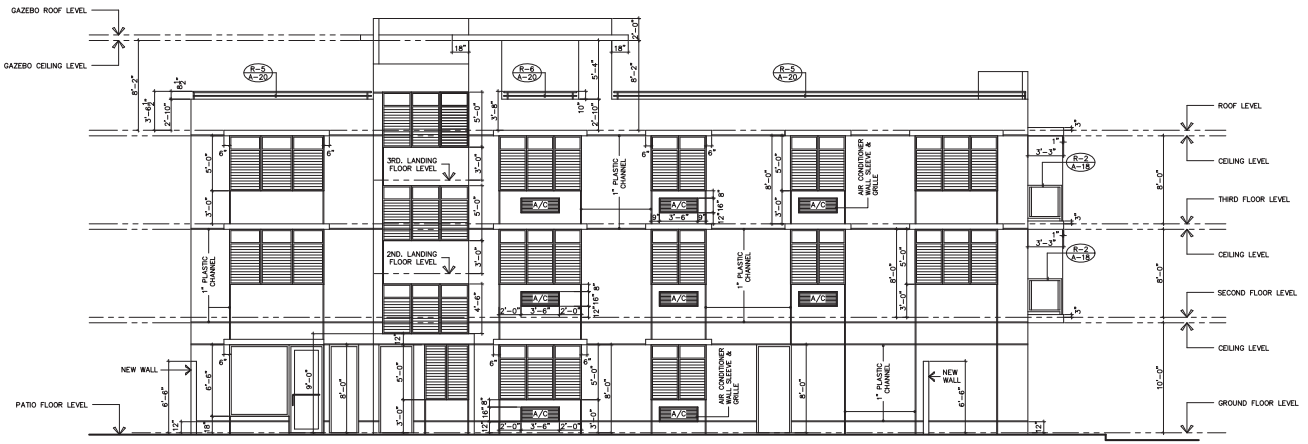
SCALE: 3/16" = 1'-0"

**AIR CONDITIONERS WALL SLEEVES AND GRILLES NOTES :**

1. FINAL MASONRY AND AIR CONDITIONERS WALL SLEVES DIMENSIONS SHALL BE FIELD VERIFIED.

2. HEAVY-GAUGE GALVANIZED STEEL, WITH INSULATION, AIR CODITIONERS WALL SLEEVES SHALL BE EQUALS OR APROVED EQUALS AS GENERAL ELECTRIC ZONELINE WALL SLEEVE RAB71.

3. STAMPED ALUMINUM GRILLES SHALL BE EQUALS OR APROVED EQUALS AS GENERAL ELECTRIC ZONELINE GRILLE RAG60.




NORTH ELEVATION

SCALE: 3/16" = 1'-0"

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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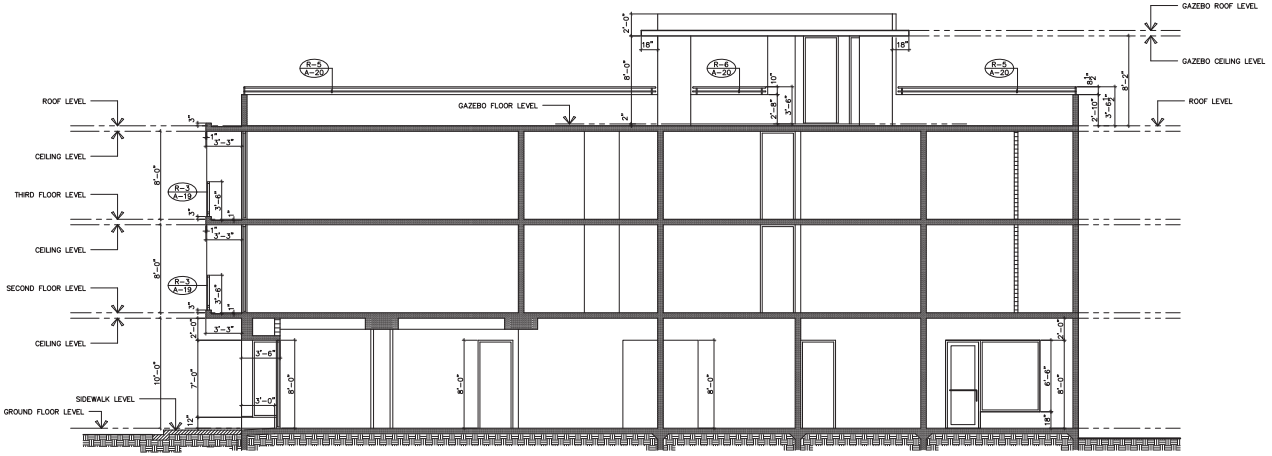
DRAWING TITLE

EAST AND NORTH ELEVATIONS

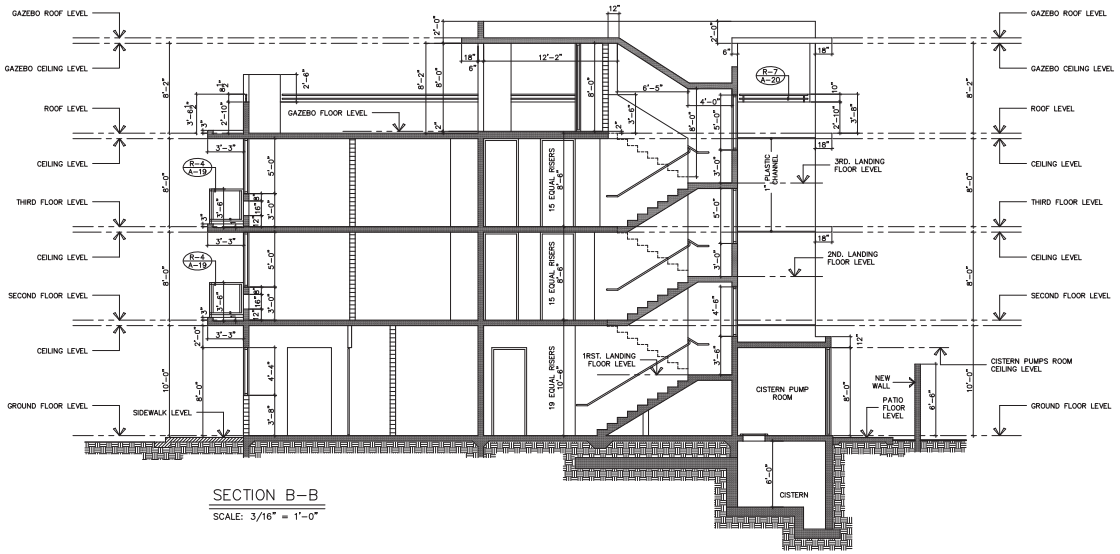
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-6 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueña de licencia 8445, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de edificios públicos y privados, incluyendo las relativas a accesibilidad para personas con impedimentos. Asimismo certifico que entiendo que soy responsable de cualquier violación a dichas reglamentaciones y que cualquier error, omisión o falsedad en la información provista en estos planos y especificaciones, o cualquier violación a dichas reglamentaciones, puede ser motivo de la revocación de mi licencia profesional y de la imposición de multas e indemnización de los hechos que se haya producido por desconocimiento o por negligencia y en ese por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ODPA.




SECTION A–A

SCALE: 3/16" = 1'–0"




SECTION B–B

SCALE: 3/16" = 1'–0"

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8445, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones aplicables de la Administración de Reglamentos y Permisos (ARPE) y el Código de Construcción vigente. Además, certifico que he visitado el lugar de la obra y que no existe ninguna condición o estructura adyacente que pueda ser afectada adversamente por la construcción propuesta en estos planos, excepto lo que se indica en los mismos. Finalmente, certifico que he hecho todo lo razonablemente posible para asegurar que estos planos y especificaciones sean precisos y completos y que no omiten información necesaria para la construcción de la obra o información que pueda inducir a error a los licitadores o a la Administración de las Normas de Diseño. Asumo la responsabilidad profesional por cualquier daño o perjuicio que pueda ocurrir como consecuencia de errores, omisiones o información incorrecta en estos planos y especificaciones, hasta el límite de la responsabilidad profesional requerida por ley. Reconozco que la aprobación de estos planos y especificaciones por parte de la Administración de Reglamentos y Permisos no implica responsabilidad alguna por parte de la Administración por errores, omisiones o información incorrecta en estos planos y especificaciones, ni por la violación de las leyes que rigen el ejercicio de la profesión de ingeniería o arquitectura. Reconozco que cualquier violación a lo antes expresado constituye una violación a las leyes que rigen el ejercicio de la profesión de ingeniería o arquitectura en Puerto Rico y me someto voluntariamente a la jurisdicción de los tribunales de Puerto Rico para hacer valer cualquier acción judicial y disciplinaria por lo aquí expresado. Certifico además que he leído el contenido de esta certificación y que todos los hechos aquí consignados son ciertos, correctos y completos de mi conocimiento personal. Finalmente, certifico que he preparado esta certificación voluntariamente y bajo ningún tipo de coacción, amenaza o promesa de remuneración. En fe de lo cual firmo la presente en San Juan, Puerto Rico, hoy 12 de julio de 2019.
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787-235-3670 ilissanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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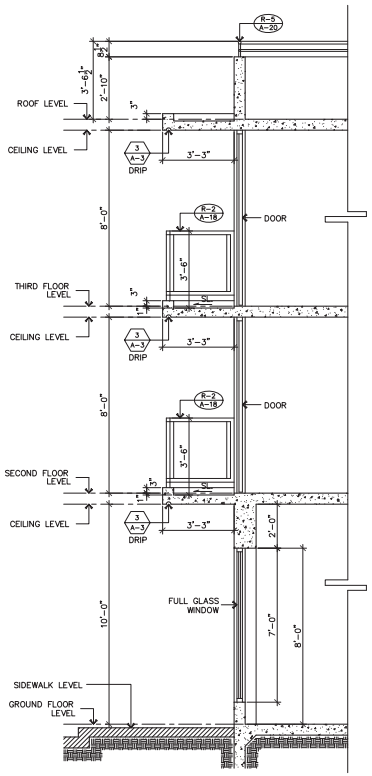
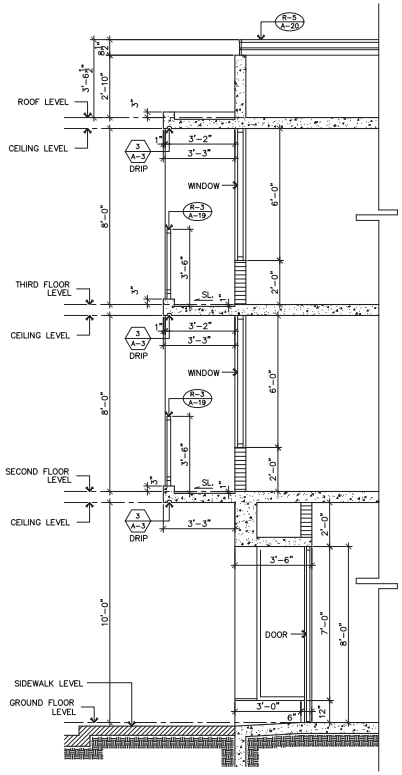
DRAWING TITLE

SECTIONS A-A AND B-B

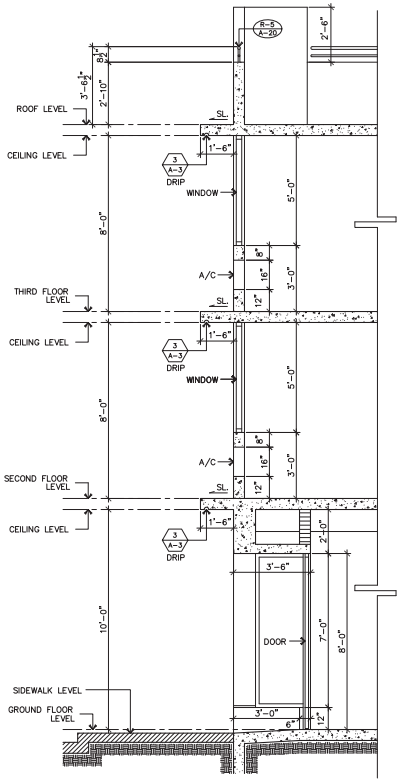
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-7 |
| DATE 12/07/2019 | |



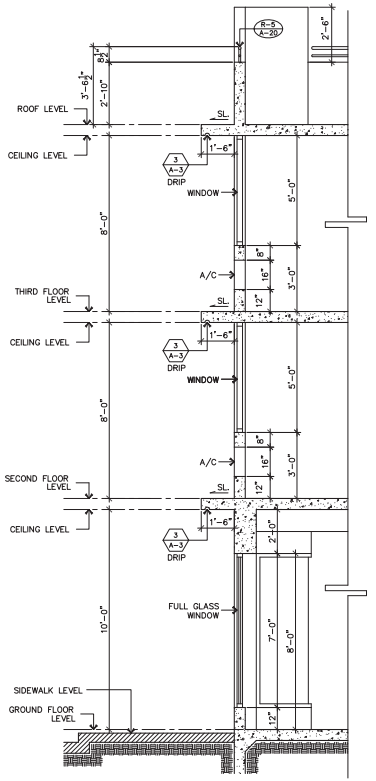

WALL SECTION 1
SCALE: 3/8" = 1'-0"




WALL SECTION 2
SCALE: 3/8" = 1'-0"




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




WALL SECTION 4
SCALE: 3/8" = 1'-0"

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787-235-3670 illesanchezarana@yahoo.com 787-390-3788

REVISIONS

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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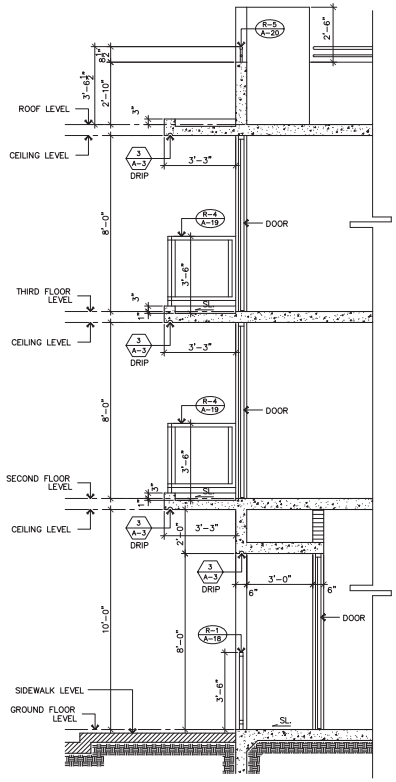
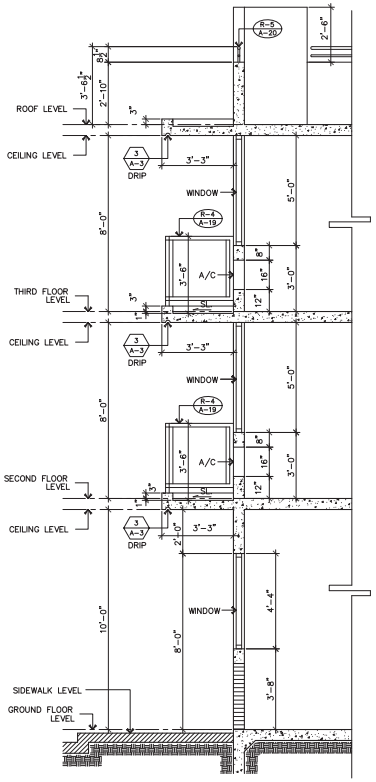
DRAWING TITLE
WALL SECTIONS
1, 2, 3 AND 4

| PROJECT | SHEET NO. OF |
|---|---|
| DESIGNED S.A.A. | DRAWING A-8 |
| DRAWN | |
| DATE 12/07/2019 | |

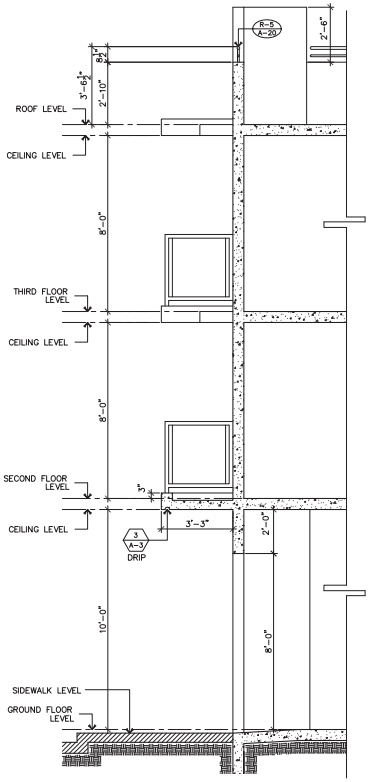
NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento en el diseño de estos planos e inobservancia de las leyes aplicables a la profesión de arquitectura. Además certifico que he visitado el lugar de la obra y que no hay impedimento alguno para la construcción de la misma. Finalmente, certifico que he verificado la información suministrada por el dueño de la obra y que la misma es correcta y fidedigna en todos sus extremos. Asimismo




WALL SECTION 5
SCALE: 3/8" = 1'-0"




WALL SECTION 6
SCALE: 3/8" = 1'-0"




WALL SECTION 7
SCALE: 3/8" = 1'-0"

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REVISIONS

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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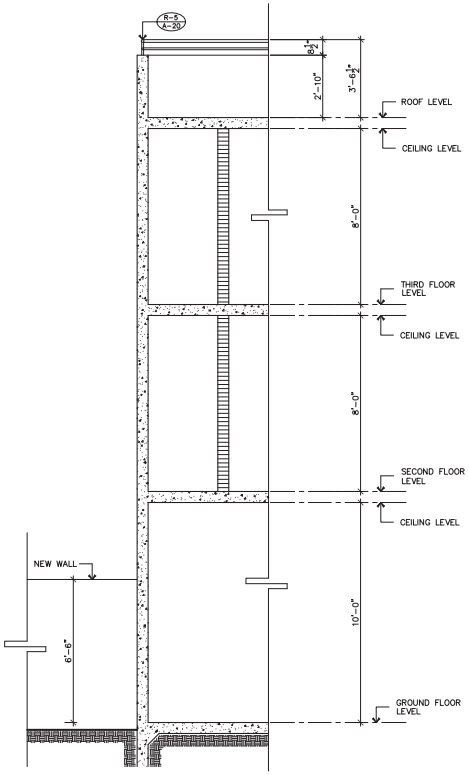
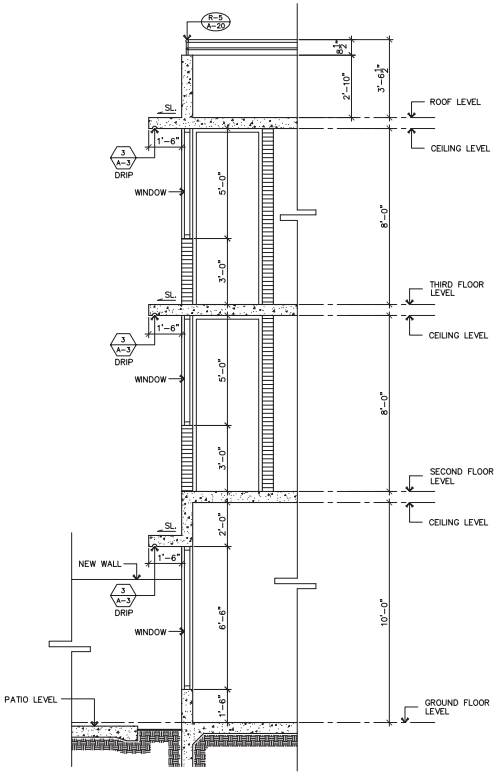
DRAWING TITLE
WALL SECTIONS
5, 6, AND 7

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-9 |
| DATE 12/07/2019 | |

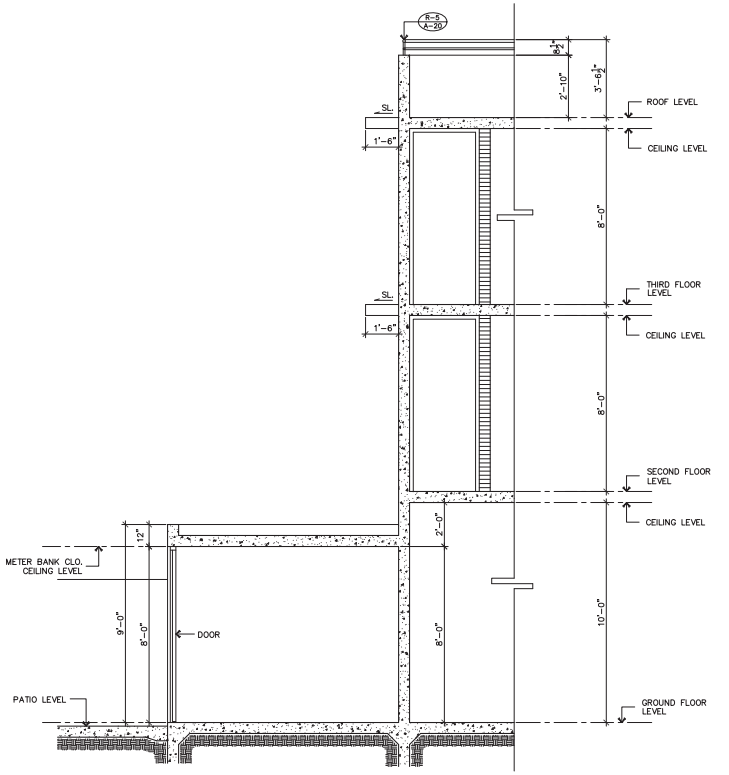
NOTA:
Yo, Ilis Sánchez Arana, número de licencia #443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que he diseñado estos planos de acuerdo a las reglas de la buena práctica de la profesión de arquitectura y que no soy responsable de cualquier modificación de los mismos que no sea hecha por mí, mis agentes o empleados, o por otras personas con mi consentimiento, ni tampoco responsable de cualquier acción judicial y disciplinaria por la 130%.




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

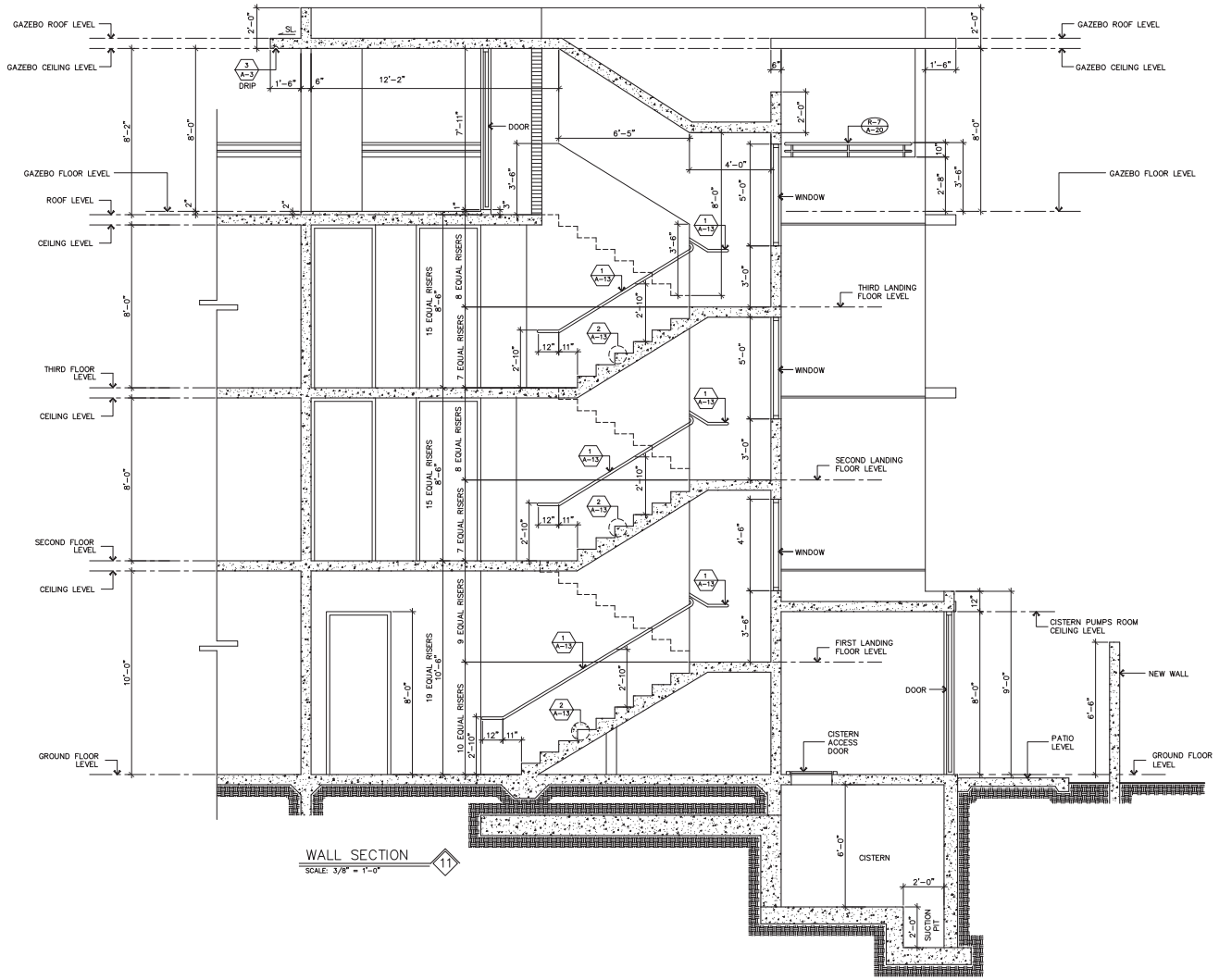



WALL SECTION 9
SCALE: 3/8" = 1'-0"




WALL SECTION 10
SCALE: 3/8" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, número de licencia #442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, entiendo que es mi responsabilidad como profesional cumplir




NOTA:
Yo, Ilis Sánchez Arana, número de licencia #443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos vigente. Además, entiendo que es mi responsabilidad como profesional autorizado a ejercer la profesión en Puerto Rico, cumplir con todas las disposiciones aplicables de dicho Reglamento y que cualquier violación a las mismas o falsificación de los hechos que en hoja protocolo por desconocimiento o por negligencia yo use por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la cual.

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illissanchezarana@yahoo.com 787-390-3788

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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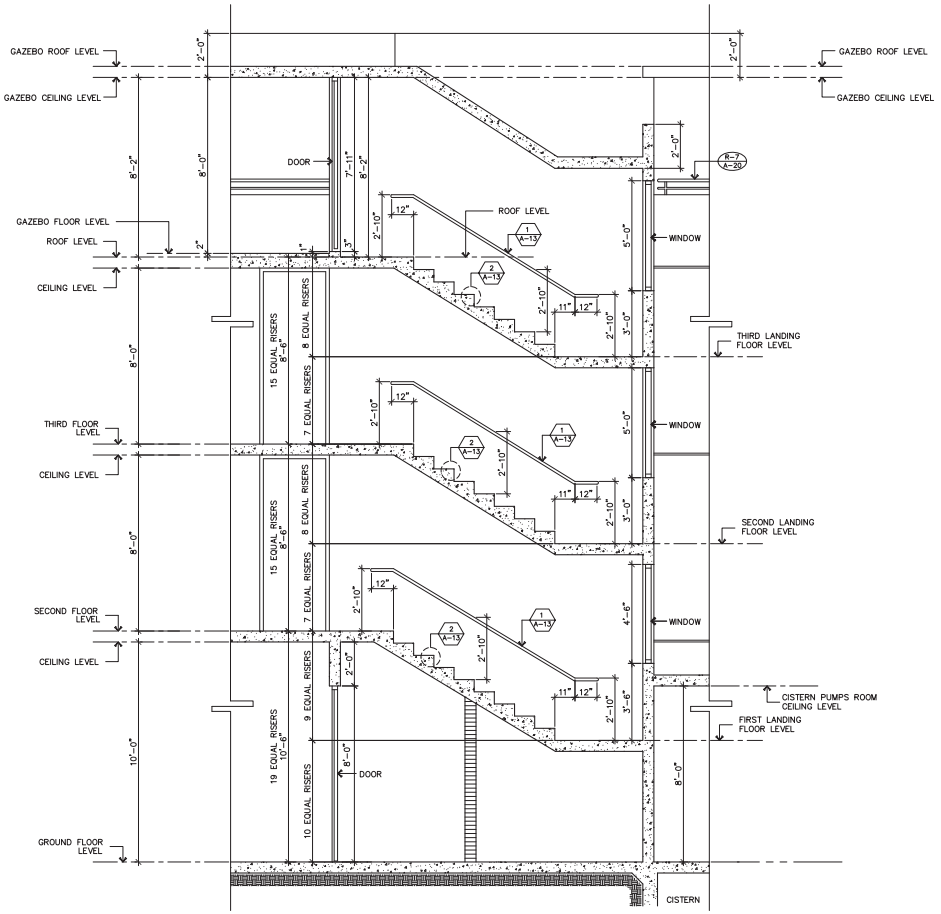
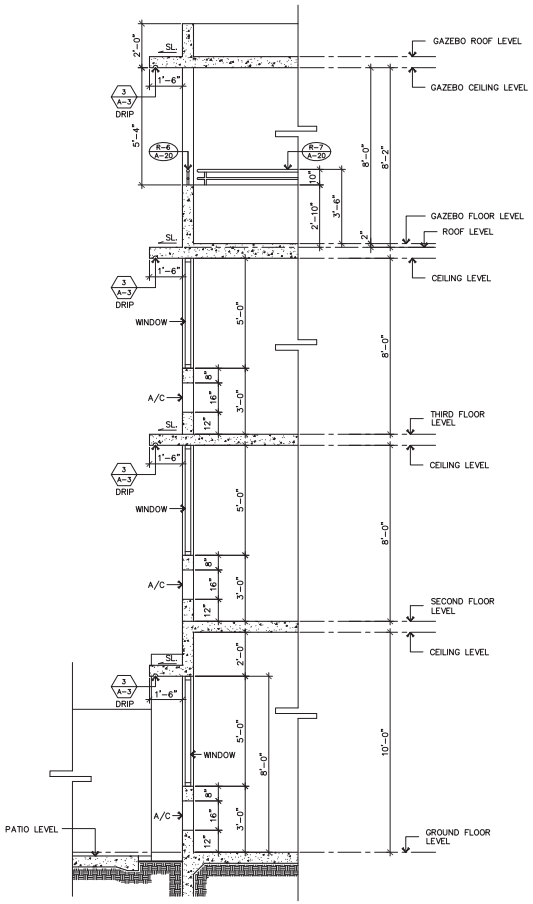
DRAWING TITLE
WALL SECTION 11

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-11 |
| DATE 12/07/2019 | |




WALL SECTION 12
SCALE: 3/8" = 1'-0"




WALL SECTION 13
SCALE: 3/8" = 1'-0"

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illssanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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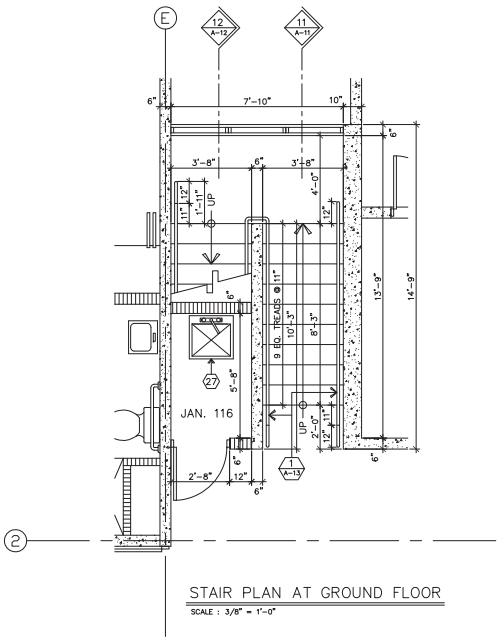
DRAWING TITLE
WALL SECTIONS
12 AND 13

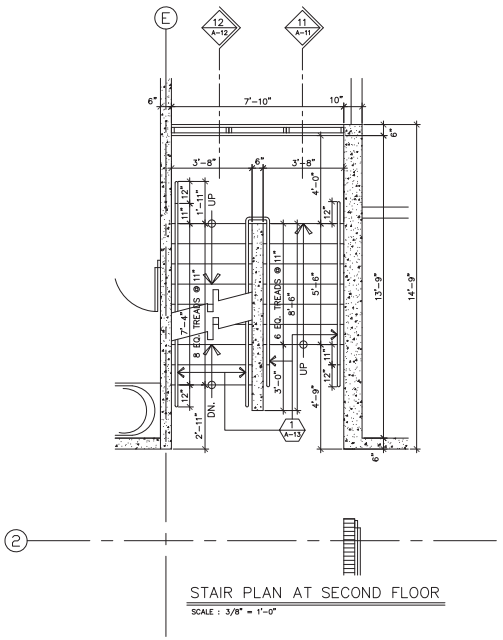
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-12 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó dichos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos y que asumo la responsabilidad profesional por los mismos. Entiendo además que cualquier error, omisión o violación a dicho Reglamento que se haga constar en estos planos y especificaciones, así como cualquier daño o perjuicio que se ocasione a terceros como consecuencia de la preparación o utilización de los mismos o falsificación de los hechos que en ellos se hayan producido por desconocimiento o por negligencia de mi parte, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la cual



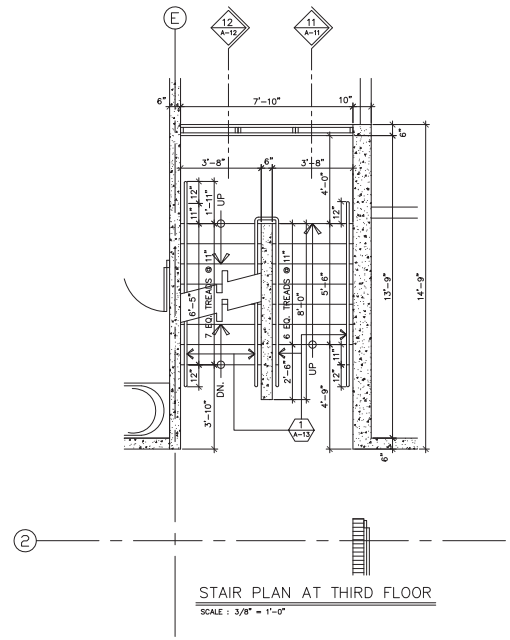

STAIR PLAN AT GROUND FLOOR

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



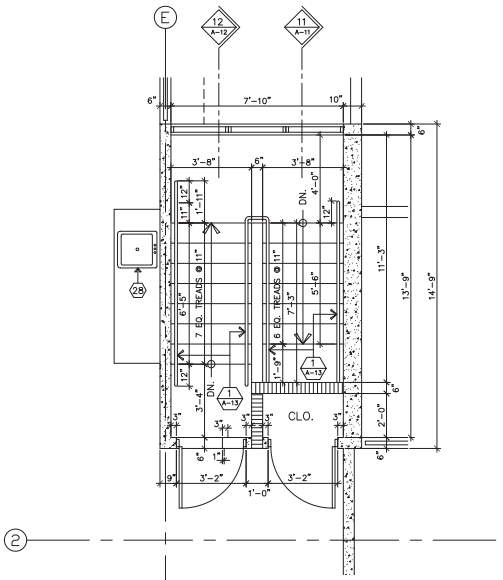

STAIR PLAN AT SECOND FLOOR

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



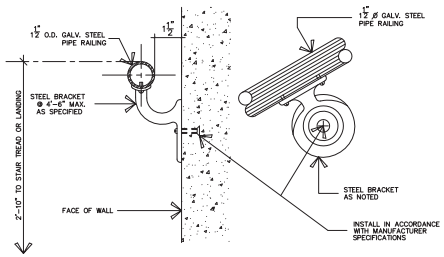

STAIR PLAN AT THIRD FLOOR

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



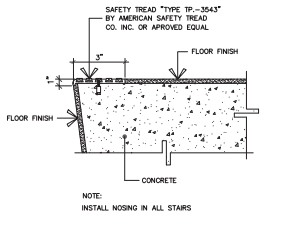

STAIR PLAN AT ROOF LEVEL

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



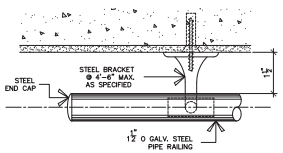

HANDRAIL DETAIL

N.T.S.




TREAD DETAIL 2 A-13

N.T.S.




TYPICAL HANDRAIL END CONDITION

N.T.S.

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8442, certifico que soy el profesional con conocimiento y/o dueño y/o preparé estos planos y las especificaciones complementarias. También certifico que archivo que dichos planos y especificaciones cumplen con las reglamentaciones aplicables vigentes y que no he delegado en otra persona mi responsabilidad profesional sobre los mismos. Cualquier alteración a estos planos o especificaciones sin mi autorización o aprobación escrita o por negligencia de mi parte, o por mi omisión o descuido, o por otras personas con mi conocimiento, no tengo responsabilidad de cualquier acción judicial y disciplinaria por la LCPA.

SANCHEZ ARANA ARQUITECTOS

J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illissanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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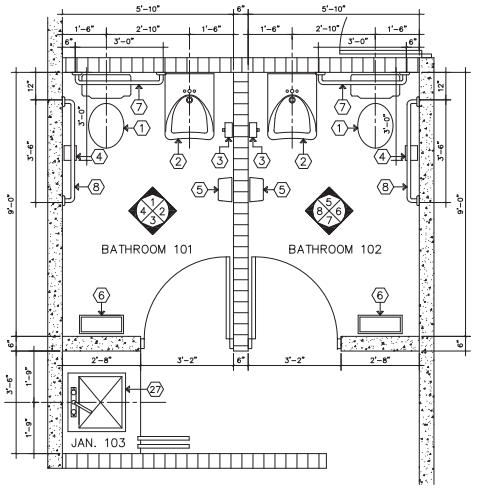
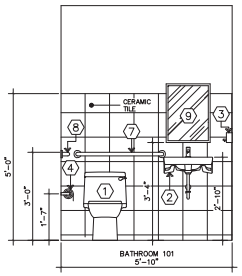
DRAWING TITLE
STAIR FLOOR PLANS AND HANDRAIL AND TREAD DETAILS

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-13 |
| DRAWN | |
| DATE 5/07/2019 | |



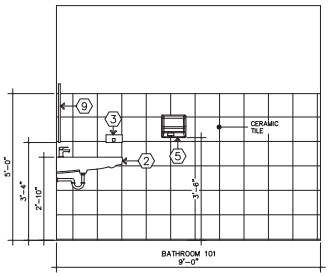

BATHROOMS 101 AND 102

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



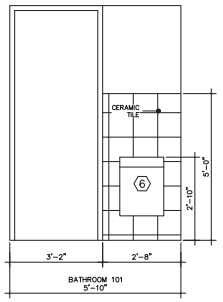

ELEVATION 1

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



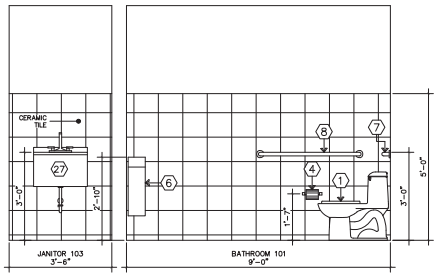

ELEVATION 2

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



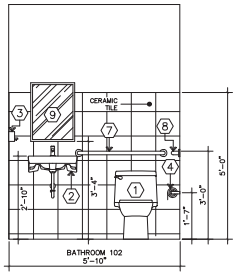

ELEVATION 3

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



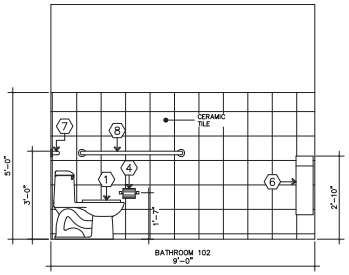

ELEVATION 4

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



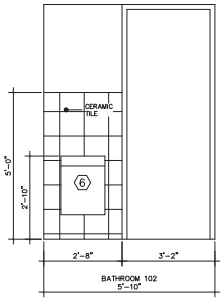

ELEVATION 5

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



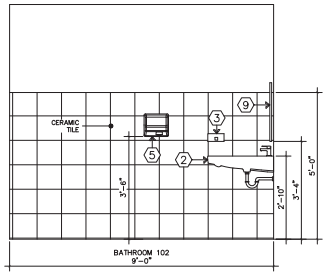

ELEVATION 6

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



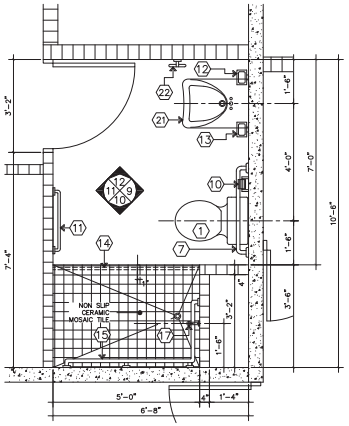

ELEVATION 7

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



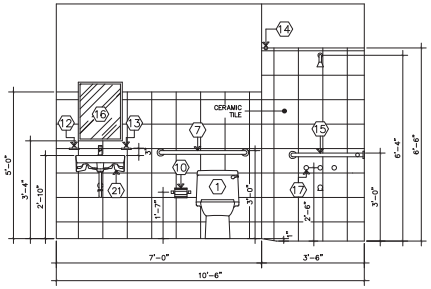

ELEVATION 8

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



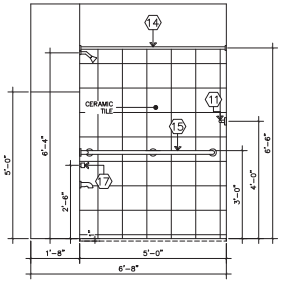

BATHROOM 110

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



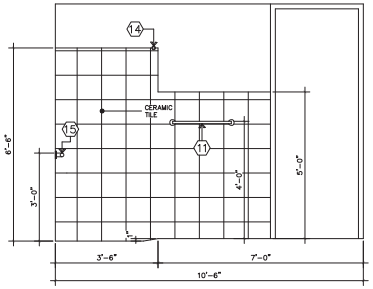

ELEVATION 9

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



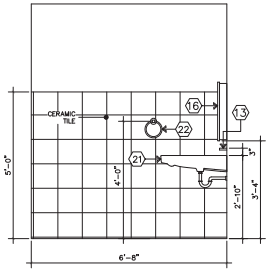

ELEVATION 10

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




ELEVATION 11

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




ELEVATION 12

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

**NOTA:**
Yo, Ilia Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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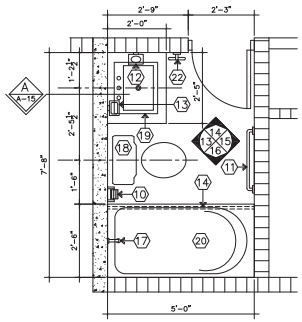
DRAWING TITLE

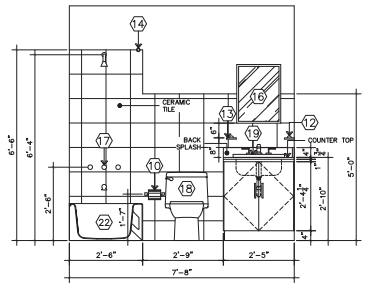
BATHROOMS 101, 102 AND 110
FLOOR PLANS AND ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-14 |
| DATE 5/07/2019 | |



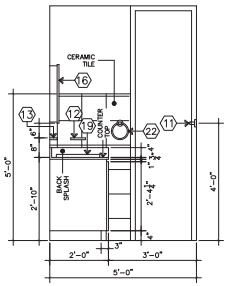
BATHROOMS 213, 215. 224 (MIRROR IMAGE)
313, 315 AND 324 (MIRROR IMAGE)

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



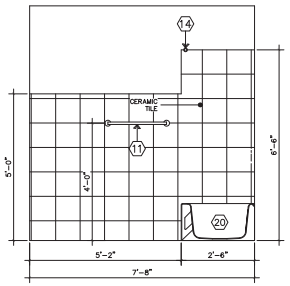
ELEVATION 13

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



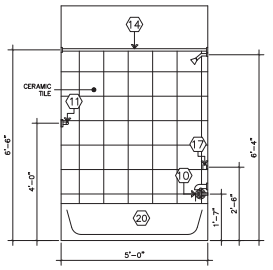
ELEVATION 14

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



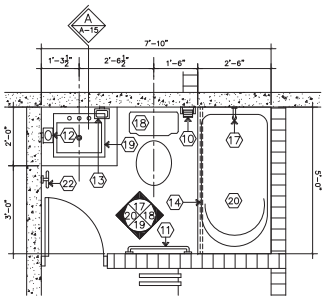
ELEVATION 15

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



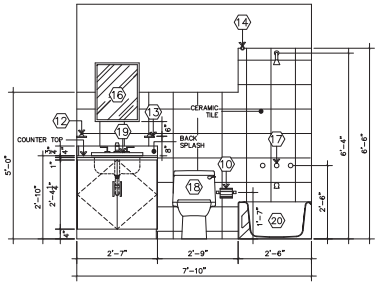
ELEVATION 16

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



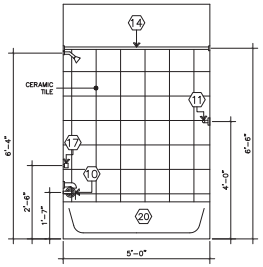
BATHROOMS 234 AND 334

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



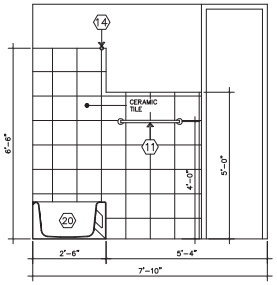
ELEVATION 17

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



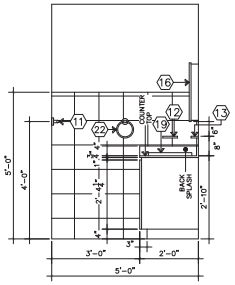
ELEVATION 18

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



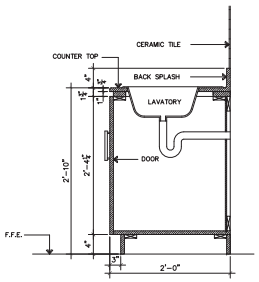
ELEVATION 19

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



ELEVATION 20

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



SECTION A

SCALE : 1" = 1'-0"

**SCHEDULE OF BATHROOM FIXTURES AND ACCESSORIES**

| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
|---|---|---|---|---|---|
| 1 | ADA COMPLIANT TOILET | AMERICAN STANDARD | CADET 3 270FA.101 | WHITE | 1.28 GPF FLUSHOMETER TOILET SYSTEM A.S. TOILET SEAT 5257A.65MT |
| 2 | ADA COMPLIANT LAVATORY | AMERICAN STANDARD | WHEELCHAIR USERS 9141.011 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2275.509 |
| 3 | SOAP DISPENSER | BOBRICK | B-2112 | SATIN S.S. | SURFACE-MOUNTED SOAP DISPENSER |
| 4 | TOILET TISSUE DISPENSER | BOBRICK | B-4288 | SATIN S.S. | SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER |
| 5 | HAND DRYER | AMERICAN DRYER | EXT7-C | STEEL SATIN CHROME | ECO FRIENDLY HAND DRYER |
| 6 | WASTE RECEPTACLE | BOBRICK | B-279 | SATIN S.S. | |
| 7 | GRAB BAR 36" | BOBRICK | B-6806 X 36 | SATIN S.S. | |
| 8 | GRAB BAR 42" | BOBRICK | B-6806 X 42 | SATIN S.S. | |
| 9 | TILT MIRROR | BOBRICK | B-293 1830 | SATIN S.S. | 18" X 30" TILT MIRROR WITH S.S. FRAME |
| 10 | TOILET PAPER HOLDER | MOEN | 5308CH | CHROME | YORKSHIRE SPRING LOADED PAPER HOLDER |
| 11 | TOWEL BAR | MOEN | 5324CH | CHROME | YORKSHIRE 24" TOWEL BAR |
| 12 | SOAP DISH | CROYDEX | QM201941 | CHROME | WESTMINSTER SOAP DISH |
| 13 | TOOTH BRUSH TUMBLER HOLDER | CROYDEX | QM201841 | CHROME | WESTMINSTER TUMBLER & HOLDER |
| 14 | SHOWER CURTAIN ROD | MOEN | TR1002CH | CHROME | TENSION CURTAIN SHOWER ROD |
| 15 | L SHAPED GRAB BAR | BOBRICK | B-68616 | SATIN S.S. | SHOWER COMPARTMENT BAR 24 X 36 |

**SCHEDULE OF BATHROOM FIXTURES AND ACCESSORIES**

| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
|---|---|---|---|---|---|
| 16 | MEDICINE CABINET | KOHLER | VERDERA K-99004-NA | N/A | W: 20", H: 26", D: 4 ½" |
| 17 | FAUCET & FITTINGS | AMERICAN STANDARD | RELIANT 3 TRIM KIT 7385.502 | CHROME | PROVIDE A.S. R120 SERIES PRESSURE BALANCE VALVE |
| 18 | TOILET | AMERICAN STANDARD | CADET 3 270FA.101 | WHITE | 1.28 GPF FLUSHOMETER TOILET SYSTEM A.S. TOILET SEAT 5257A.65MT |
| 19 | OVER THE COUNTER LAVATORY | AMERICAN STANDARD | RONDALYN 0491.019 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2175.502 |
| 20 | BATHTUB | AMERICAN STANDARD | NEW SALEM 0255 | WHITE | MODEL 0255.112 – RIGHT HAND OUTLET MODEL 0255.212 – LEFT HAND OUTLET |
| 21 | ADA COMPLIANT LAVATORY | AMERICAN STANDARD | WHEELCHAIR USERS 9141.011 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2175.502 |
| 22 | TOWEL RING | MOEN | 5386CH | CHROME | YORKSHIRE TOWEL RING |
| | | | | | |
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| | | | | | |

**NOTA:**
Yo, Ilia Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OSPA.


SANCHEZ ARANA ARQUITECTOS
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787-235-3670 illisanchezarana@yahoo.com 787-390-3788


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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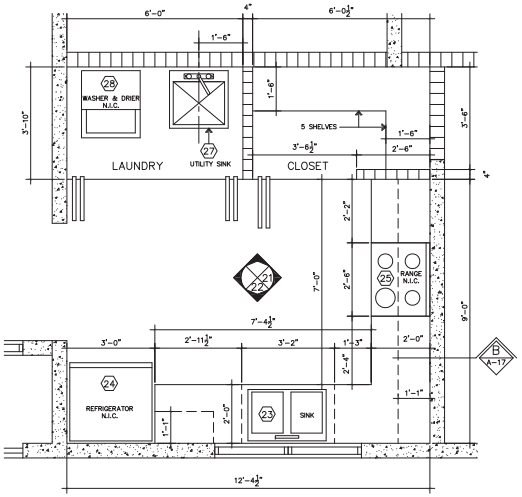
DRAWING TITLE

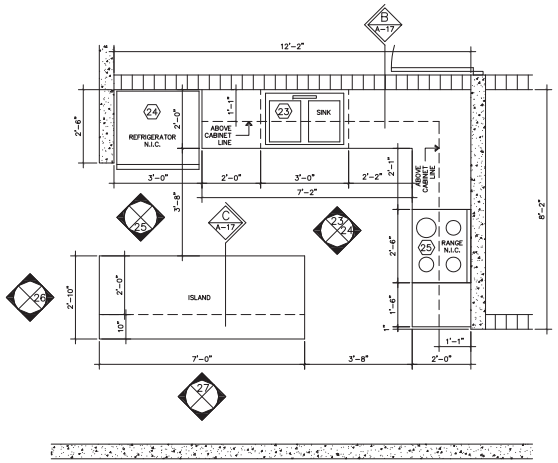
BATHROOMS 213, 215, 224, 313 315, 324, 234 AND 334 FLOOR PLANS AND ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-15 |
| DATE 7/07/2019 | |



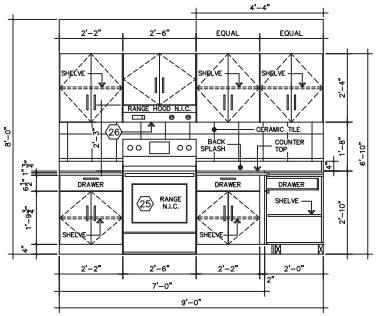

KITCHEN 105

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



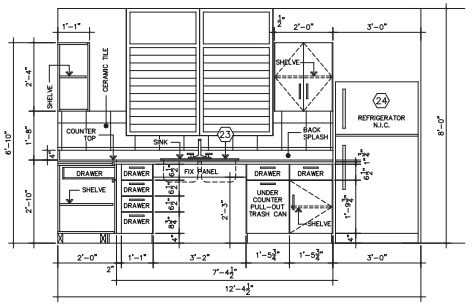

KITCHENS 206, 218 (MIRROR IMAGE), 306 AND 318 (MIRROR IMAGE)

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



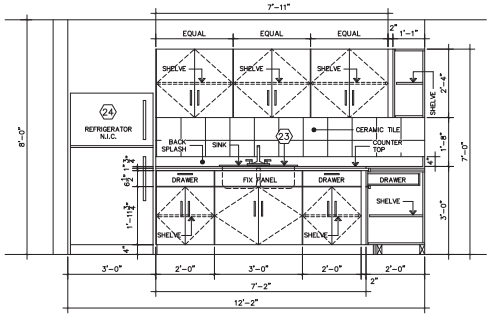

ELEVATION 21

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



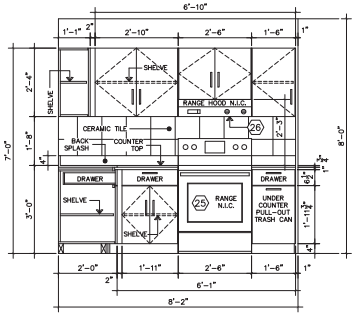

ELEVATION 22

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



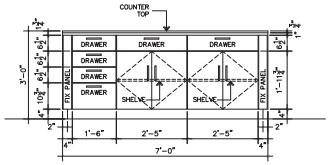

ELEVATION 23

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



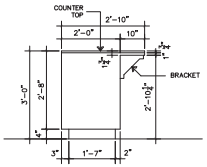

ELEVATION 24

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



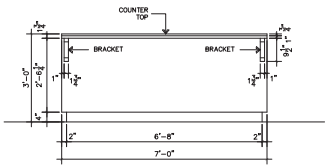

ELEVATION 25

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




ELEVATION 26

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




ELEVATION 27

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

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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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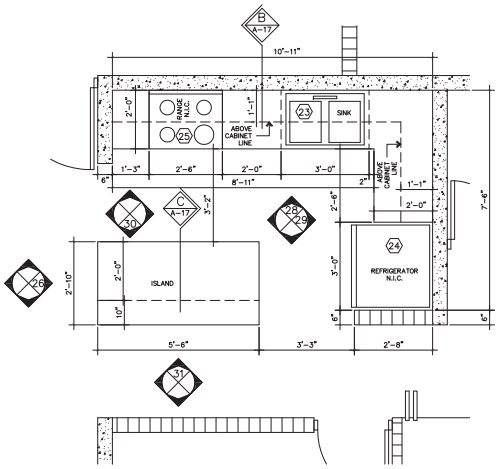
DRAWING TITLE
KITCHENS 106, 206,218, 306 AND 318 FLOOR PLANS AND ELEVATIONS

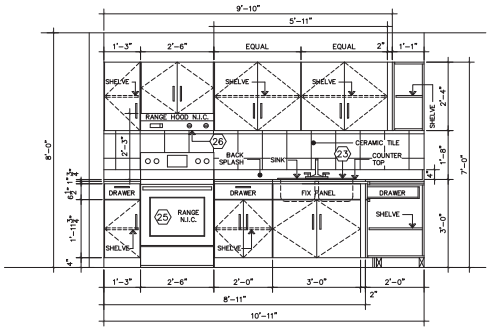
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-16 |
| DATE 5/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia #442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento o a cualquier otra ley o reglamento aplicable a la construcción de la obra. Además, certifico que he preparado estos planos y especificaciones de acuerdo a los estándares de mi profesión y que he cumplido con mi deber de diligencia en la preparación de los mismos. Finalmente, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico y que no tengo conflicto de interés en la preparación de estos planos y especificaciones. Por último, certifico que no he incurrido en fraude o en representación falsa en la preparación de estos planos y especificaciones y que no he omitido información esencial para la preparación de los mismos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Certifico además que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 119 de 30 de junio de 1976, según enmendada, conocida como la Ley para Garantizar el Derecho de las Personas con Impedimentos a Gozar de Facilidades Físicas Adecuadas en Edificios Públicos y Privados Abiertos al Público, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Finalmente, certifico que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 168 de 30 de agosto de 2000, según enmendada, conocida como la Ley para el Mejoramiento de la Vivienda, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Yo, Ilis Sánchez Arana, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico y que no tengo conflicto de interés en la preparación de estos planos y especificaciones. Por último, certifico que no he incurrido en fraude o en representación falsa en la preparación de estos planos y especificaciones y que no he omitido información esencial para la preparación de los mismos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Certifico además que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 119 de 30 de junio de 1976, según enmendada, conocida como la Ley para Garantizar el Derecho de las Personas con Impedimentos a Gozar de Facilidades Físicas Adecuadas en Edificios Públicos y Privados Abiertos al Público, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Finalmente, certifico que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 168 de 30 de agosto de 2000, según enmendada, conocida como la Ley para el Mejoramiento de la Vivienda, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias.



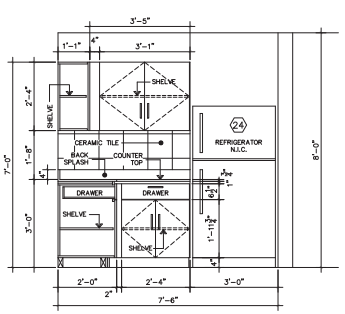

KITCHENS 228 AND 328

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



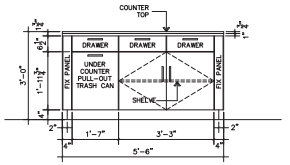

ELEVATION 28

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



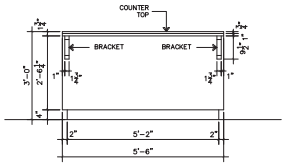

ELEVATION 29

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




ELEVATION 30

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




ELEVATION 31

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

## GENERAL MILLWORK NOTES

1- ALL WOOD MATERIAL WHETHER SOLID OR PLYWOOD SHALL BE TREATED AND KILN DRIED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS TT-W-570 AND TT-W-572.

2- ALL MATERIAL FOR ARCHITECTURAL WOODWORK SHALL BE TERMITE TREATED. ALL MOULDINGS BASE, GRILLED PANELS, FRAMES, AND OTHER SPECIFIED ELEMENTS SHAL RECEIVE SEALER AND PAINT AS SELECTED BY ARCHITECT.

3- ALL CABINET DOORS SHALL HAVE A CONCEALED HINGE EQUAL OR APPROVED EQUAL TO LIBERTY MODEL HC115FC-NP-C5.

4- ALL CABINET DRAWERS SHALL HAVE A SLIDE ON EACH SIDE EQUAL OR APPROVED EQUAL TO LIBERTY BALL BEARING DRAWER SLIDE.

5- ALL CLOSET AND STORAGE DOOR SHALL HAVE A CONTINUOUS PIANO HINGE EQUAL OR APPROVED EQUAL TO EVEBLIT CONTINUOUS HINGE.

6- CONTRACTOR SHALL COORDINATE THE SETTINGS OF ALL NECESSARY WOOD GROUNDS. CORNER CASINGS AND WOOD BLOCKING, WHICH WILL BE REQUIRED FOR THE EXECUTION OF THIS WORK.

7- COUNTER TOP SURFACES SHALL BE LAMINATED. PLASTIC LAMINATED EQ. OR APP. EQ. TO FORMICA 1816-58 FOG DUST MATTE FINISH.

8- SILICONE SEALANT SHALL BE USED TO CAULK AND SEAL UNDER THE SINK RIMS AND COUNTER TOP.

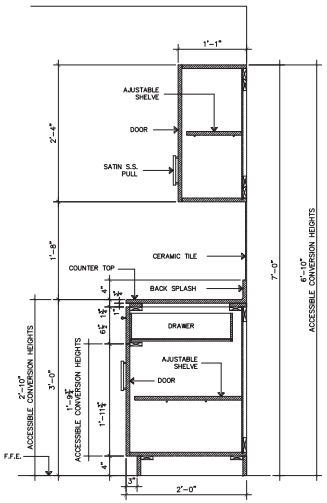
9- AT LEAST 3 CLIPS SHALL BE USED ON THE SIDES UNDER THE SINK RIMS.

10- ALL INTERIOR CABINET SURFACES SHALL BE FINISHED WITH AT LEAST ONE COAT LACQUER CLEAR OR VARNISH.

11- ALL EXPOSED SURFACES ON CABINETS SHALL BE PLASTIC LAMINATED, INCLUDING EDGES OF DOORS AND DRAWERS, PLASTIC LAMINATE EQ. OR APP. EQ. TO FORMICA 949-58 WHITE MATTE FINISH

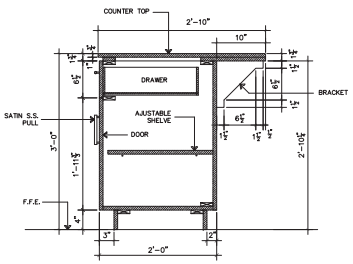
12- USE S.S. PULLS ON ALL CABINET DOORS AND DRAWERS, UNLESS OTERWISE NOTED.

13- SUBMIT, FOR THE APPROVAL OF THE ARCHITECT, SHOP DRAWINGS SHOWING LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE-SCALE DETAILS, ATTACHMENT DEVICES AND OTHER COMPONENTS.



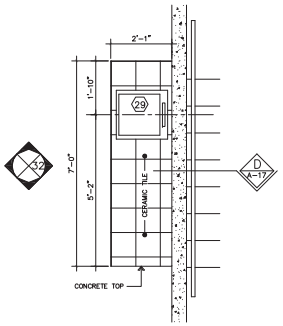

SECTION B

SCALE : 1" = 1'-0"



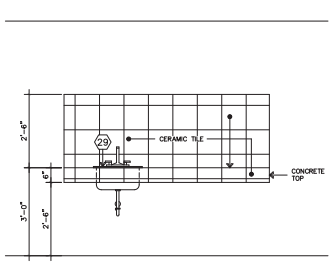

SECTION C

SCALE : 1" = 1'-0"



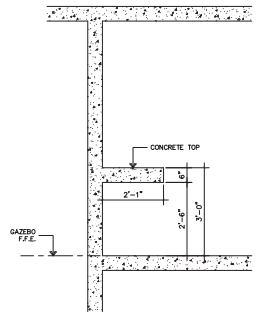

GAZEBO 401

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




ELEVATION 32

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




SECTION D

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

| SCHEDULE OF KITCHEN FIXTURES AND ACCESSORIES | | | | | |
|---|---|---|---|---|---|
| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
| 23 | KITCHEN SINK | ELKAY | LUSTERTONE LR3321 | S.S. | FAUCET: AMERICAN STANDARD COLONY CHOICE MODEL # 4175.700.F15 |
| 24 | REFRIGERATOR | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 25 | RANGE | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 26 | RANGE HOOD | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 27 | UTILITY SINK | MUSTEE | 19W UTILATUB | WHITE | FAUCET: MUSTEE MODEL NO. 93.600 |
| 28 | WASHER & DRIER | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 29 | KITCHEN SINK | ELKAY | LUSTERTONE LRD0202260 | S.S. | FAUCET: AMERICAN STANDARD COLONY CHOICE MODEL # 4175.700.F15 |
| | | | | | |
| | | | | | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que archivo que dichos planos y especificaciones cumplen con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que no he delegado mi responsabilidad profesional a terceras personas y que no autorizo a terceras personas a alterar estos planos y especificaciones. Cualquier alteración de los mismos o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, no me hacen responsable de cualquier acción judicial y disciplinaria por la LCPA.


SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illisanchezarana@yahoo.com 787-390-3788


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO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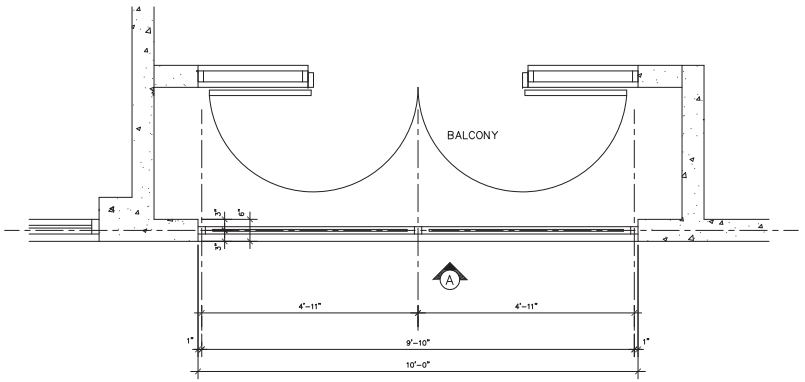
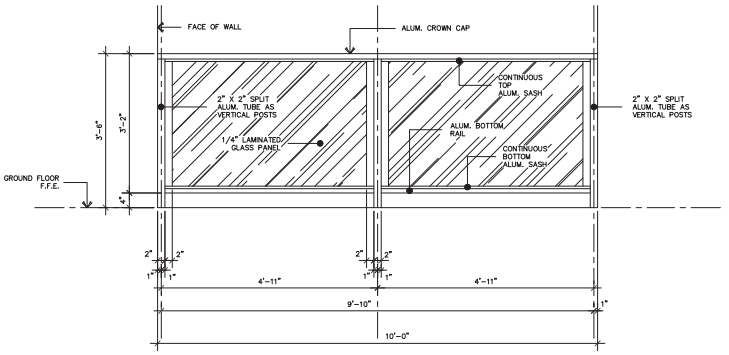
DRAWING TITLE

KITCHENS 228 AND 328
FLOOR PLANS AND ELEVATIONS
NOTES AND SCHEDULE

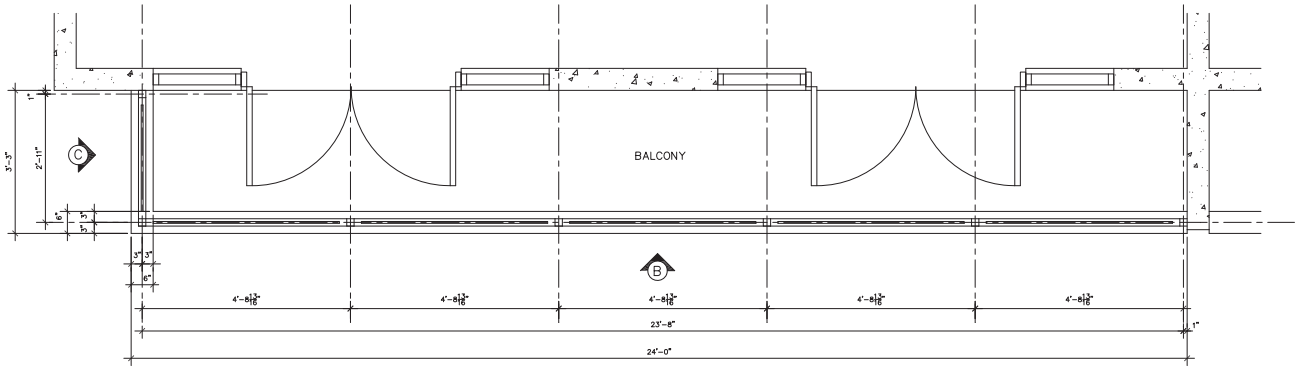
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-17 |
| DATE 5/07/2019 | |



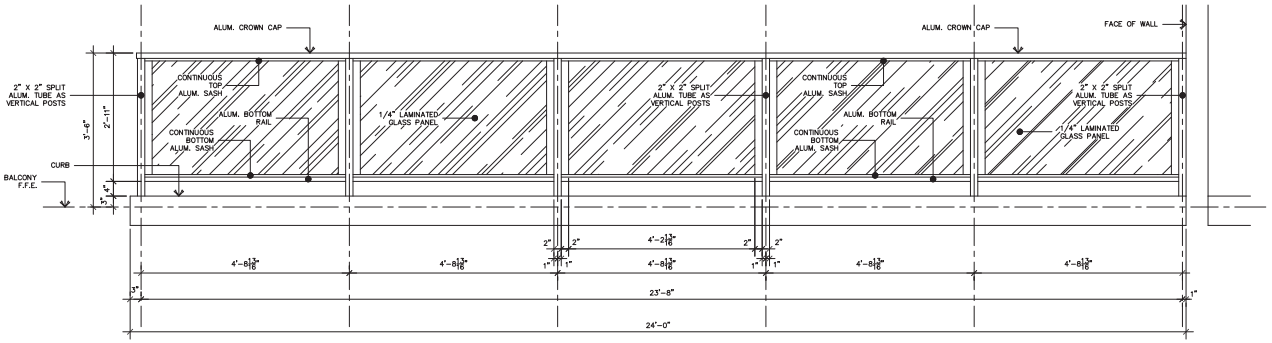

R-1 FLOOR PLAN
SCALE : 3/4" = 1'-0"



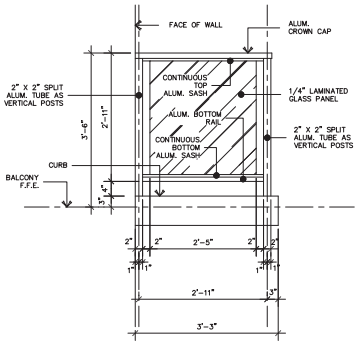

R-1 ELEVATION A
SCALE : 3/4" = 1'-0"




R-2 FLOOR PLAN
SCALE : 3/4" = 1'-0"




R-2 ELEVATION B
SCALE : 3/4" = 1'-0"




R-2 & R-4 ELEVATION C
SCALE : 3/4" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, ajimen de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento conjunto de permisos y/o Código de Construcción vigentes de la Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación sustancial a dichos planos y especificaciones durante el proceso de construcción, sin la aprobación correspondiente, podría conllevar la revocación de mi(s) licencia(s) profesional(es) por el CIPR.

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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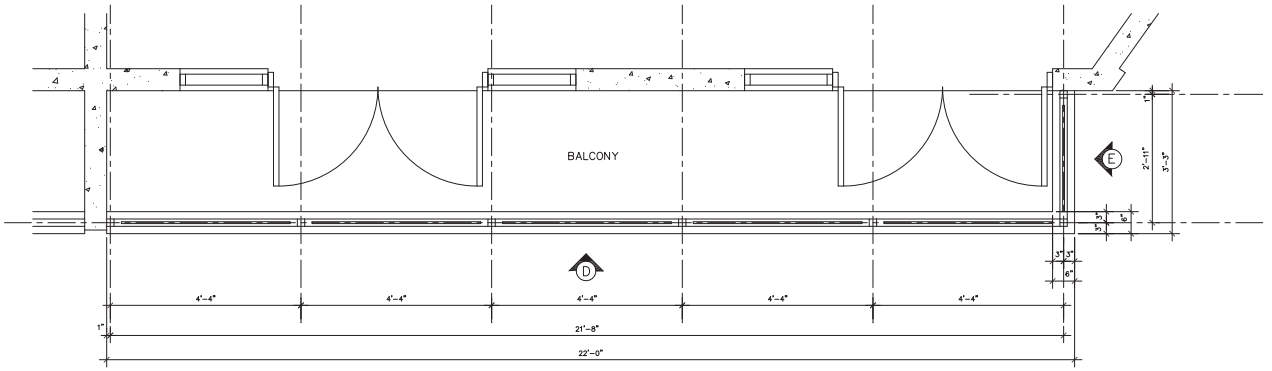
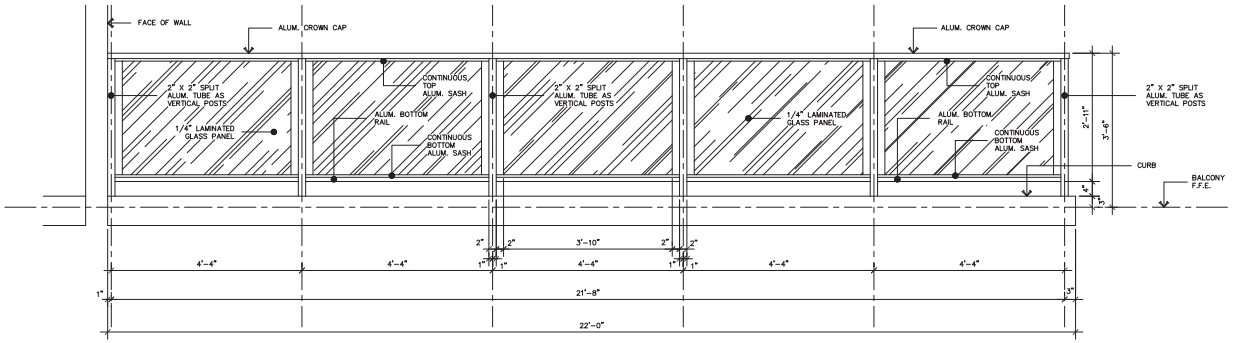
DRAWING TITLE
RAILINGS R-1 AND R-2
FLOOR PLANS AND ELEVATIONS

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-18 |
| DRAWN | |
| DATE 5/07/2019 | |



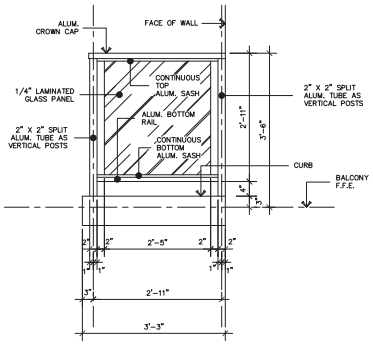

R-3 FLOOR PLAN

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



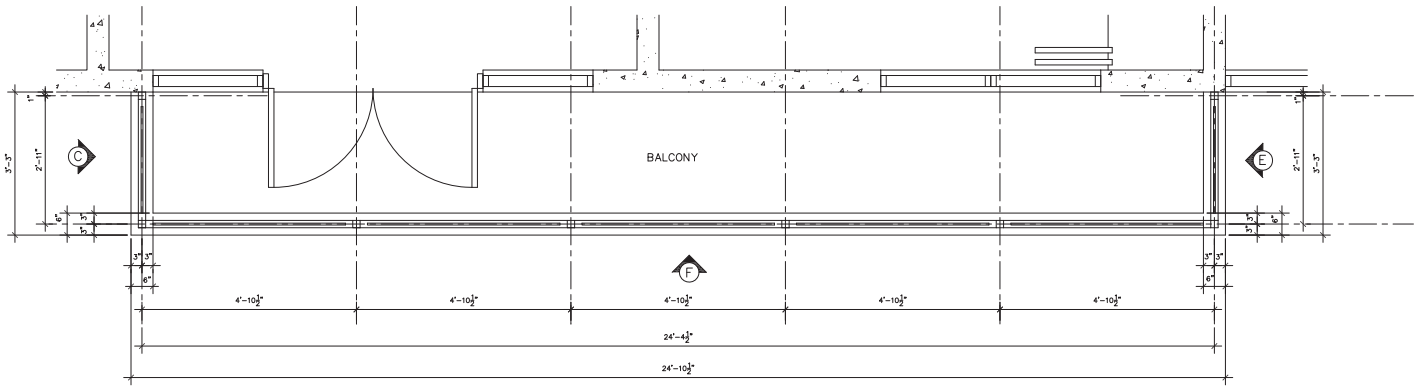

R-3 ELEVATION D

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




R-3 & R-4 ELEVATION E

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




R-4 FLOOR PLAN

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

NOTA:
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|---|---|---|---|

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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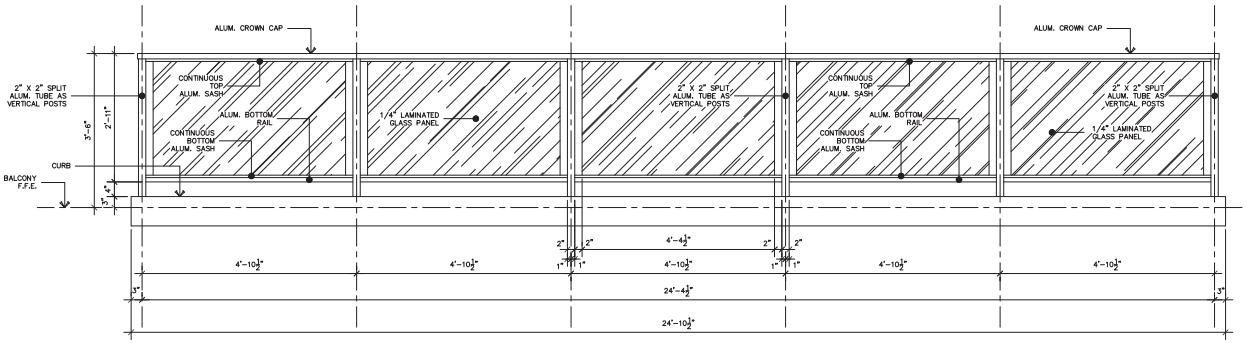
DRAWING TITLE

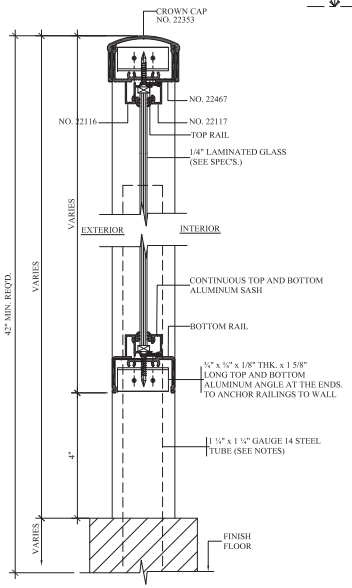
RAILING R-3 FLOOR PLAN
AND ELEVATIONS
AND RAILING R-4 FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-19 |
| DATE 5/07/2019 | |



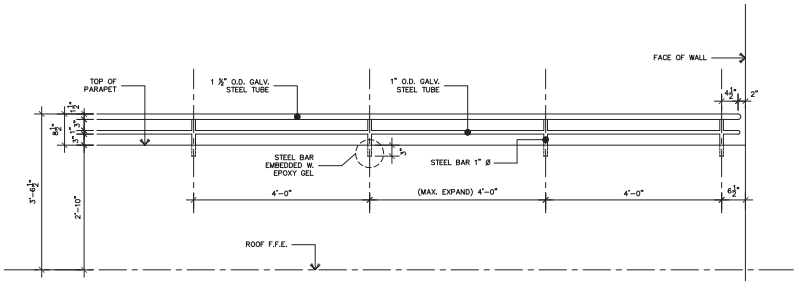

R-4 ELEVATION (F)

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



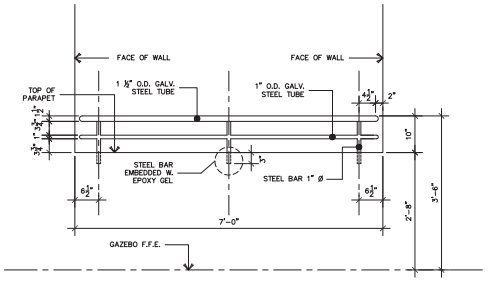

ALUMINUM AND GLASS BALCONY PICKET RAILING VERTICAL SECTION

N.T.S.



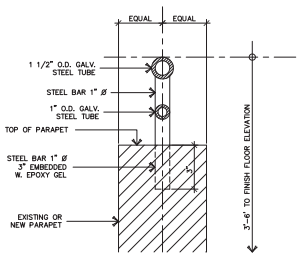

R-5 PARTIAL ELEVATION

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



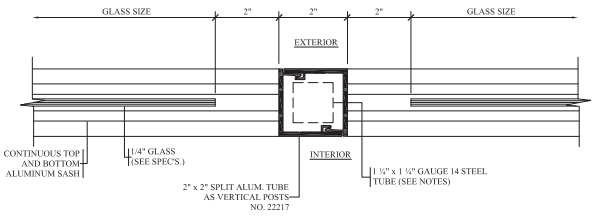

R-6 ELEVATION

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



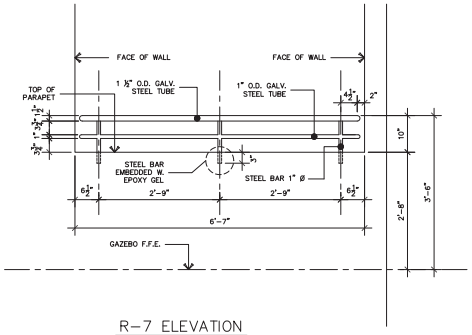

R-5, R-6 & R-7 VERTICAL SECTION

N.T.S.



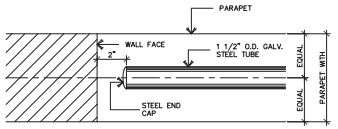

ALUMINUM AND GLASS BALCONY PICKET RAILING HORIZONTAL SECTION

N.T.S.




R-7 ELEVATION

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




R-5, R-6 & R-7 TYPICAL END DETAIL

N.T.S.

NOTA:
Yo, Ilis Sánchez Arana, ajimez de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento vigente y/o Código de Construcción vigente de la Jurisdicción, Ordenanzas y Comisiones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o disposiciones aplicables del Reglamento vigente y/o Código de Construcción vigente de la Jurisdicción, Ordenanzas y Comisiones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o engañosa en este documento, o en cualquier comunicación, de mi persona o compañía, a un alto oficial o empleado de la Jurisdicción, podría ser considerada como delito grave y/o delito menos grave y/o infracción administrativa y podría ser sancionada con una multa de $5,000.

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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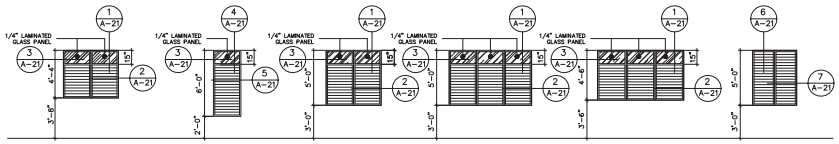
DRAWING TITLE

RAILINGS R-4, R-5, R-6 AND R-7 ELEVATIONS AND RAILINGS SECTIONS AND DETAIL

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-20 |
| DATE 5/07/2019 | |




## WINDOWS ELEVATIONS

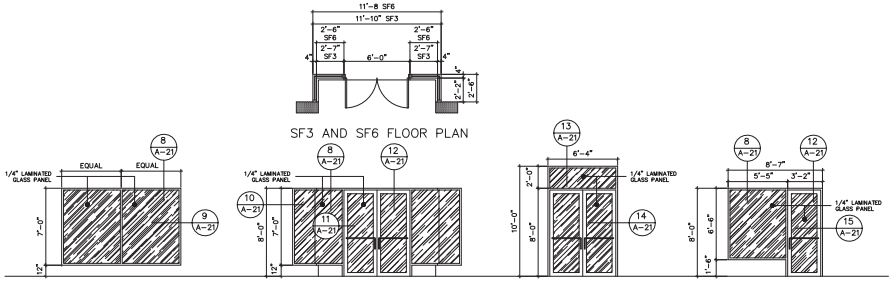
3/16" = 1'-0"

## WINDOW SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | UNITS | SILL HEIGHT | REMARKS |
|---|---|---|---|---|---|---|
| A | I | 5'-0" | 4'-4" | 2 | 5'-0" | |
| B | II | 2'-6" | 6'-0" | 1 | 2'-0" | SEE SOUTH ELEVATION AT SHEET A-5 |
| C | III | 5'-0" | 5'-0" | 2 | 3'-0" | |
| D | IV | 7'-6" | 5'-0" | 3 | 3'-0" | |
| E | VI | 4'-0" | 5'-0" | 2 | 3'-0" | |
| F | V | 7'-10" | 4'-6" | 3 | 3'-6" | |
| G | II | 2'-0" | 6'-0" | 1 | 2'-0" | SEE WEST ELEVATION AT SHEET A-5 |
| H | IV | 7'-10" | 5'-0" | 3 | 3'-0" | |
| I | IV | 8'-7" | 5'-0" | 3 | 3'-0" | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**WINDOWS NOTES :**

1. FINAL MASONRY AND WIDOWS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM JALOUSIE WINDOWS WITH UPPER FIXED GLASS PANEL SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALL ALUMINUM JALOUSIE WINDOW, 3" MASTER LOUVER OLD SAN JUAN TYPE.
3. ALUMINUM AND GLASS JALOUSIE WINDOWS WITH UPPER FIXED GLASS PANEL SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS WINDOW, 3" MASTER VIEW OLD SAN JUAN TYPE.
4. GALV. STEEL FIXED LOUVERS WINDOWS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER GALVANIZED STEEL 3" STEORM PROOF FIXED LOUVERS "Z" BLADE.
5. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
6. ALL WINDOWS SHALL BE PROVIDED WITH MANUFACTURER RECOMMENDED HARWARE.
7. ALL ALUMINUM SHALL HAVE POLYURETHANE POWDER BAKED FINISH; COLOR WHITE.
8. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
9. PROVIDE SCREENS FOR THE JALOUSIE WINDOWS.
10. U.O.N. ALL PART NUMBERS IN WINDOWS SECTIONS DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.




## STOREFRONTS ELEVATIONS

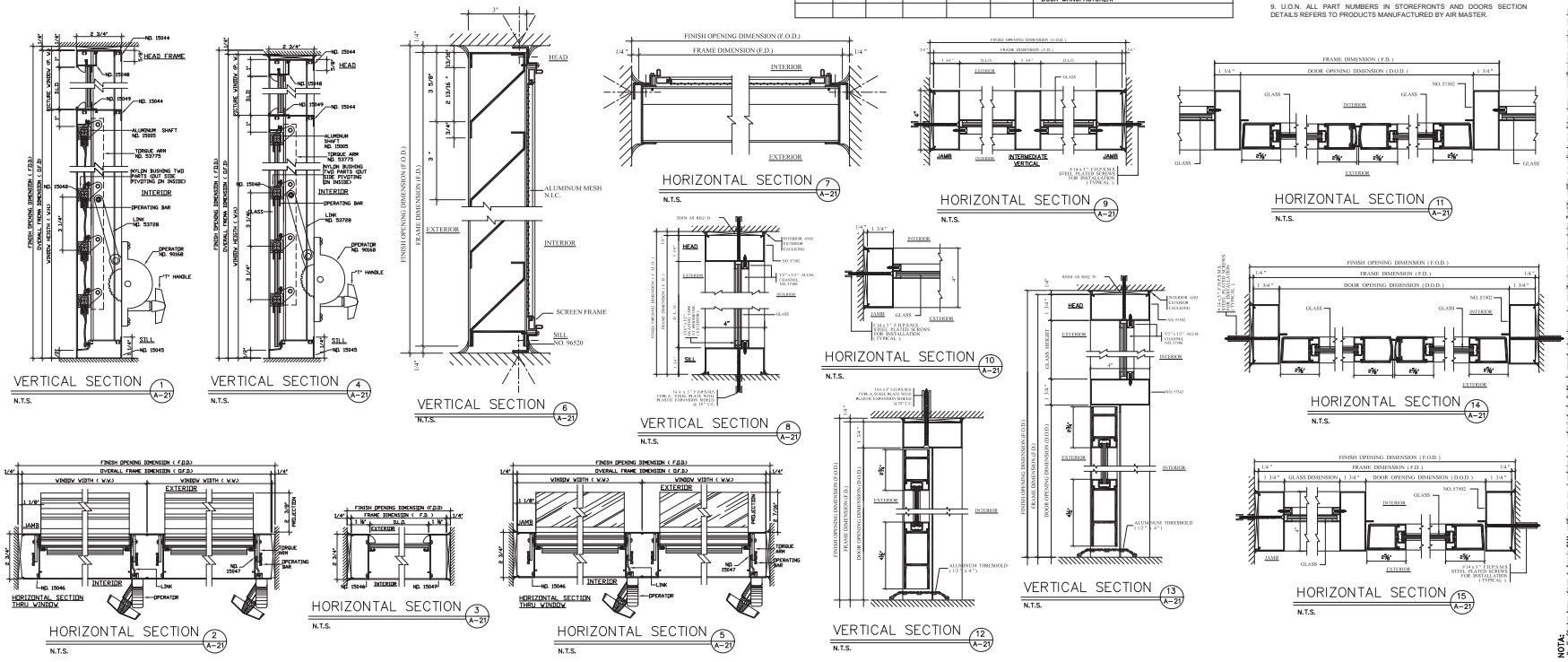
3/16" = 1'-0"

## STOREFRONT SCHEDULE

| MKD. | OPENING WIDTH | OPENING HEIGHT | UNITS | SILL HEIGHT | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| SF1 | 10'-4" | 7'-0" | 1 | 1'-0" | N/A | |
| SF2 | 10'-10" | 7'-0" | 1 | 1'-0" | N/A | |
| SF3 | – | – | 3 | 1'-0" | 9 | SEE SF3 FLOOR PLAN AND ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF4 | 7'-11" | 7'-0" | 1 | 1'-0" | N/A | |
| SF5 | 6'-4" | 7'-0" | 1 | 1'-0" | N/A | |
| SF6 | – | – | 3 | 1'-0" | 9 | SEE SF6 FLOOR PLAN AND ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF7 | 10'-8" | 7'-0" | 1 | 1'-0" | N/A | |
| SF8 | 6'-2" | 10'-0" | 2 | N/A | 10 | SEE SF8 ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF9 | 8'-7" | 8'-0" | 2 | 1'-6" | 11 | SEE SF9 ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| | | | | | | |

**STOREFRONTS NOTES :**

1. FINAL MASONRY AND STOREFRONTS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM AND GLASS STOREFRONTS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER 1 3/4" FIN TUBE FRAMING SYSTEM.
3. ALUMINUM AND GLASS DOORS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS NARROW STILE COMMERCIAL DOOR.
4. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
5. ALL ALUMINUM AND GLASS DOORS SHALL BE PROVIDED WITH MANUFACTURER RECOMMENDED HARWARE.
6. ALL ALUMINUM FINISH SHALL BE CLEAR ANODIZED.
7. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
8. ALL GLASS IN DOORS AND AT LEVEL BELOW 18" ABOVE F.F.E. SHALL BE SAFETY GLASS.
9. U.O.N. ALL PART NUMBERS IN STOREFRONTS AND DOORS SECTION DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.

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| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
WINDOWS AND STOREFRONTS SCHEDULES SECTIONS AND NOTES

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING A-21 |
| DRAWN | |
| DATE 5/07/2019 | |

NOTA:
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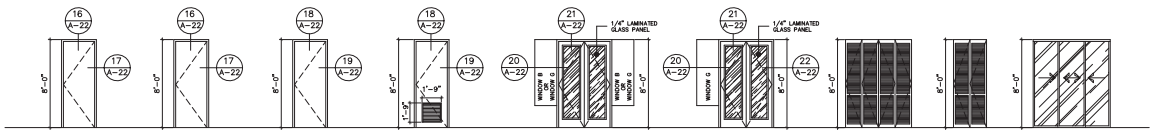



## DOORS ELEVATIONS

3/16" = 1'-0"

## GROUND FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 1 | C | 3'-2" | 8'-0" | 1 3/4" | 1 | |
| 2 | C | 3'-2" | 8'-0" | 1 3/4" | 2 | |
| 3 | D | 2'-8" | 8'-0" | 1 3/4" | 3 | |
| 4 | C | 3'-2" | 8'-0" | 1 3/4" | 2 | |
| 5 | D | 2'-8" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 6 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 7 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 8 | G | 6'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 9 | H | 3'-6⅝" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 10 | G | 6'-7" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 11 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 12 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 13 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 14 | I | 7'-10" | 8'-0" | – | – | |
| 15 | I | 6'-6" | 8'-0" | – | – | |
| | | | | | | |
| 16 | D | 3'-2" | 8'-0" | 1 3/4" | 7 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 17 | D | 3'-2" | 8'-0" | 1 3/4" | 7 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 18 | H | 3'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| | | | | | | |

## SECOND FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 19 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 20 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 21 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 22 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 23 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 24 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 25 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 26 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 27 | H | 3'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 28 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 29 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 30 | I | 9'-0" | 8'-0" | – | – | |
| 31 | I | 9'-0" | 8'-0" | – | – | |
| 32 | B | 3'-2" | 8'-0" | 1 3/8 | 6 | |
| 33 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 34 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 35 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 36 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 37 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 38 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 39 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 40 | I | 9'-0" | 8'-0" | – | – | |
| 41 | I | 9'-0" | 8'-0" | – | – | |
| 42 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 43 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 44 | F | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 45 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 46 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 47 | I | 7'-1" | 8'-0" | – | – | |
| 48 | H | 2'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 49 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 50 | G | 5'-8" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 51 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 52 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 53 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |

## THIRD FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 54 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 55 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 56 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 57 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 58 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 59 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 60 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 61 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 62 | H | 3'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 63 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 64 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 65 | I | 9'-0" | 8'-0" | – | – | |
| 66 | I | 9'-0" | 8'-0" | – | – | |
| 67 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 68 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 69 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 70 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 71 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 72 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 73 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 74 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 75 | I | 9'-0" | 8'-0" | – | – | |
| 76 | I | 9'-0" | 8'-0" | – | – | |
| 77 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 78 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 79 | F | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 80 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 81 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 82 | I | 7'-1" | 8'-0" | – | – | |
| 83 | H | 2'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 84 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 85 | G | 5'-8" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 86 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 87 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 88 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 89 | C | 3'-2" | 7'-11" | 1 3/4" | 8 | |
| 90 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |

**HARDWARE SCHEDULE :**

**Set # 1**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 475 | 26D | Sargent |

**Set # 2**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |

**Set # 3**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G37KB | 26D | Sargent |

**Set # 4**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | door viewer 975 | 26D | Trimco |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 5**

| | | | |
|---|---|---|---|
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 474 | 26D | Sargent |
| 1 each | double lever pull 65U94KB | 26D | Sargent |

**Set # 6**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4" X 4" | US26D | Hager |
| 1 each | lock set 65U65KB | 26D | Sargent |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 7**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65U65KB | 26D | Sargent |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 8**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 474 | 26D | Sargent |

**Set # 9**

| | | | |
|---|---|---|---|
| 1 each | mortise lock 8222 | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**Set # 10**

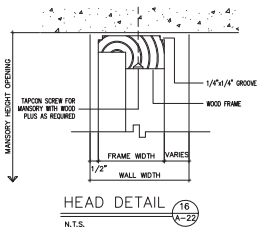
| | | | |
|---|---|---|---|
| 1 each | mortise lock 82711ZVDCTRB | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**Set # 11**

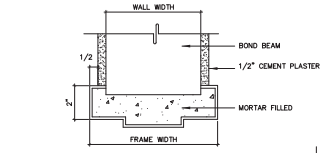
| | | | |
|---|---|---|---|
| 1 each | mortise lock 8206TRB | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**DOOR NOTES :**

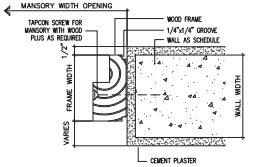
1. FINAL MASONRY AND DOORS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM AND GLASS DOORS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS CONTINENTAL SERIES FULL GLASS ENTRANCE DOOR FOURTH GENERATION. GLASS : 1/4" THICK LAMINATED GLASS
3. HOLLOW METAL DOORS SHALL BE EQUALS OR APROVED EQUALS AS STEELCRAFT L18 (FLUSH, 18 GAGE, 1 3/4" THICK).
4. HOLLOW METAL DOORS DOBLE RABBET STEEL FRAME SHALL BE EQUALS OR APROVED EQUALS AS STEELCRAFT F16, JAMB DEPTH 4 3/4".
5. SLIDING CLOSET DOORS WITH MIRROS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER BY-PASS SLIDING CLOSET DOOR WITH MIRROR.
6. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
7. ALL ALUMINUM SHALL HAVE POLYURETHANE POWDER BAKED FINISH; COLOR WHITE.
8. ALL HOLLOW METAL DOORS SHALL HAVE ENAMEL FINISH; COLORS TO BE SELECTED BY ARCH.
9. ALL WOOD DOORS SHALL HAVE WOOD VENEER ON ALL VISIBLE SURFACES.
10. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
11. ALL GLASS IN DOORS AND AT LEVEL BELOW 18" ABOVE F.F.E. SHALL BE SAFETY GLASS.
12. DOOR SCHEDULE DOES NOT INDICATE HAND FOR HARWARE. COORDINATE HARWARE HAND AS PER PLAN LAYOUTS.
13. U.O.N. ALL PART NUMBERS IN DOORS SECTIONS DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.



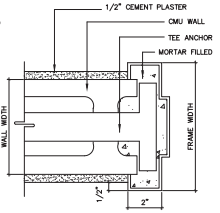

HEAD DETAIL 16 A-22
N.T.S.



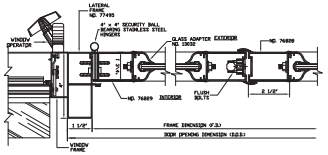

HEAD DETAIL 18 A-22
N.T.S.



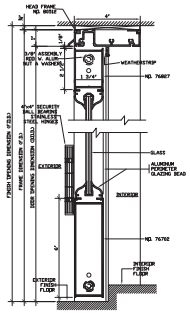

JAMB DETAIL 17 A-22
N.T.S.



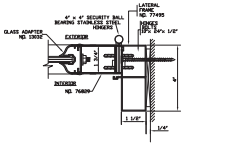

JAMB DETAIL 19 A-22
N.T.S.




HORIZONTAL SECTION 20 A-22
N.T.S.




VERTICAL SECTION 21 A-22
N.T.S.




HORIZONTAL SECTION 22 A-22
N.T.S.

NOTA:
Yo, la Sánchez Arana, número de licencia 8441, certifico que soy el profesional que preparó esta planta y las especificaciones complementarias. También certifico que estando que dichas planos y especificaciones cumplen con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que estando que dichas planos y especificaciones cumplen con las disposiciones del Reglamento para Regular la Práctica de la Profesión de Arquitectura y la Arquitectura Paisajista en Puerto Rico. Entiendo que cualquier alteración a estos planos y especificaciones o cualquier uso de los mismos sin mi consentimiento o participación profesional, o cualquier falsificación de los hechos que se haya producido por desconocimiento o por negligencia en mi parte por mi, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ODPA.

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 lilisanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
DOORS SCHEDULE,SECTIONS HARDWARE SCHEDULE AND NOTES

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-22 |
| DRAWN | |
| DATE 5/07/2019 | |

## GROUND FLOOR FINISH SCHEDULE :

**AREAS MKD. 100 (COMMERCIAL SPACE) AND 103 (JANITOR)**

FLOOR : BROOM CEMENT

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 101 (BATHROOM) AND 102 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : WALL CERAMIC TILE UP TO 5'-0" A.F.F., REMAINING WALL UP TO CEILING TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 1-A**

**AREAS MKD. 104 (LIVING / DINNING), 106 (LAUNDRY), 107 (CLO.) 109 (CORRIDOR AND CLO.), 111 (BEDROOM), 112 (BEDROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 105 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 108 (BALCONY)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 110 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

SHOWER FLOOR : ANTISLIP MOSAIC TILE 2" X 2"

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-14.

CEILING : TO BE PAINTED.

**AREAS MKD. 113 (ENTRANCE TO APARTMENTS), 114 (LOBBY), 115 (CLO.) 116 (JANITOR)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 117 (STAIR)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

BULLNOSE : ANTISLIP CERAMIC BULLNOSE

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 118 (CISTERN PUMPS ROOM) AND 119 (METER BANK CLO.)**

FLOOR : POLISHED CEMENT

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 120 (GARDEN PLAZA)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 12" X 24" X 10 MM (INTEGRAL)

WALLS : TO BE PAINTED.

**AREA MKD. 121 (CONCRETE PAVED PATIO)**

FLOOR : TROWELED CONCRETE, PATTERN OF JOINTS TO BE INDICATED BY THE ARCHITECT.

WALLS : TO BE PAINTED.

**AREAS MKD. 122 (ENTRANCE) AND 123 (ENTRANCE)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 12" X 24" X 10 MM (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

## SECOND FLOOR FINISH SCHEDULE :

**AREAS MKD. 201 (LOBBY), 202 (CLO.), 203 (CLO.) AND 204 (CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 2-A**

**AREAS MKD. 205 (CORRIDOR), 207 (LIVING / DINNING), 209 (BEDROOM) 210 (BEDROOM), 211 (BEDROOM), 212 (WALK-IN CLO.), 214 (LAUNDRY) AND 216 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 206 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 208 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 213 (BATHROOM) AND 215 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 2-B**

**AREAS MKD. 217 (CORRIDOR), 219 (LIVING / DINNING), 221 (BEDROOM) 222 (BEDROOM), 223 (LAUNDRY) AND 225 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 218 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 220 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 224 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 2-C**

**AREAS MKD. 226 (LIVING / DINNING), 229 (CORRIDOR), 230 (BEDROOM) 231 (BEDROOM), 232 (WALK-IN CLO.), 233 (LAUNDRY) AND 235 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 228 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-17.

CEILING : TO BE PAINTED.

**AREA MKD. 227 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 234 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

## THIRD FLOOR FINISH SCHEDULE :

**AREAS MKD. 301 (LOBBY), 302 (CLO.), 303 (CLO.) AND 304 (CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 3-A**

**AREAS MKD. 305 (CORRIDOR), 307 (LIVING / DINNING), 309 (BEDROOM) 310 (BEDROOM), 311 (BEDROOM), 312 (WALK-IN CLO.), 314 (LAUNDRY) AND 216 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 306 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 308 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 313 (BATHROOM) AND 315 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 3-B**

**AREAS MKD. 317 (CORRIDOR), 319 (LIVING / DINNING), 321 (BEDROOM) 322 (BEDROOM), 323 (LAUNDRY) AND 325 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 318 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 320 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 324 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 3-C**

**AREAS MKD. 326 (LIVING / DINNING), 329 (CORRIDOR), 330 (BEDROOM) 331 (BEDROOM), 332 (WALK-IN CLO.), 333 (LAUNDRY) AND 335 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 328 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-17.

CEILING : TO BE PAINTED.

**AREA MKD. 327 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 334 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

## ROOF FINISH SCHEDULE :

**AREA MKD. 401 (GAZEBO)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

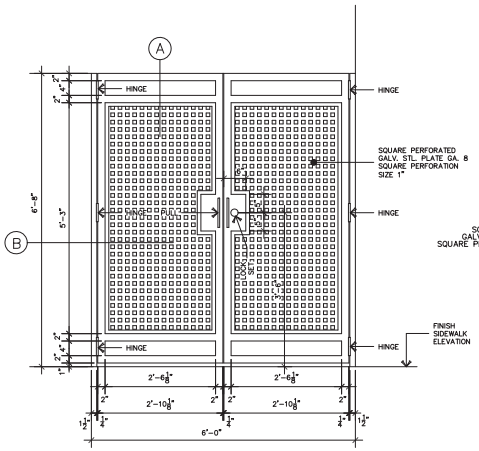
WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 402 (ROOF)**

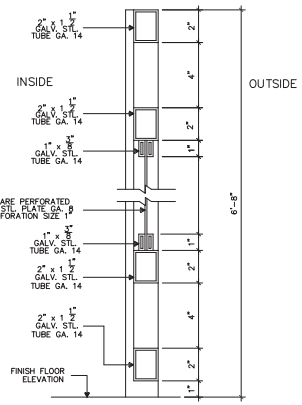
FLOOR : VULKEN 350NF (PEDESTRIAN AND WATERPROOFING SYSTEM BY TREMCO)

PARAPETS : VULKEN 350NF



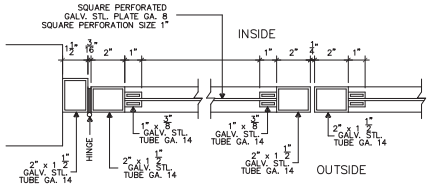

G-1 ELEVATION

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




G-1 SECTION A

N.T.S.




G-1 SECTION B

N.T.S.

**NOTA:**
Yo, Ilis Sánchez Arana, ojiplano de licencia #441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento conjunto de Permisos y/o Código de Construcción vigente y de las Normas, cartas circulares y Consecuentes Pública en un periódico. Asimismo, que cualquier desviación de estos planos y especificaciones será informada, por escrito, a la Administración de Reglamentos y Permisos y/o a la persona o entidad a la cual se le expida el permiso de construcción, y que dicha desviación será sometida para su aprobación.

SANCHEZ ARANA ARQUITECTOS

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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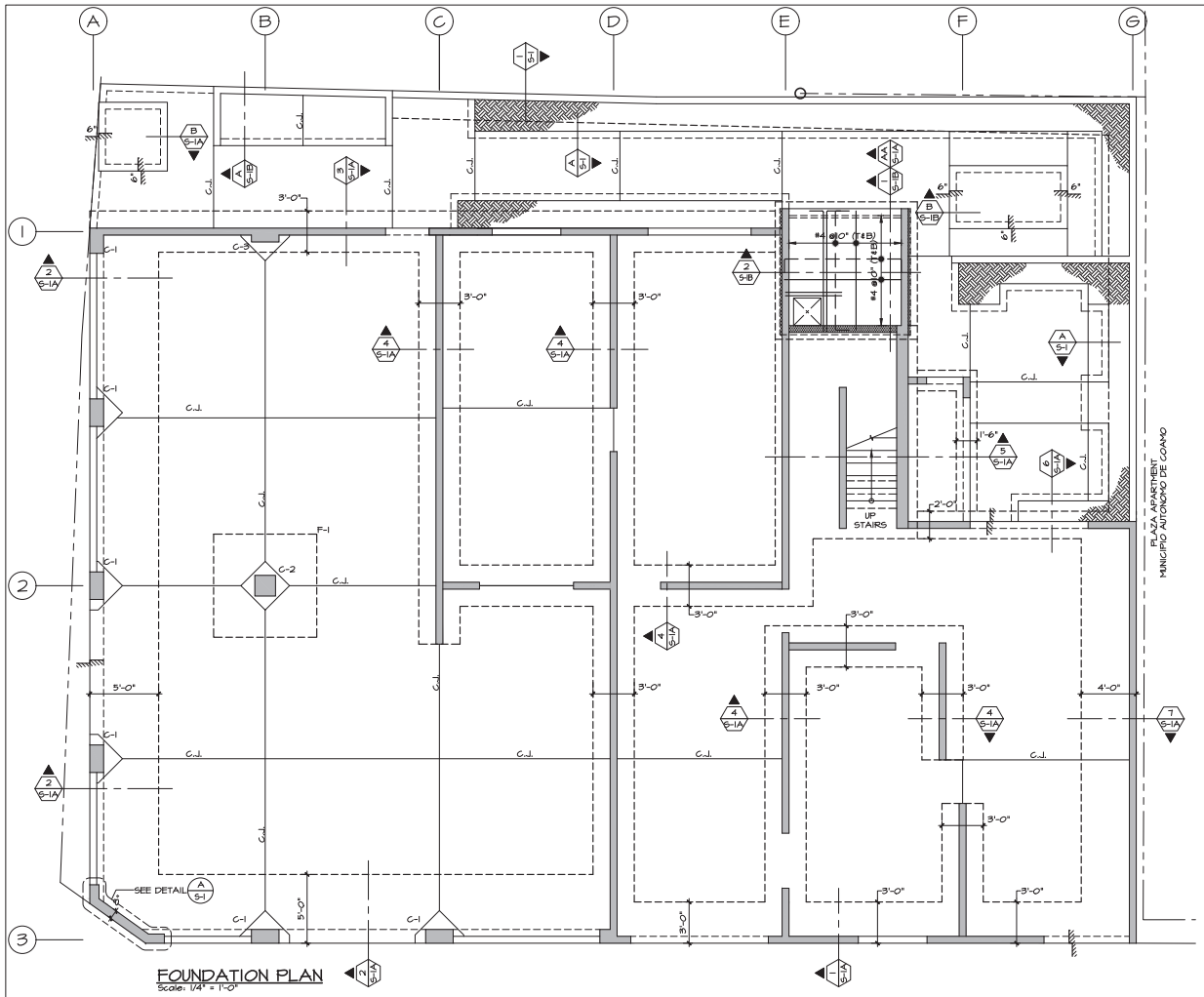
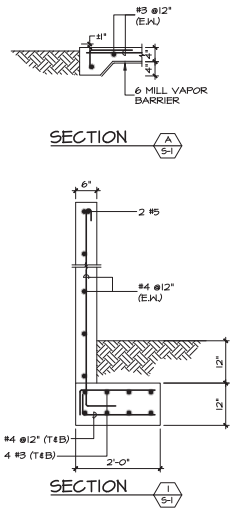
DRAWING TITLE
FINISH SCHEDULE AND GATE G-1 ELEVATION AND SECTIONS

| PROJECT | SHEET NO. OF |
|---|---|
| DESIGNED S.A.A. | DRAWING A-23 |
| DRAWN | |
| DATE 5/07/2019 | |




## FOUNDATION PLAN

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




## STRUCTURAL NOTES

### A. Special Notes

1. Contractor to coordinate all dimensions and details with architectural and mechanical drawings. All conflicts or discrepancies are to be called to the attention of Architect and/or ASD Engineer in timely manner so as to avoid work disruption.
2. Shop Drawings shall not be reproduced, in whole or in part, of drawings prepared by ASD but shall be prepared entirely by manufacturer, fabricator or installer based on information within these drawings. All shop drawings shall be submitted by General Contractor to ASD Engineer.
3. All test for construction materials must be supervised by certified testing laboratory and the result shall be submitted by General Contractor to ASD Engineer.

### B. Foundations

1. Soil Pressure
   a. 4,000 psf as per soil report prepared for this project by Victor E. Rivera Associates (14-4458) dated May 14,2019. This report forms integral part of these drawings and its recommendations shall be strictly followed.

### C. Reinforced Concrete & Reinforced steel

1. All Concrete shall develop a 28 day compressive strength of 3,000 psi.
2. Maximum water/cement ratio (W/C) shall not exceed .65.
3. Nominal maximum size of coarse aggregate shall be not larger than:
   a. $\frac{1}{5}$ the narrowest dimensions between sides of forms nor,
   b. $\frac{3}{4}$ the minimum clear spacing between individual reinforcing bars or wires, bundles of bars, or prestressing tendons or ducts.
4. All reinforcing steel bars shall be new billet deformed high strength grade steel conforming to ASTM A-615 latest edition Fy=60,000 psi), except (1) the maximum yield strength shall be 78,000 psi and (2) the tensile strength shall be not less than 1.25 the actual yield strength.
5. Steel protection shall be as follows:
   a) Footings
      I. Side and Bottom 3"
      II. Top 2"
   b) Walls
      I. Pour against earth 3"
      II. Exposed to earth or weather
         ¾" up to #5
         2" for #6 and larger
      III. Not exposed to earth or weather
         ¾" up to #11
         1½" for #14 and larger
   c) Slabs and joists
      ¾" up to #11
      1½" for #14 and larger
   d) Beams and Columns 1½"
6. Dowels shall be same size and number as wall or column vertical reinforcement embedded 42 diameters into footing and 48 diameters above it. (Unless Noted)
7. Lap all splices in walls and foundation wall 52 diameters; in beams use tension splice; all horizontal bars in beams, walls and foundation walls shall be bent at least 2'-0" beyond corners. (Unless Noted)
8. Reinforce concrete walls as follows (Unless Noted)
   6" Walls #4 @12" (E.W.)
   8" Walls #4 @8" (E.W.)
9. Provide 2 #5 vertical reinforcement, at each wall end (Unless Noted)
10. All openings in concrete walls and slabs shall be reinforced with 2 #5 bars placed 2" from the face and extending 2'-0" beyond corners (Unless Noted).
11. All slab on grade shall be 4" thick reinforced with #3 @12" (E.W.).
12. All one way slabs shall have temp. reinf. As follows: 0.18% of sectional area (including integral topping). t=5" use #3 @12", t=6" use #3 @10" and t=7" use #3 @8".

### D. Masonry Walls

1. Concrete masonry units shall be Type N-1 with compressive strength of 1,350 psi and shall meet the requirements of ASTM C140-75.
2. Mortar shall be Type M and shall meet the requirements of ASTM C270-87a.
3. Grout shall be meet the requirements of ASTM C476-83 with a slump of 9" with a compressive strength of 2,000 psi.
4. All cells with vertical reinforcement shall be filled with grout.
5. Horizontal reinforcement shall be Truss Type.
6. Unless otherwise noted reinforce masonry walls as follows:

| CMU Thick. | Vertical Reinf. | Horizontal Reinf. |
|---|---|---|
| 6" | #5 @16" or #4 @32" | Dur-O-Wal STD Every Course |
| 8" | #5 @32" or #6 @48" | Dur-O-Wal Extra Heavy Every Course |

7. All wall corners shall be masonry bonded.

### E. Design Loads

1. Live Loads
   a) Roof 20 psf
   b) Stairs 100 psf
   c) Housing 40 psf
2. Wind Loads
   a) As per ANSI/ASCE 7-2016
3. Seismic Loads
   a) As per IBC-2018

### F. Applicable Codes

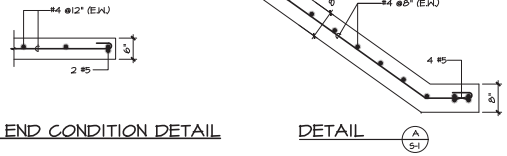
1. ACI 318-2018
2. IBC-2018
3. ANSI/ASCE 7-2016

## LEGEND:

- CONC. WALL OR COL. ABOVE & BELOW
- CONC. WALL OR COL. BELOW ONLY
- CONC. WALL OR COL. ABOVE ONLY
- MASONRY WALL CONCRETE TO BE CASTED AFTER SLAB ABOVE BE CASTED AND CURRED

## ABBREVIATIONS:

| | | | |
|---|---|---|---|
| (B) | BOTTOM REINFORCEMENT | CONT. | CONTINUOS |
| B.F.E. | BOTTOM FOOTING ELEVATION | E.B.P. | ELASTOMERIC BEARING PAD |
| C-1 | COLUMN NUMBER | E.F. | EACH. FACE |
| C.J. | CONSTRUCTION JOINT | E.J. | EXPANSION JOINT |
| CL. | CLEAR | E.W. | EACH WAY |
| C.S.C.J. | CONTROL SAW CUT JOINT | F-1 | FOOTING NUMBER |
| F.F. | FAR FACE | (TEMP.) | TEMPERATURE REINFORCEMENT |
| F.F.E. | FINISH FLOOR ELEVATION | TYP. | TYPICAL |
| H | STANDARD HOOK | P.E.M. | PREMOLDED EXPANSION MATERIAL |
| N.F. | NEAR FACE | S.O.F. | STEP ON FOOTING |
| (T) | TOP REINFORCEMENT | T = 4" | SLAB THICKNESS |




WALL END CONDITION DETAIL

DETAIL A S-1


ASD
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STRUCTURAL ENGINEER
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EMAIL : ASDSTRUCTURES@HOTMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019



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RIO PIEDRAS, P.R. 00920
TEL.(787)782-4436, 782-4437


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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC #9435
PUERTO RICO


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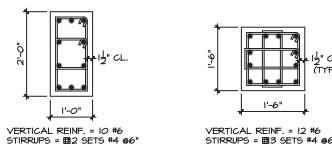
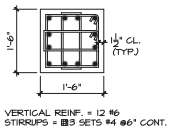
**DRAWING TITLE**
FOUNDATION PLAN, STRUCTURAL NOTES, SECTIONS & DETAILS

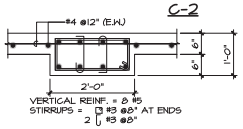
| | |
|---|---|
| PROJECT | SHEET NO. 00 OF 00 |
| DESIGNED | DRAWING S-1 |
| DRAWN K. YAMBO | |
| DATE 05-28-2019 | |




C-1

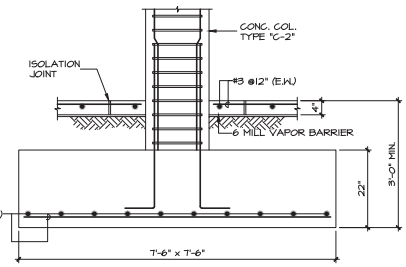



C-2

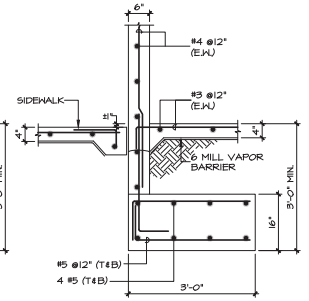



C-3

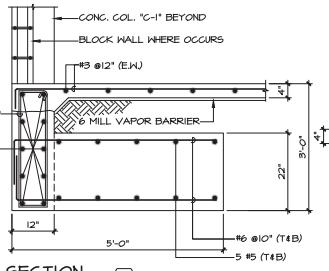
CONCRETE COLUMNS DETAILS




TYPICAL SQUARE FOOTING DETAIL MK'D "F-1"




SECTION 1 S-1A

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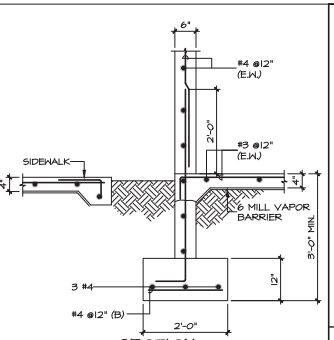
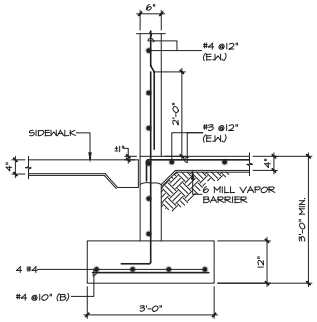



SECTION 9 S-1A

GAZEBO ROOF LEVEL

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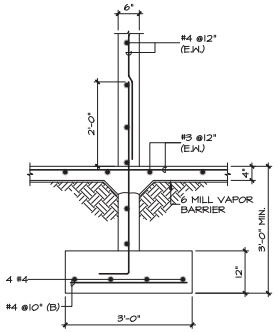


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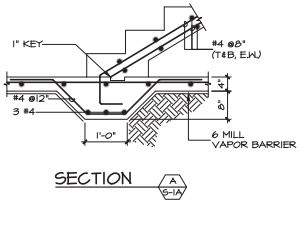
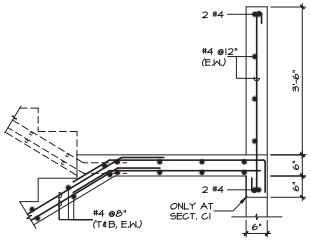



SECTION A S-1A

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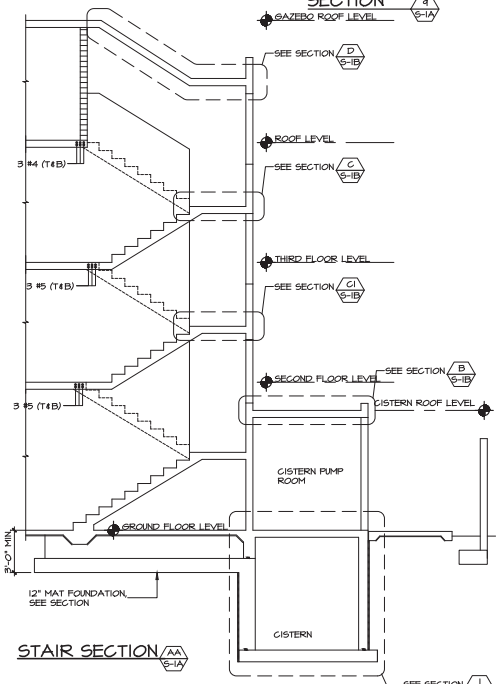
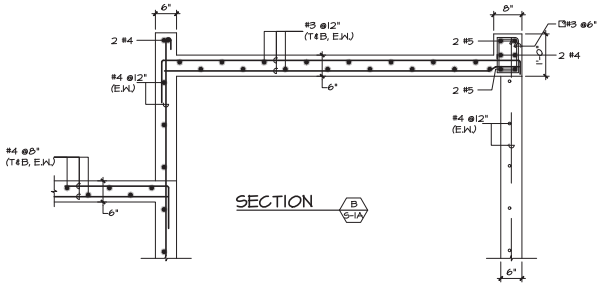
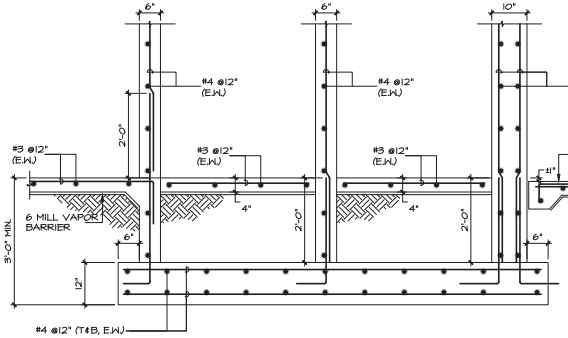



SECTION B S-1A

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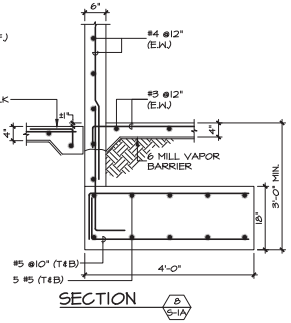
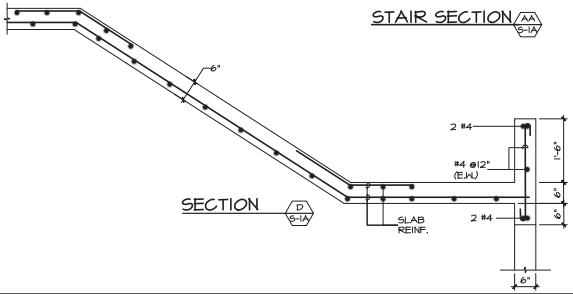



SECTION 8 S-1A




SECTION D S-1A

STAIR SECTION AA S-1A


ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CAGUAS: #1004, URB. CAGUAS SUR, CAGUAS P.R.
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PROJECT: 19-19 DATE: 04-25-2019


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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
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EDIFICIO DE USO MIXTO
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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ INGENIERO LICENCIADO LIC.#9435 PUERTO RICO


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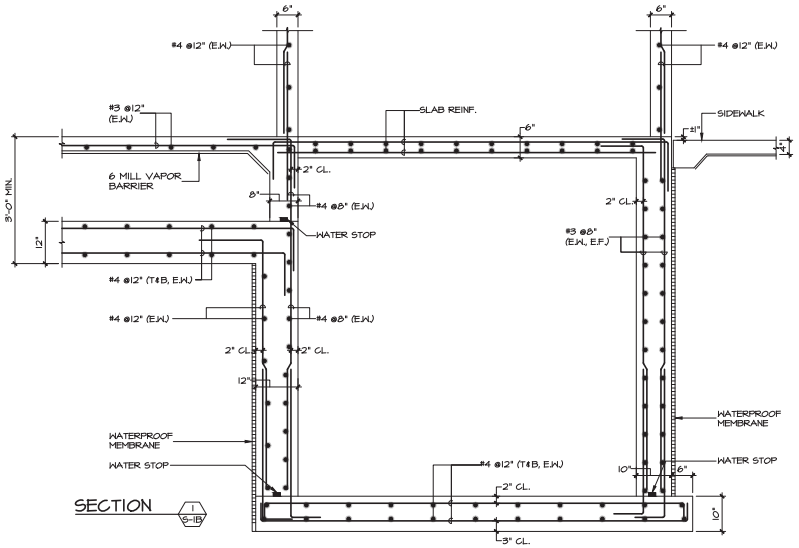
DRAWING TITLE
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-1A |
| DATE 04-11-2019 | |

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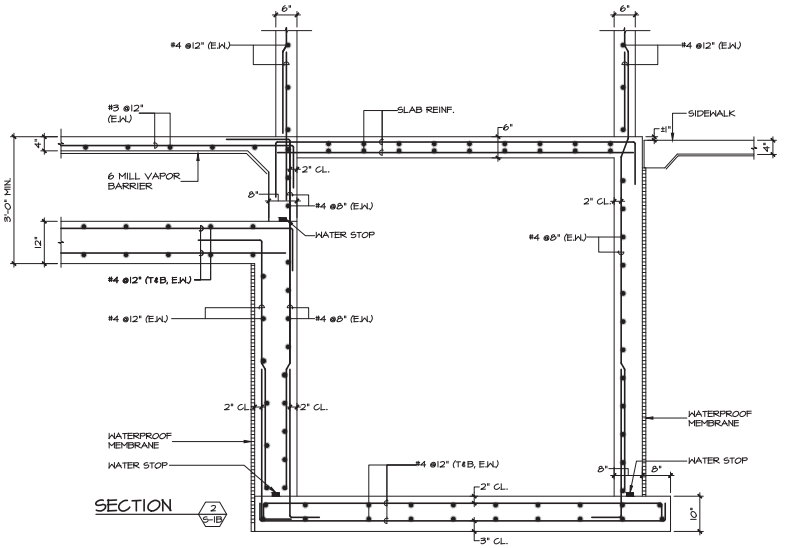


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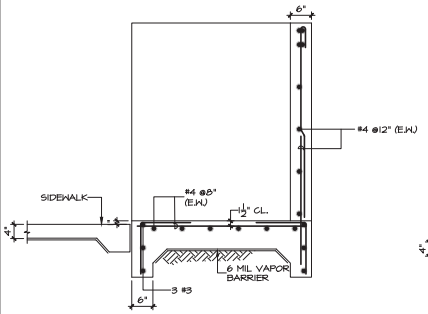


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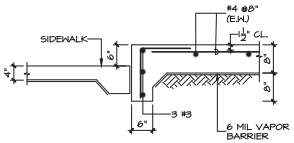
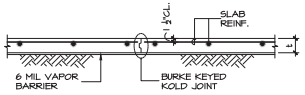
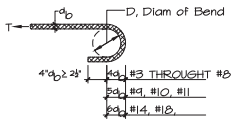


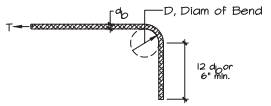

SECTION B S-1B




SLAB CONSTRUCTION JOINT DETAIL (C.J.)




180° HOOK

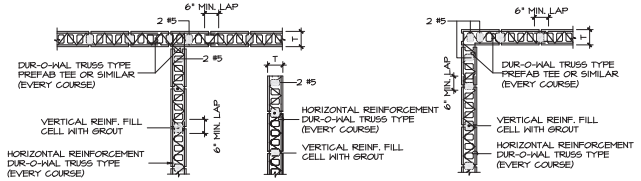



90° HOOK

MIN. DIAM. OF BEND

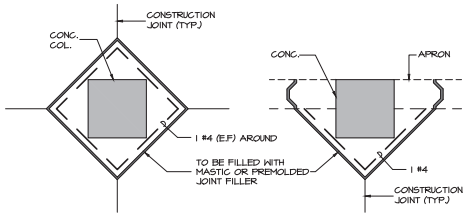
D= 6$d_b$ FOR #3 TO #8
D= 8$d_b$ FOR #9 TO #11
D= 10$d_b$ FOR #14, #18

TYPICAL DEVELOPMENT OF STANDARD HOOKS IN TENSION*
(NORMAL CONCRETE)




AT INTERSECTION AT END WALL AT CORNER

TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS




TYPICAL ISOLATION JOINT DETAIL


ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CAGUAS: AVDA. TITO CASTRO, 255 PONCIANA P.R.
( DIRIGIR SU CORREO SIEMPRE PVD )
URBANIZACION LAS ANDAS TORRE I - PISO 1202 OF. - CATAÑO P.R. 00962
TEL. 787-704-1070 - FAX. 787-704-1080 - MOVIL: 304-4138
EMAIL : ASDSTRUCTURES@GMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019



SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT # 1130
RIO PIEDRAS, P.R. 00920
TELS (787) 782-4436, 782-4437


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ INGENIERO LICENCIADO LIC.#9435 PUERTO RICO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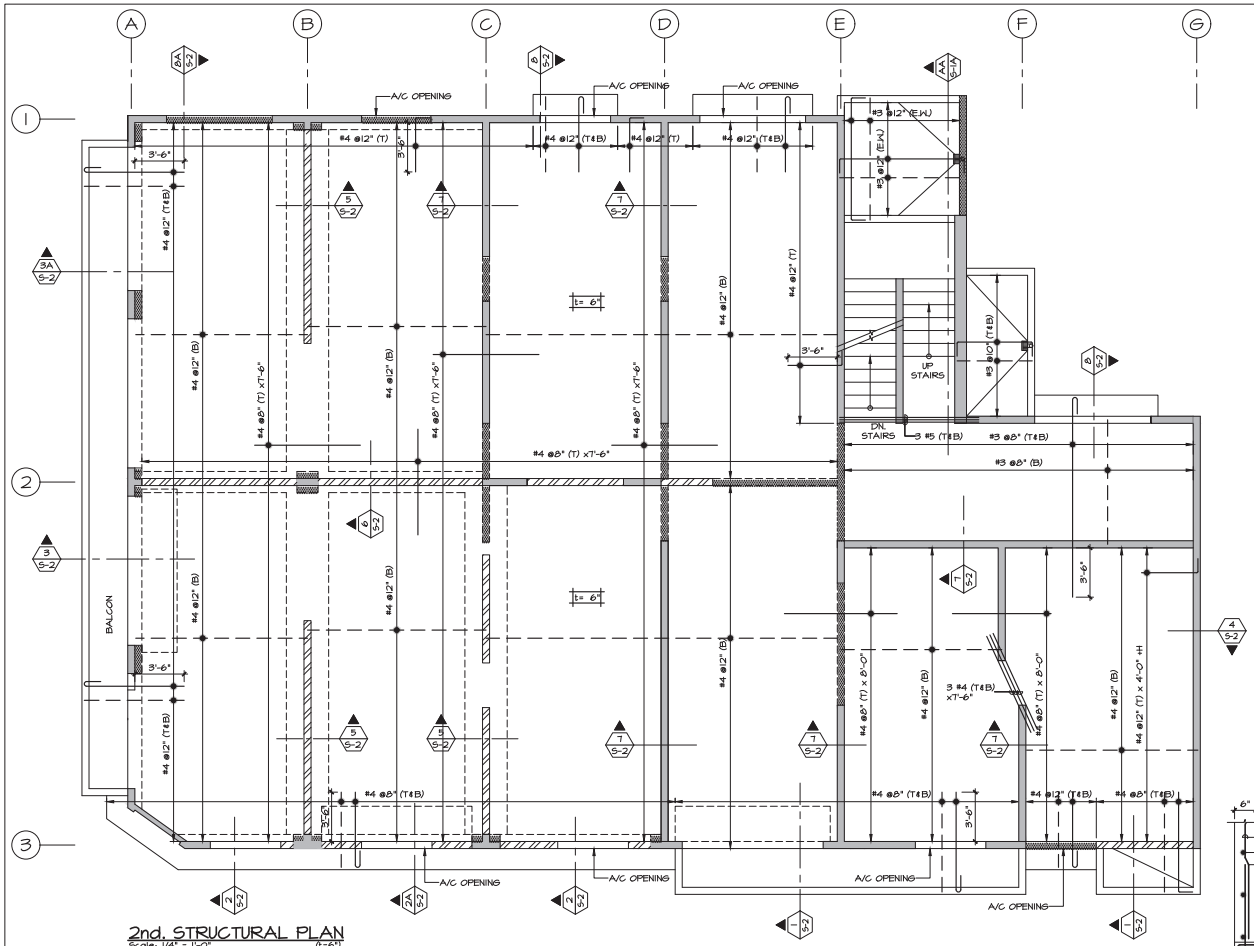
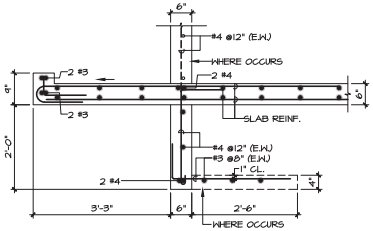
DRAWING TITLE
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-1B |
| DATE 04-11-2019 | |

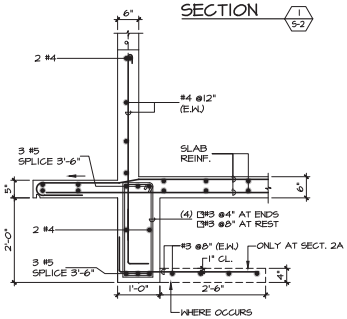



## 2nd. STRUCTURAL PLAN

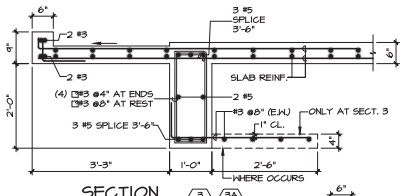
Scale: 1/4" = 1'-0" (t=6")



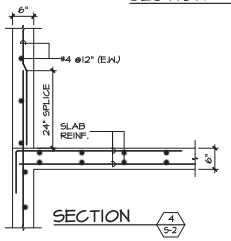

SECTION 1 5-2




SECTION 2 5-2 2A 5-2




SECTION 3 3A 5-2

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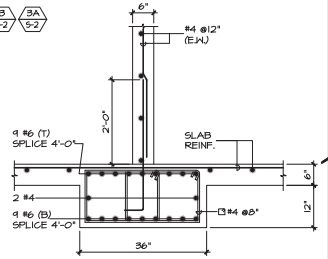
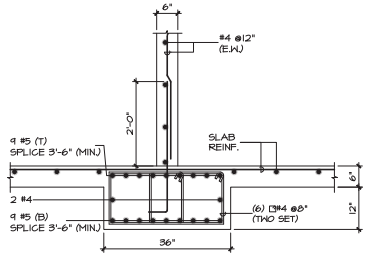
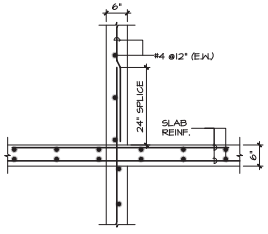


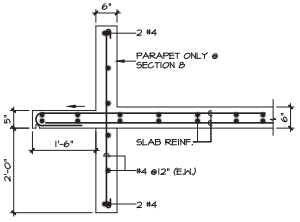

SECTION 5 5-2




SECTION 6 5-2




SECTION 7 5-2




SECTION 8 8A 5-2


S·A·SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT # 1136
RIO PIEDRAS, P.R. 00926
TELS (787) 282-4436, 782-4427


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC #9435
PUERTO RICO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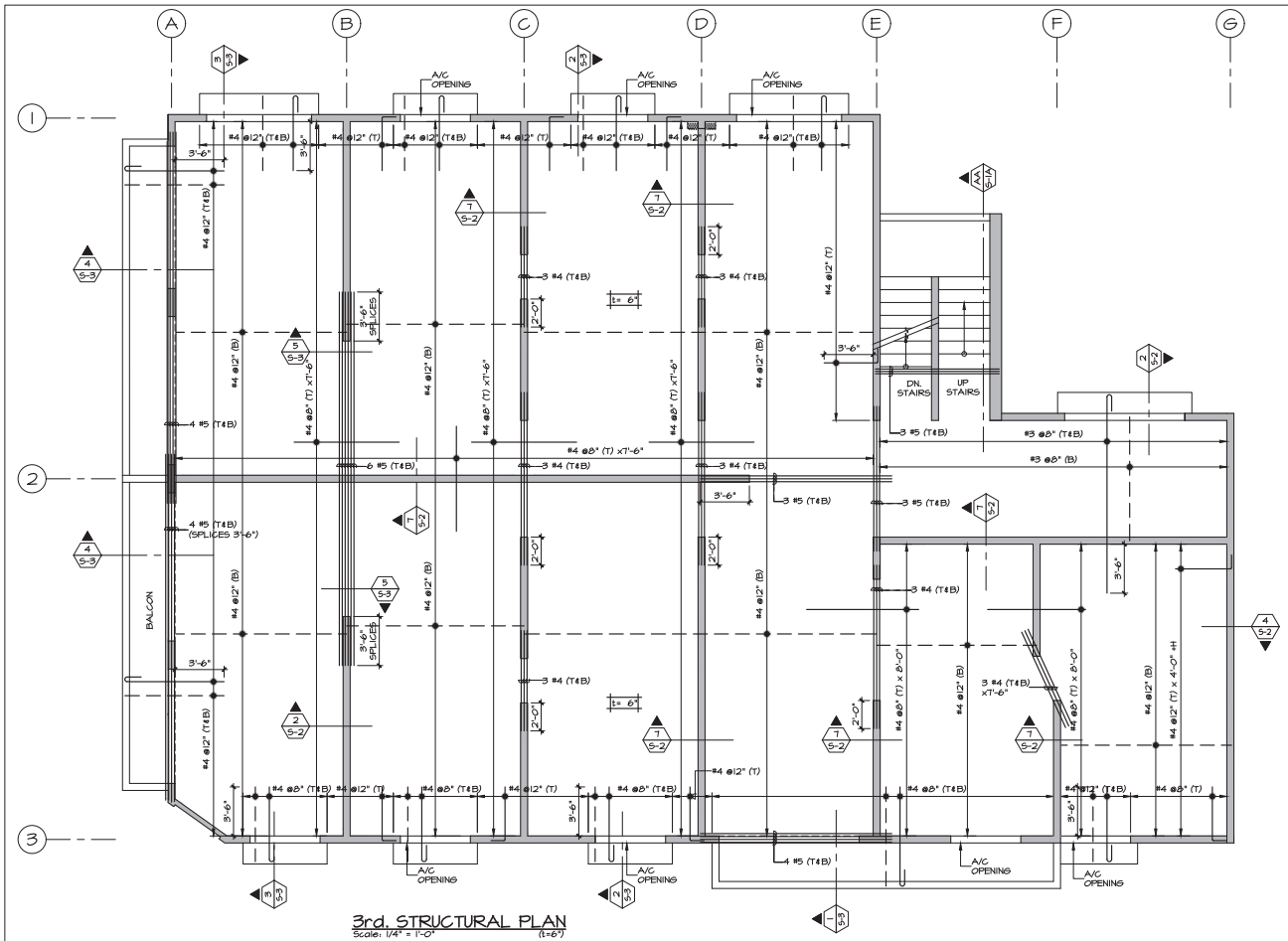
**DRAWING TITLE**
2nd. STRUCTURAL PLAN

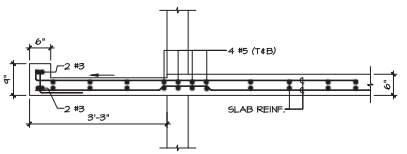
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-2 |
| DATE 04-11-2019 | |

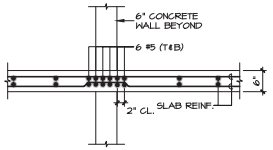

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER




3rd. STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=6")




SECTION 4/S-3

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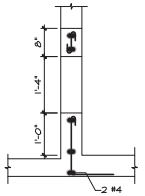
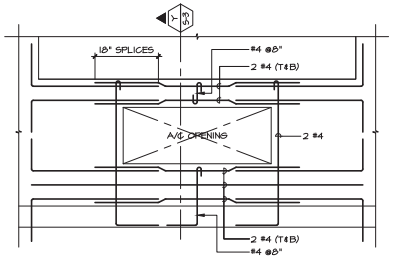
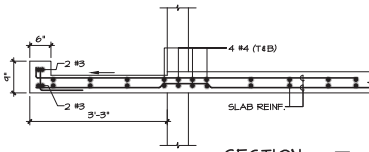


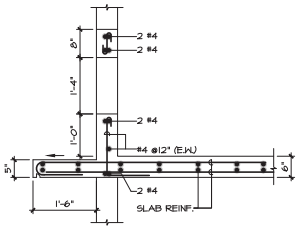

SECTION Y/S-3



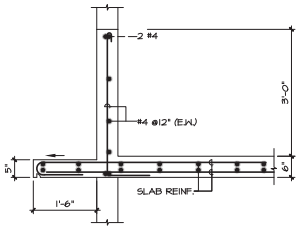

A/C WALL OPENING DETAIL A/S-3




SECTION 1/S-3




SECTION 2/S-3




SECTION 3/S-3


SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT #1130
RIO PIEDRAS, P.R. 00920
TEL.(809)782-4436, 782-4437


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC.#9435
PUERTO RICO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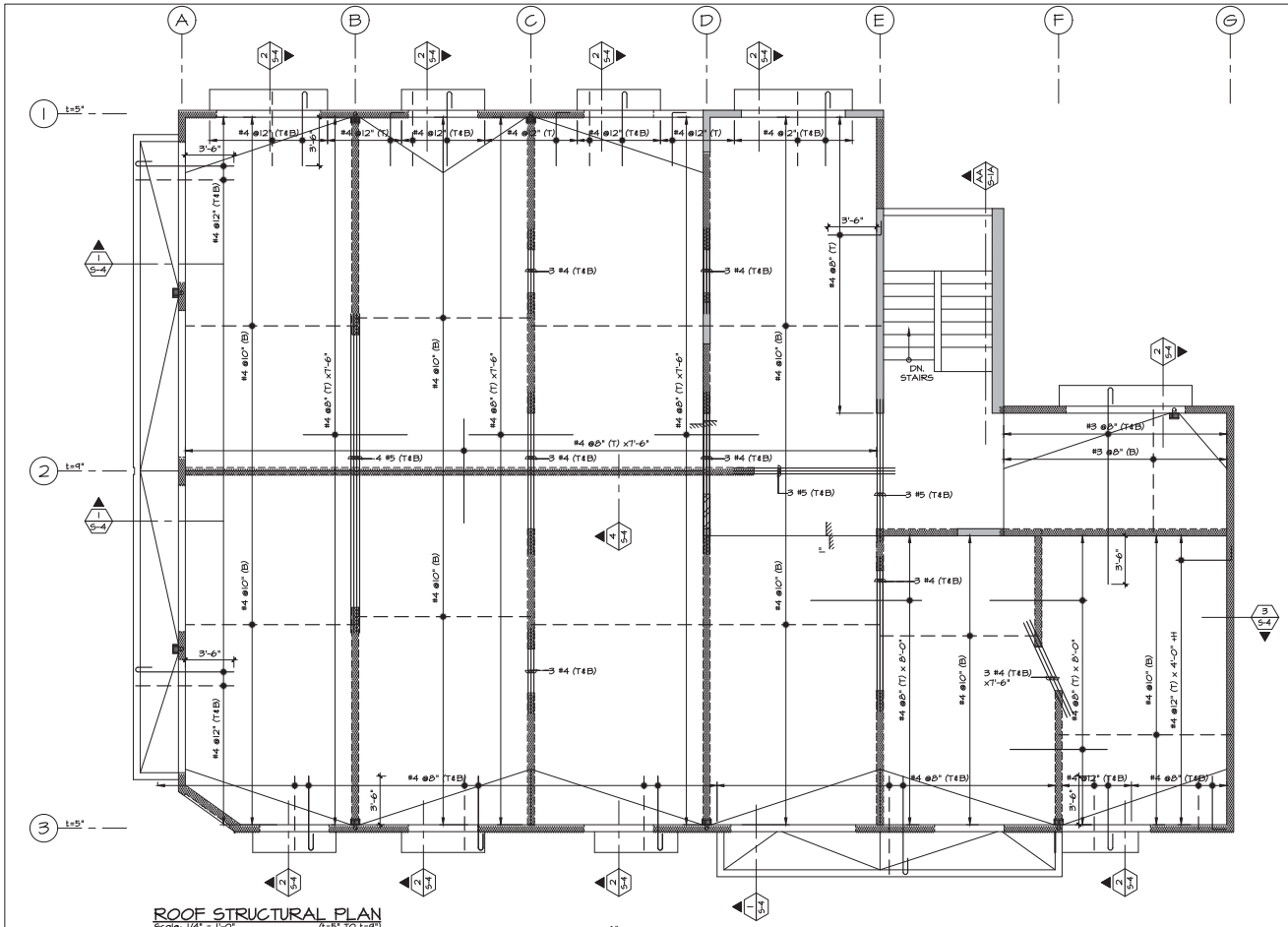
DRAWING TITLE
3rd. STRUCTURAL PLAN

SECTIONS & DETAILS

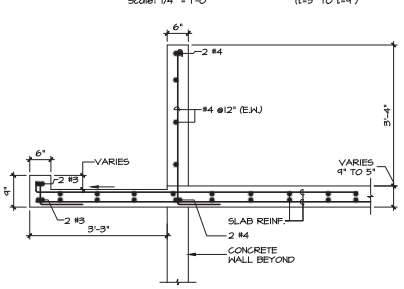
| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-3 |
| DATE 05-28-2019 | |


ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER

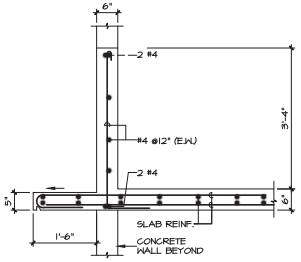

DATE: 07-01-2019



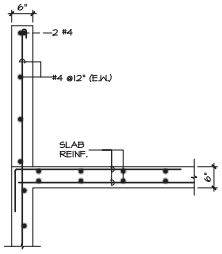
ROOF STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=5" TO t=9")



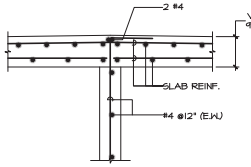
SECTION 1/S-4



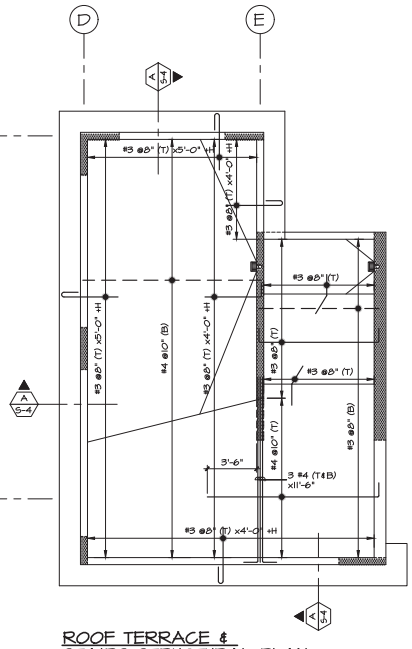
SECTION 2/S-4



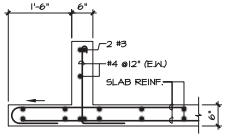
SECTION 3/S-4



SECTION 4/S-4



ROOF TERRACE & STAIRS STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=6)



SECTION A/S-4


SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT #1130
RIO PIEDRAS, P.R. 00920
TEL.(809)782-4436, 782-4437


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC.#9435
PUERTO RICO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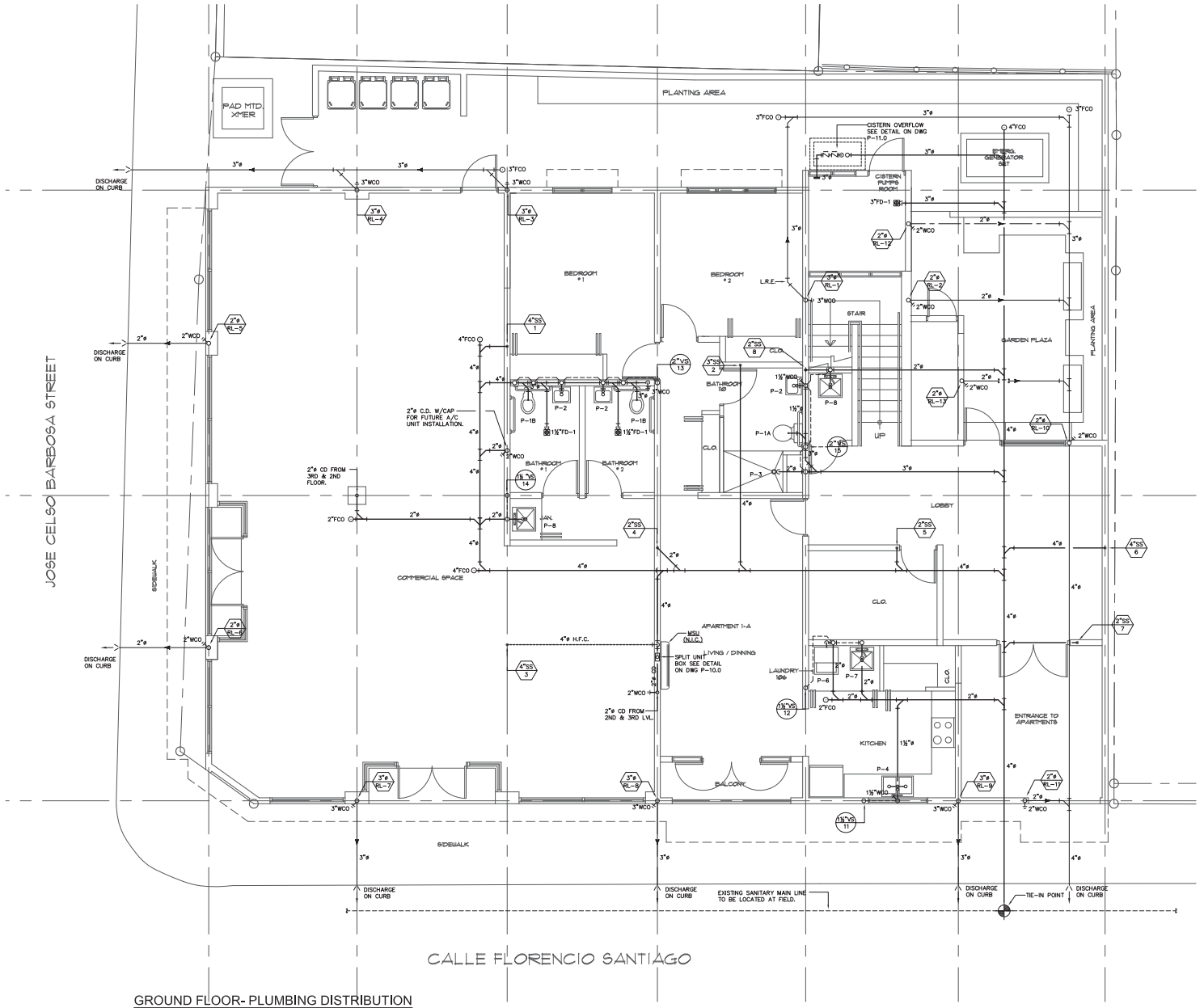
**DRAWING TITLE**
ROOF STRUCTURAL PLAN

SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-4 |
| DATE 04-11-2019 | |


ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CATALINA ALTOS, VIA. CAMINO DEL PEDREGAL P.R.
( DENTRO DE LOMAS DEL PEDREGAL )
URBANIZACION LAS ANDAS TORRE 1 - PISO 1202 #8 - GUAYNABO P.R. 00970
TEL. 787-706-1270 - FAX. 787-706-1280 - MOVIL: 396-4138
EMAIL : ASDSTRUCTURES@GMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019




## GROUND FLOOR- PLUMBING DISTRIBUTION

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


Yo, Francisco J. Mella, ingeniero, licencia #13947, 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 Código de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que en ésta producida sin conocimiento o por negligencia por mi, mis agentes o empleados, o por otras personas con mi consentimiento, no los hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPe.

FJM Engineering, psc
Consulting Engineers
352 San Claudio St., PMB 367, San Juan, PR 00926
Tel: (787) 722-4641 / Fax: (787) 722-4705



SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO PUERTO RICO 00966
787-255-3610 fsanchez@sanchezarana.com 787-296-3188


| SYM. | DESCRIPTION | BY | DATE |
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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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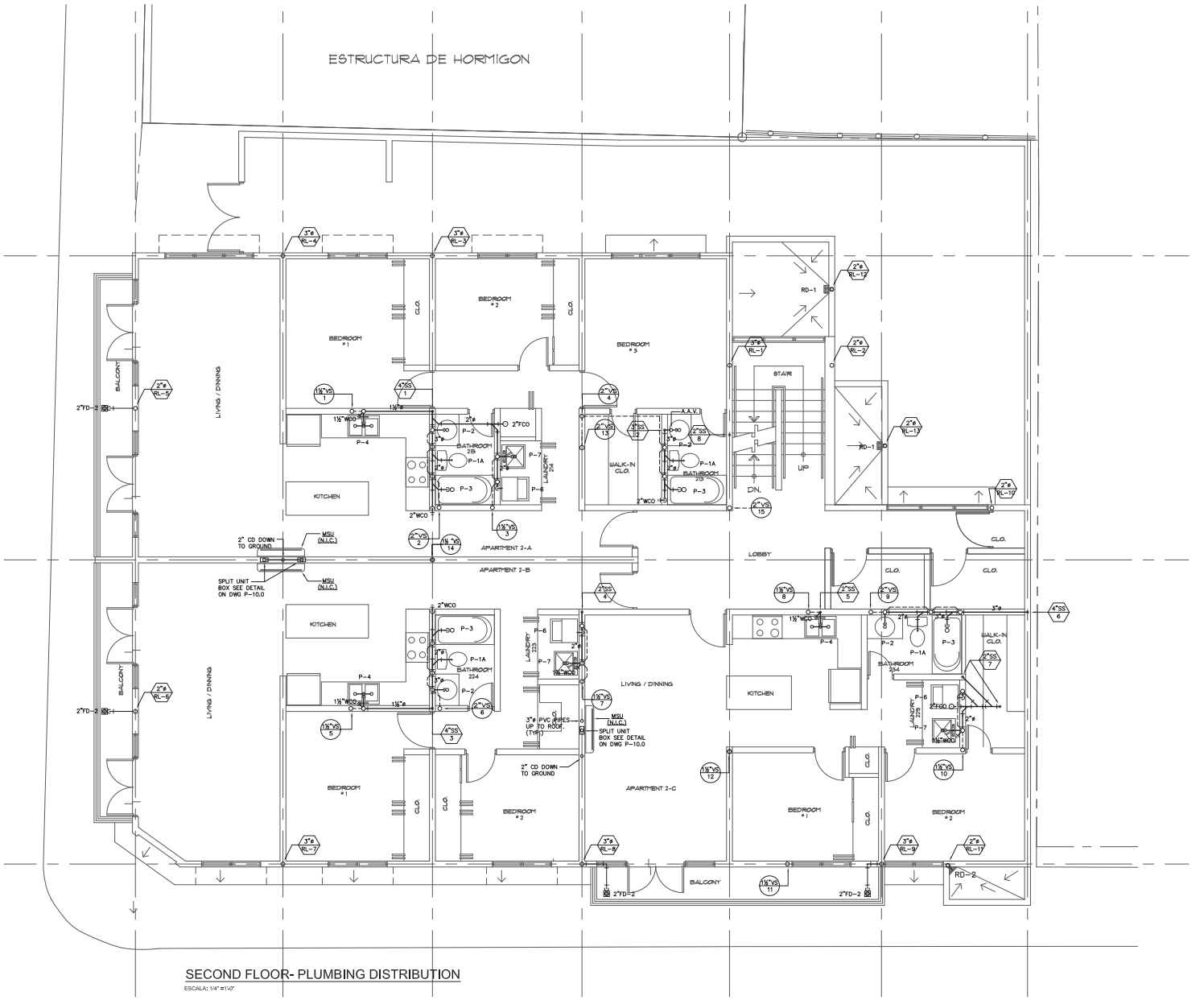
DRAWING TITLE
GROUND FLOOR PLUMBING DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-1 |
| DATE 15/05/2019 | |




SECOND FLOOR- PLUMBING DISTRIBUTION

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

Yo, Francisco J. Matá, ingeniero, licencia #13947, certifico que soy el profesional que diseñó estas 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 Código de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que en tapa producción sin conocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPe.

FJM Engineering, psc
Consulting Engineers
352 San Claudio St., PMB 367, San Juan, PR 00926
Tel: (787) 722-4641 / Fax: (787) 722-4705

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO PUERTO RICO 609566
787-255-3690 787-296-3189

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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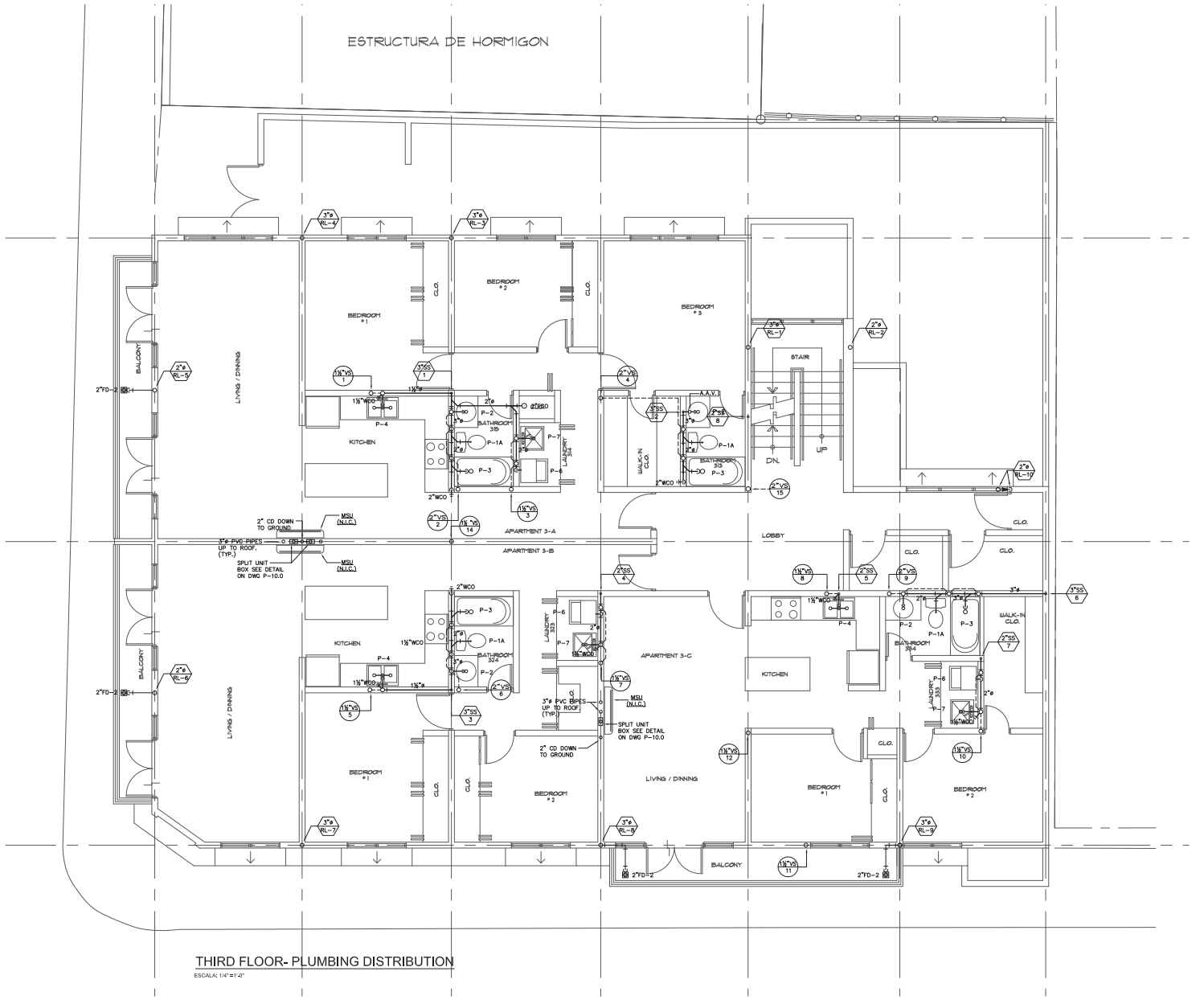
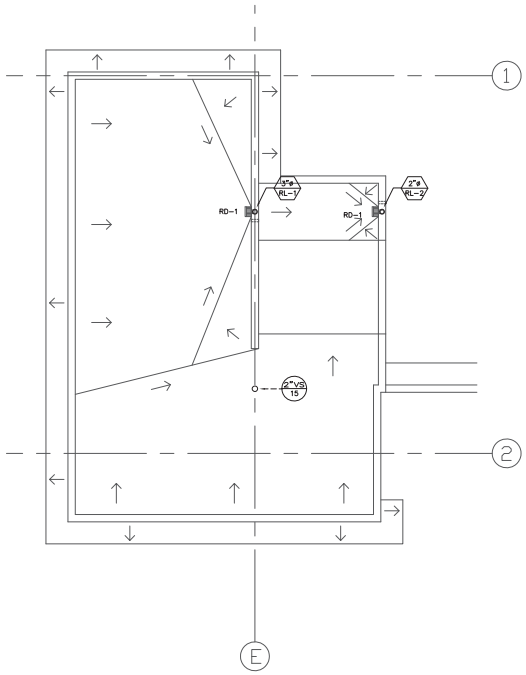
DRAWING TITLE
SECOND FLOOR PLUMBING DIST.

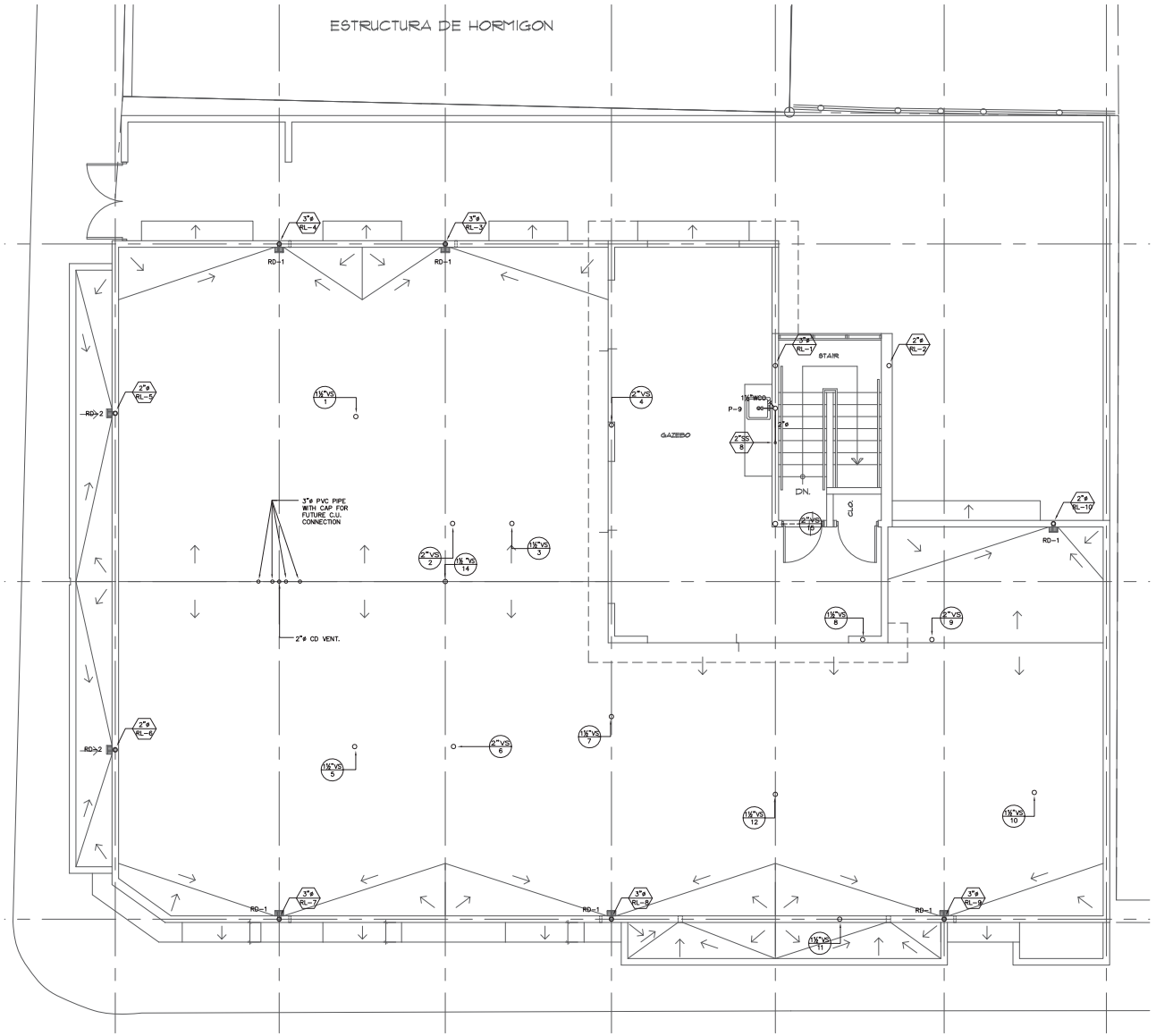
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-2 |
| DATE 15/05/2019 | |


ESTRUCTURA DE HORMIGON
BEDROOM #1
BEDROOM #2
BEDROOM #3
LIVING / DINING
KITCHEN
BATHROOM 3IB
BATHROOM 3IA
BATHROOM 3IB-1
BATHROOM 3IB-2
BATHROOM 3IB-3
BATHROOM 3IB-4
BATHROOM 3IA-4
BATHROOM 3IA-5
BATHROOM 3IA-6
BATHROOM 3IA-7
BATHROOM 3IA-8
BATHROOM 3IA-9
BATHROOM 3IA-10
BATHROOM 3IA-11
BATHROOM 3IA-12
BATHROOM 3IA-13
BATHROOM 3IA-14
BATHROOM 3IA-15
BATHROOM 3IA-16
BATHROOM 3IA-17
BATHROOM 3IA-18
BATHROOM 3IA-19
BATHROOM 3IA-20
BATHROOM 3IA-21
BATHROOM 3IA-22
BATHROOM 3IA-23
BATHROOM




STAIRS AND GAZEBO ROOF PLAN- PLUMBING DISTRIBUTION

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




ROOF PLAN- PLUMBING DISTRIBUTION

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787-255-3660 lisasanchezarana@gmail.com 787-298-3188

| NUM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
ROOF PLAN
PLUMBING DIST.

| PROJECT | SHEET NO. |
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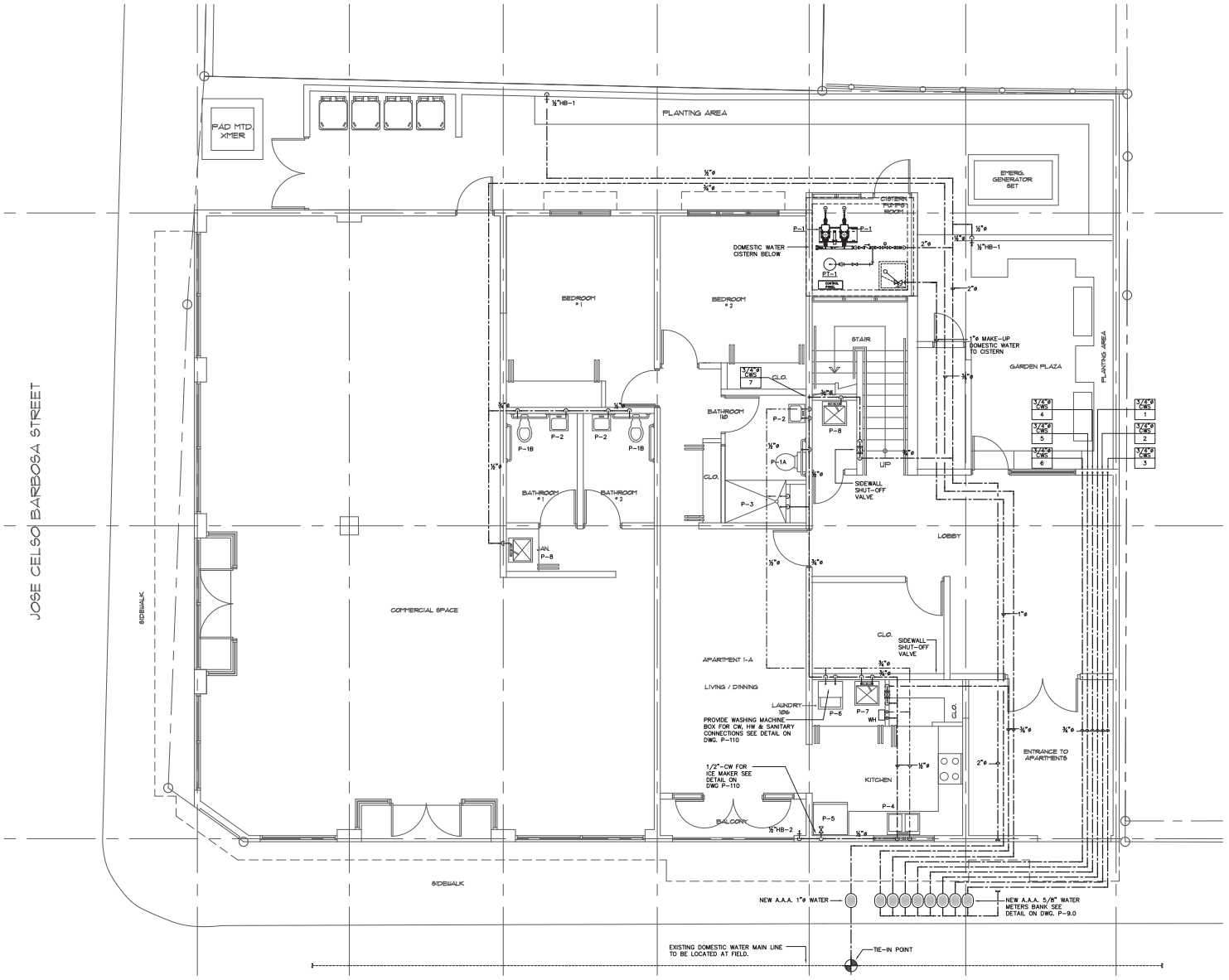
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-4 |
| DATE 15/05/2019 | |




GROUND FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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EDIFICIO DE USO MIXTO
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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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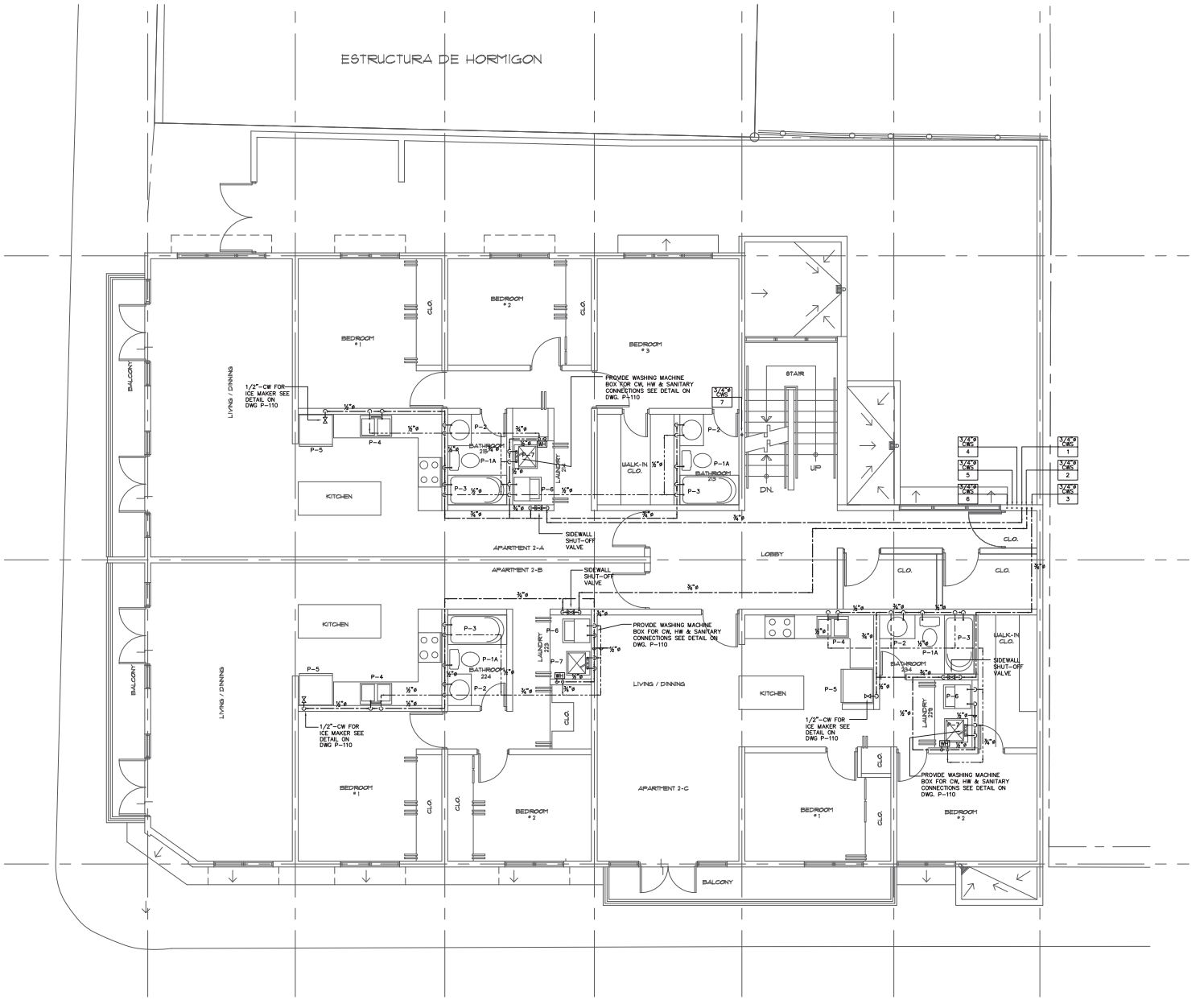
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-5 |
| DATE 15/05/2019 | |




SECOND FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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BARRIO PUEBLO, COAMO, PUERTO RICO

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DOMESTIC WATER DIST.

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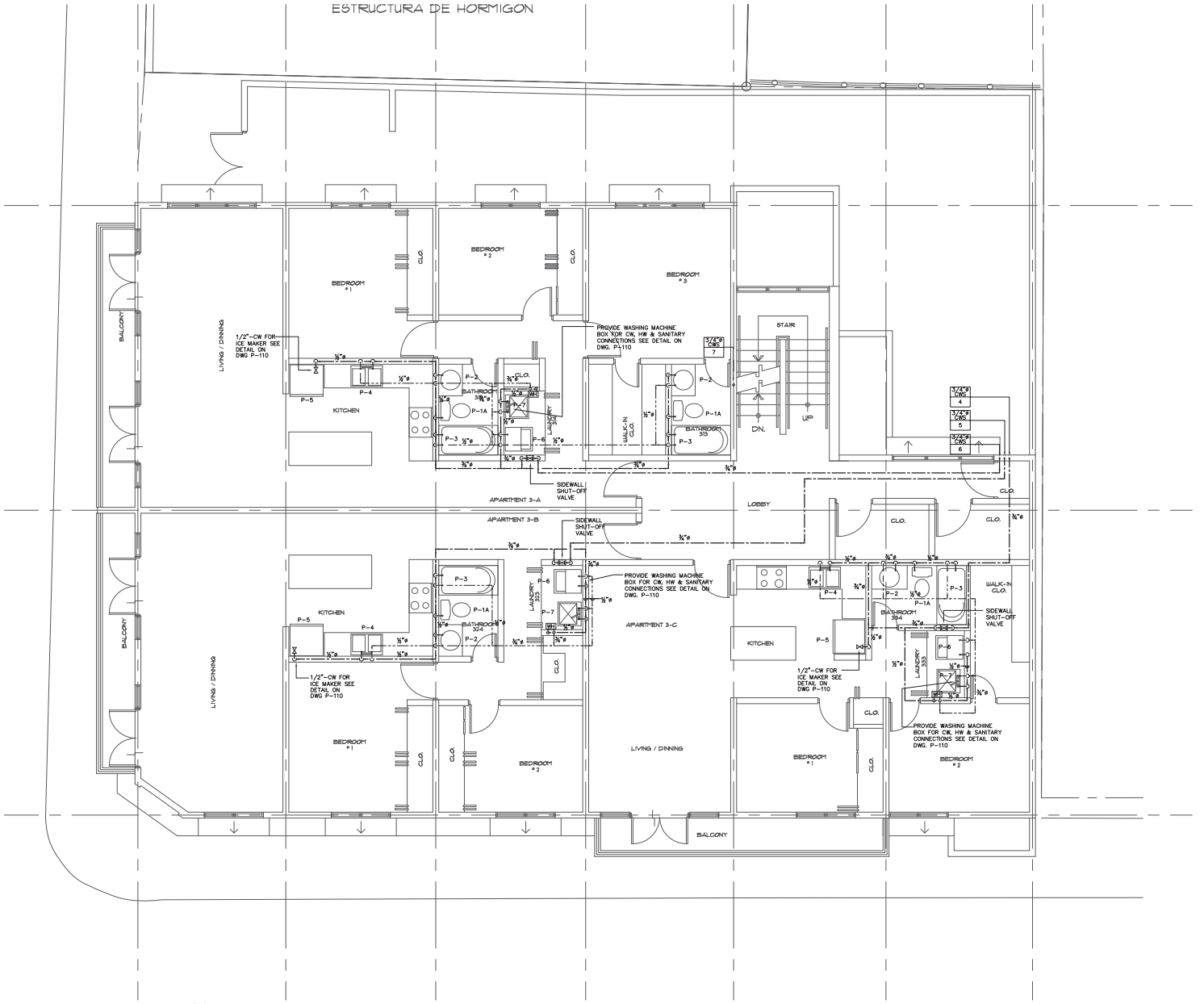
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-6 |
| DATE 15/05/2019 | |




THIRD FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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DOMESTIC WATER DIST.

| PROJECT | SHEET NO. |
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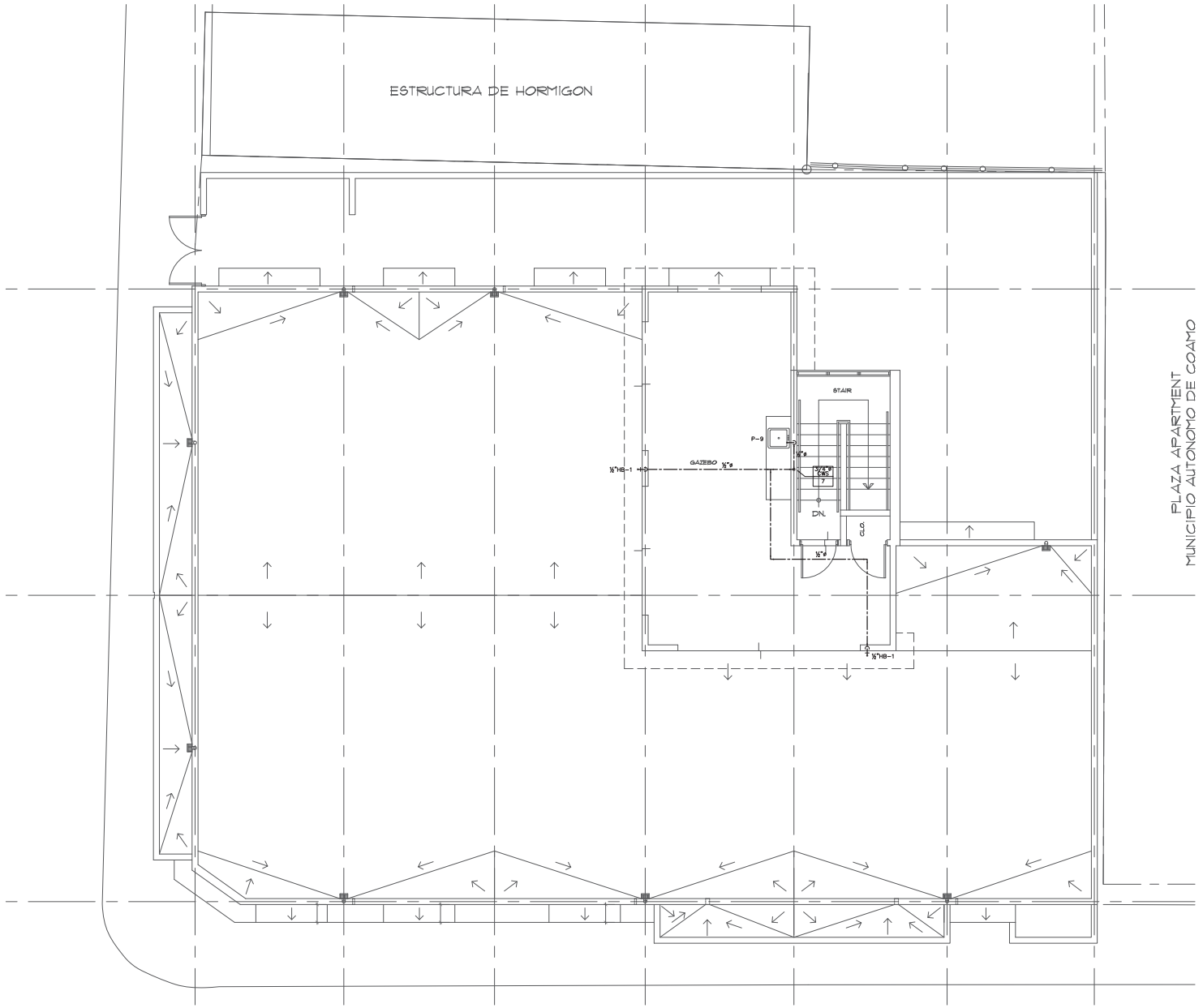
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-7 |
| DATE 15/05/2019 | |




ROOF PLAN-
DOMESTIC WATER DISTRIBUTION

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

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| SYM. | DESCRIPTION | BY | DATE |
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DRAWING TITLE
ROOF PLAN
DOMESTIC WATER DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-8 |
| DATE 15/05/2019 | |

## PLUMBING NOTES:

1. THESE NOTES AS WELL AS THE LEGEND AND DETAILS APPLIES TO ALL PLUMBING WORK.
2. WATER PIPING BELOW GRADE TO BE TYPE "K" COPPER AND WATER PIPING ABOVE GRADE TO BE TYPE "L" HARD DRAWN COPPER. SIZE IS AS INDICATED DRAWINGS.
3. SOLDER USED IN ANY POTABE OR DOMESTIC WATER SYSTEM MUST BE LEAD–FREE.
4. ALL WATER SUPPLY LINES ARE TO BE SEPARATED A MINIMUM OF 1'–0" FROM SANITARY LINES.
5. ALL WASTE, SANITARY AND STORM DRAINAGE LINES 4" IN DIAMETER AND LARGED SHALL BE PVC SDR 35 AND SCHEDULE 40 FOR 3" AND SMALLER.
6. TRENCHES FOR ALL UNDERGROUND PIPES ARE TO BE EXCAVATED TO REQUIRED DEPTHS. AFTER THE PIPES HAVE BEEN TESTED, INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER, THE TRENCHES MUST BE FILLED WITH APPROVED FILL COMPACTED TO A MINIMUM OF 95% OF THE SOIL MAX. DRY UNIT WEIGHT.
7. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT INTERVALS NOT EXCEEDING 75 FEET FOR PIPES 4" AND SMALLER, AND 100 FEET FOR PIPES THROGH 10" IN DIAMETER.
10. HORIZONTAL DRAINAGE PIPES SHAL BE INSTALLED AND ALIGNED AT UNIFORM SLOPES NOT LESS THAN 1/4" INCH PER FEET FOR 3–INCH DIAMETER AND LESS, AND NOT LESS THAN 1/8 INCH PER FEET FOR DIAMETERS OF 4 INCHES OR MORE.
11. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" FOR LARGER DIAMETERS.
12. FIXTURES, FITTINGS, ACCESSORIES, MATERIALS AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS. EQUAL OR SIMILAR SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT/ENGINEER.
13. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
14. THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE, THE INTERNATIONAL PLUMBING CODE, THE HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THE PROJECT.
15. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.
16. BEFORE STARTING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF EXISTING PIPE LINES TO REMAIN IN USE . ANY SIGNIFICANT DISCREPANCY WITH THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE NOTIFIED TO THE ARCHITECT/ENGINEER FOR REVISION.
17. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS AND FIXTURES SCHEDULE.
18. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING–IN AND INSTALL THE PLUMBING FIXTURES AS INDICATED ON THESE DRAWINGS.
19. THE PROPOSED WATER DISTRIBUTION SYSTEM MUST BE TESTED TO A HYDROSTATIC PRESSURE OF 125 PSI AND PROVED TIGHT AT THIS PRESSURE FOR FOUR CONSECUTIVE HOURS BEFORE PIPES ARE CONCEALED AND PRIOR TO ANY FIXTURE INSTALATION.
20. ALL WASTE AND DRAIN PIPES ARE TO BE TESTED USING WATER AND PROVED TIGHT TO THE ARCHITECT/ENGINEER BEFORE TRENCHES ARE BACKFILED, PIPES CONCEALED OR FIXTURE INSTALLATION.
21. OTHER QUALIFIED MANUFACTURERS' PRODUCTS CAN BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR ENGINEER ALONG WITH A COMPARATIVE TABLE SHOWING CHARACTERISTICS OF THE SPECIFIED AND PROPOSED PRODUCT.
22. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE TYPE "M" COPPER OR SCH.40PVC.
23. CONDENSATE PIPING INSULATION SHALL BE 1/2" THICK CLOSED CELL FLEXIBLE ELASTOMERIC THERMAL INSULATION (K=0.30 BTU*in/h*ft^2*F @ 75F MAX). PROVIDE WEATHER–RESISTANT PROTECTIVE FINISH FOR OUTDOOR USE.

## PLUMBING FIXTURE SCHEDULE

| DESIG–NATION | DESCRIPTIONS | UNIT WASTE OR SOIL | VENT SIZE | WATER SUPPLY | | REMARKS |
|---|---|---|---|---|---|---|
| | | | | COLD | HOT | |
| P–1A | TOILET (FLUSH TANK) | 3" | 1½" | ½" | – | SEE ARCH DWGS. |
| P–1B | TOILET (FLUSH VALVE) | 3" | 1½" | 1" | – | SEE ARCH DWGS. |
| P–2A | LAVATORY | 1½" | 1¼" | ½" | ½" | SEE ARCH DWGS. |
| P–2B* | LAVATORY | 1½" | 1¼" | ½" | – | SEE ARCH DWGS. |
| P–3 | SHOWER | 2" | 1½" | ½" | ½" | SEE ARCH DWGS. |
| P–4 | KITCHEN DOUBLE SINK | 1½" | 1¼" | ½" | ½" | SEE ARCH DWGS. |
| P–5 | ICE MAKER | – | – | ½" | – | SEE DETAIL ON DWG P–10.0 |
| P–6 | WASHER MACHINE | 2" | 1½" | ½" | ½" | SEE DETAIL ON DWG P–10.0 |
| P–7 | LAUNDRY SINK | 2" | 1½" | ½" | ½" | SEE ARCH DWGS. |
| P–8 | JANITOR SINK | 2" | 1½" | ½" | – | SEE ARCH DWGS. |
| P–9 | SINGLE SINK | 2" | 1½" | ½" | | SEE ARCH DWGS. |
| RD–1 | ROOF DRAIN | SEE DWG | – | – | – | SIMILAR TO JAY R. SMITH Fig. No. 1510T |
| RD–2 | ROOF DRAIN | SEE DWG | – | – | – | SIMILAR TO JAY R. SMITH Fig. No. 1690T |
| FD–1* | FLOOR DRAIN | SEE DWG | 1¼" | – | – | SEE DETAIL ON DWG P–7 |
| FD–2 | FLOOR DRAIN | SEE DWG | 1¼" | – | – | SEE DETAIL ON DWG P–7 |

* INCLUDE SMITH FIGURE 2699 TRAP SEAL PRIMER VALVE INSTALLED IN THE LAVATORY COLD WATER SUPPLY LINE AND CONNECTED TO THE FLOOR DRAIN TRAP.

## PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- DIRECTION OF FLOW (SANITARY)
- TEE PIPE DOWN
- SANITARY TEE
- GATE VALVE
- WATER HAMMER ARRESTOR
- P–TRAP
- FLOOR DRAIN W/P–TRAP
- FLOOR SINK W/P–TRAP
- FLOOR DRAIN W/P–TRAP
- FLOOR CLEANOUT
- CLEANOUT PLUG
- WALL CLEANOUT PLUG
- STORM LEADER STACK
- SANITARY STACK
- HOSE BIBB
- FREE DISCHARGE

## PIPING TYPES

- SANITARY SEWER PIPE
- SANITARY VENT PIPE
- COLD WATER PIPE
- HOT WATER PIPE

## ABBREVIATIONS

| | |
|---|---|
| (H.F.C.) | HUNG FROM CEILING |
| CLG | CEILING |
| (UG) | UNDERGROUND |
| W.H. | WATER HEATER |
| (DN.) | DOWN |
| CWR | COLD WATER RISER |
| CW | COLD WATER |
| HW | HOT WATER |
| S.S. | SANITARY STACK |
| V.S. | VENT STACK |
| CD | CONDENSATE DRAIN |
| R.L. | RAIN LEADER |
| R.D. | ROOF DRAIN |
| FL. | FLOOR |
| FPR | FIRE PROTECTION RISER |
| H.B. | HOSE BIBB |
| V.T.R. | VENT THRU ROOF |
| V | VENT |
| C.O.P. | CLEANOUT PLUG |
| FCU | FAN COIL UNIT |
| F.D. | FLOOR DRAIN |
| C.O. | CLEANOUT |
| W.H.A. | WATER HAMMER ARRESTOR |
| DWG. | DRAWING |
| TYP. | TYPICAL |
| CONC. | CONCRETE |

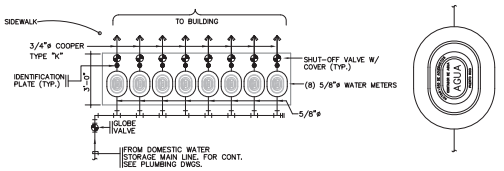
## WATER TANK & PUMP NOTES

1. CONTRACTOR SHALL FURNISH & INSTALL THE FOLLOWING EQUIPMENT (OR EQUAL).

   PT–1. PRESSURE TANK – 180 GALLON 200 PSIG RATED SYNCROFLO HYDROCUMULATOR TANK

   P–1&2. AURORA CONSTANT SPEED VERTICAL MULTI–STAGE DIFFUSER PUMPS WITH STAINLESS STEEL SHAFTS, STAINLESS STEEL IMPELLERS, AND A TUNGSTEN CARBIDE MECHANICAL SEAL. PUMP NO. 1 SHALL BE MODEL PVM8–40 RATED 50 GPM AT 150 FT. TDH DRIVEN BY A 3 H.P., 208 VOLTS, 60 HERTZ, 3 PHASE, 3500 RPM, OPEN DRIP PROOF VERTICAL SOLID SHAFT MOTOR. PUMP NO. 2 SHALL BE MODEL PVM8–40 RATED 50 GPM AT 150 FT. TDH DRIVEN BY A 3 H.P., 208 VOLTS, 60 HERTZ, 3 PHASE, 3500 RPM, OPEN DRIP PROOF VERTICAL SOLID SHAFT MOTOR. EACH MOTOR SHALL MEET NEMA STANDARDS AND OPERATE WITHIN THE NAMEPLATE HORSEPOWER AT ANY POINT ON THE PUMP CAPACITY HEAD CURVE.

   CISTERN WATER TANK – 1,800 GALLON 7'–10" x 7'–1" x 6'–0" CONCRETE
2. CONTRACTOR SHALL PROVIDE CONCRETE PADS FOR EACH PIECE OF EQUIPMENT.
3. CONTRACTOR SHALL PROVIDE A DUAL PUMP CONTROL PANEL AND ALL NECESSARY ISOLATION VALVES, PRESSURE INDICATORS, PRESSURE REGULATORS, FLOAT VALVES, CHECK VALVES, LEVEL AND PRESSURE SENSORS AS REQUIRED FOR THE PROPER OPERATION OF THE SYSTEM.




| DESCRIPTION | SPACE | METER SIZE |
|---|---|---|
| 1st FLOOR APARTMENT | (1A) | 5/8"ø |
| 1st FLOOR COMMERCIAL AREA | (1B) | 5/8"ø |
| COMMON AREAS | (1C) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2A) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2B) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2C) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3A) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3B) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3C) | 5/8"ø |

## WATER METER BANK DETAIL

NOT TO SCALE

## PIPING SPECIFICATIONS:

| SERVICE | LOCATION | | P.V.C. TYPE SDR–35 A.S.T.M. 3034 | P.V.C. D.W.V. SCH. 40 A.S.T.M.–D–2665 | COPPER PIPE TYPE "K" A.S.T.M.– B – 88 – 60a | GALVANIZED PIPE SCH. 40 A.S.T.M. – A– 120 | COPPER PIPE TYPE "L" A.S.T.M.– B– 88–51 | BLACK STEEL PIPE A.S.T.M. – A– 120* | C.I. D.W.V. NO HUB COUPLINGS | P.V.C. S.D.R. –14 | P.V.C. CLASS 200 J.M. BLUE BRUTE UL/FM LISTED | COPPER PIPE TYPE "DWV" ASTM "B"–306–66a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOIL DRAINS | BRANCHES THRU SLAB | 3" OR LESS | | ● | | | | | | | | |
| | | MORE THAN 3" | | | | | | | | | | |
| | VERTICAL STACKS | | | ● | | | | | | | | |
| | BUILDING DRAIN UNDERGROUND (3" OR LESS) | | | ● | | | | | | | | |
| | BUILDING SEWER UNDERGROUND (MORE THAN 3") | | ● | | | | | | | | | |
| | BRANCHES ABOVE FLOOR SLAB | | | ● | | | | | | | | |
| WASTE DRAINS | BRANCHES THRU SLABS | | | ● | | | | | | | | |
| | VERTICAL STACK | | | ● | | | | | | | | |
| | HORIZONTAL STACK | | | ● | | | | | | | | |
| | UNDERGROUND | | ● | | | | | | | | | |
| | BRANCHES ABOVE FLOOR SLAB | | | ● | | | | | | | | |
| VENTS | BRANCHES HORZ. & VERT. | | | ● | | | | | | | | |
| | VERTICAL STACKS | | | ● | | | | | | | | |
| | UNDERGROUND | | | ● | | | | | | | | |
| WATER | UNDERGROUND MAINS 4" ABOVE | | | | | | | | | ● | | |
| | UNDERGROUND | | | | | | | | | ● | | |
| | ABOVE GROUND | | | | | | | ● | | | | |
| | THRU CONCRETE SLAB | | | | | | | ● | | | | |
| STORM DRAINS | VERTICAL LEADERS & DOWNSPOUTS | CONCEALED | | ● | | | | | | | | |
| | | EXPOSED | | ● | | | | | | | | |
| | HUNG FROM CEILING | | | ● | | | | | | | | |
| | UNDERGROUND OUTSIDE BUILDING | | | ● | | | | | | | | |
| | UNDERGROUND INSIDE BUILDING | | | ● | | | | | | | | |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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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PLUMBING NOTES & SCHEDULES.

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| DRAWN | P–9 |
| DATE 15/05/2019 | |


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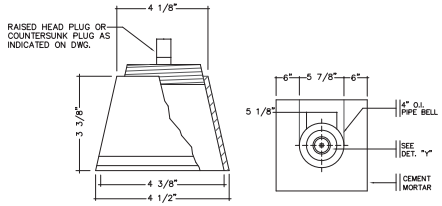
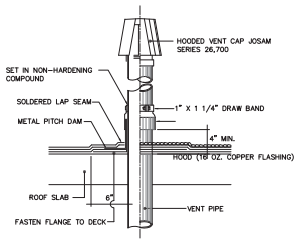


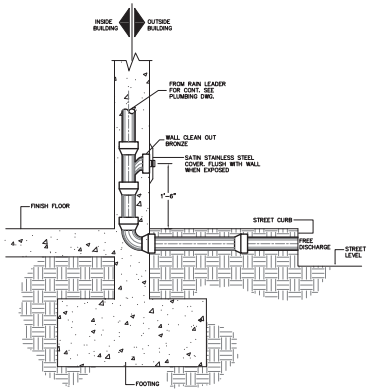

GROUND CLEANOUT DETAIL

NOT TO SCALE




VENT PIPE THRU ROOF TYPICAL DETAIL

NOT TO SCALE




STORM SEWER RISER DETAIL

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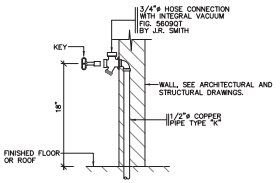
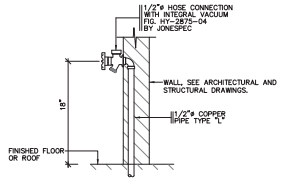



HOSE BIBB INSTALLATION DETAIL (HB-1)

NOT TO SCALE




HOSE BIBB INSTALLATION DETAIL (HB-2)

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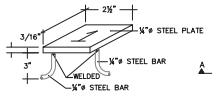
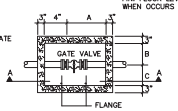
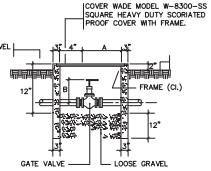



METALLIC PLATE DETAIL




PLAN




SECTION A-A

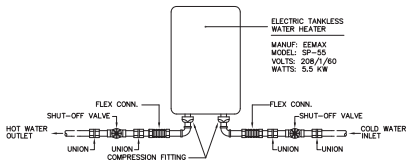
VALVE BOX SCHEDULE

| DIMENSIONS MARKED | VALVE SIZE (IN INCHES) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 3" | 2 1/2" | 2" | 1 1/2" | 1 1/4" | 1" | 3/4" | 1/2" |
| A | 13" | 13" | 11" | 11" | 11" | 8" | 8" | 8" |
| B | 6" | 6" | 5" | 5" | 5" | 4" | 4" | 4" |
| C | 9" | 9" | 8" | 8" | 8" | 6" | 6" | 6" |
| ACCESS COVER SIZE | AS REQUIRED | | | | | | | |

NOTE: VALVES 2 1/2" & SMALLER SHALL BE EQUAL TO NIBCO MODEL 595-Y-66. FOR 3" VALVE USE NIBCO MODEL 590-Y-66 OR APPROVED EQUAL.

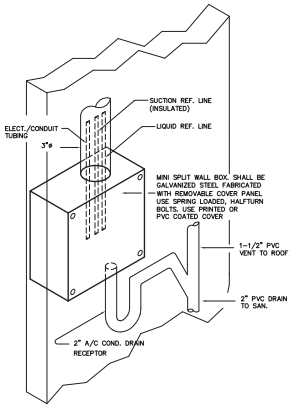
VALVE BOX DETAIL

NOT TO SCALE



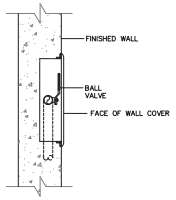

IN-LINE WATER HEATER DETAIL

NOT TO SCALE



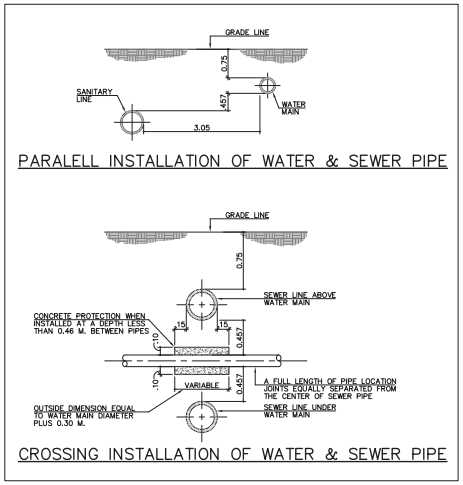

WALL PANEL BOX DETAIL

NOT TO SCALE




SIDEWALL VALVE BOX DETAIL

NOT TO SCALE




TYPICAL SEPARATION OF WATER & SEWER PIPES

NOT TO SCALE

Yo, Francisco J. Maldonado, Ingeniero, licencia #13947, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haga producida sin conocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hace responsable de cualquier acción judicial y disciplinaria por la OPP y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OPP.

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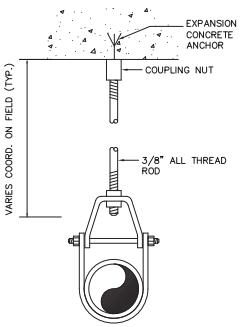
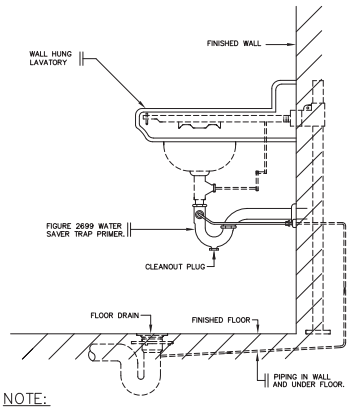
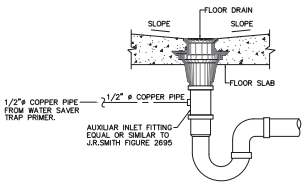



PIPING SUPPORT DETAIL
NOT TO SCALE

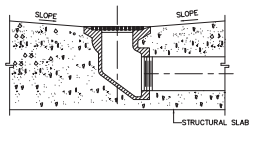



NOTE:
WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

WATER TRAP PRIMER DETAIL
NOT TO SCALE

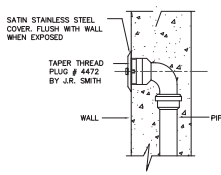



F.D.–1
FLOOR DRAIN EQUAL OR SIMILAR TO J.R. SMITH FIGURE 2010–B (G),(U)

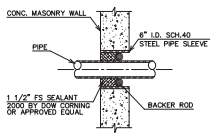



F.D.–2
FLOOR DRAIN EQUAL OR SIMILAR TO J.R. SMITH FIGURE 1670T

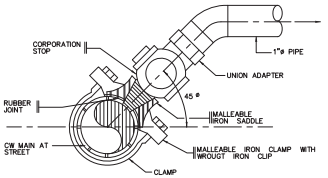
FLOOR DRAIN DETAILS
NOT TO SCALE



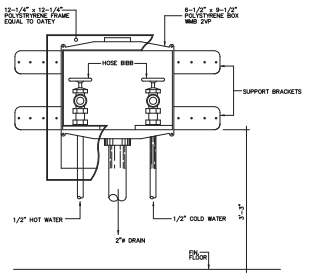

WALL CLEANOUT DETAIL
NOT TO SCALE




TYP. CNDUIT THRU MASONRY WALL DETAIL
NOT TO SCALE




TYPICAL WATER SERVICE CONN. WITH CLAMP DETAIL
NOT TO SCALE




WASHER MACHINE CONNECTION BOX
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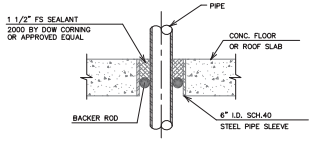
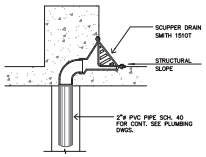
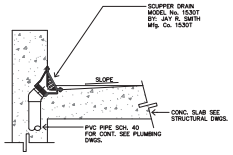



TYP. PIPE SLEEVE THROUGH ROOF & FLOOR DETAIL
NOT TO SCALE




ROOF DRAIN DETAIL (RD–1)
NOT TO SCALE




ROOF DRAIN DETAIL (RD–2)
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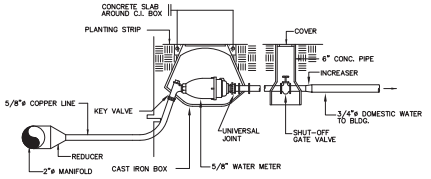
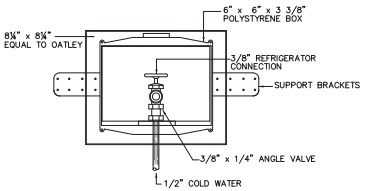



TYPICAL 5/8"WATER METER BANK INSTALLATION DETAIL
NOT TO SCALE




ICE MAKER CONNECTION BOX DETAIL
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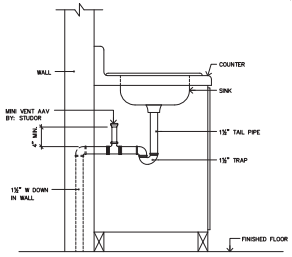
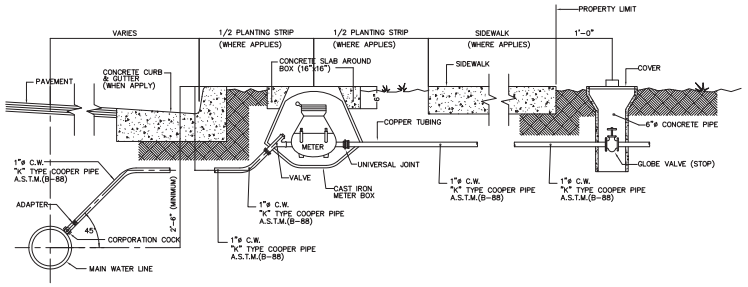



UNDER THE COUNTER AIR ADMITTANCE VALVE DETAIL
NOT TO SCALE




1" WATER METER CONNECTION DETAIL
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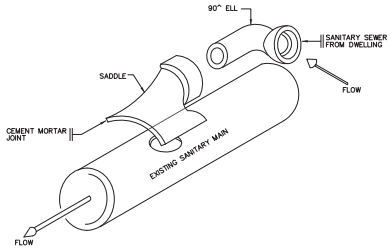


SADDLE CONNECTION DETAIL
NOT TO SCALE


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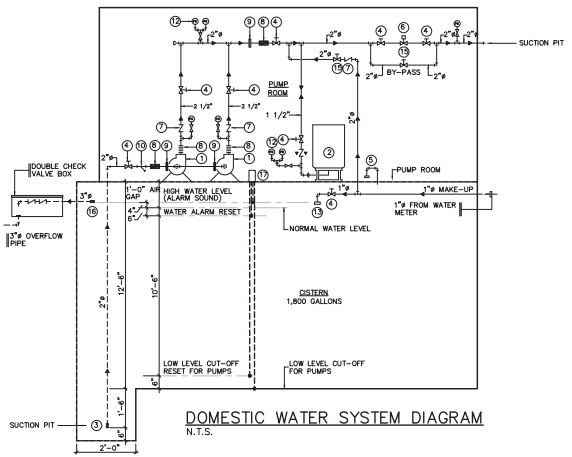
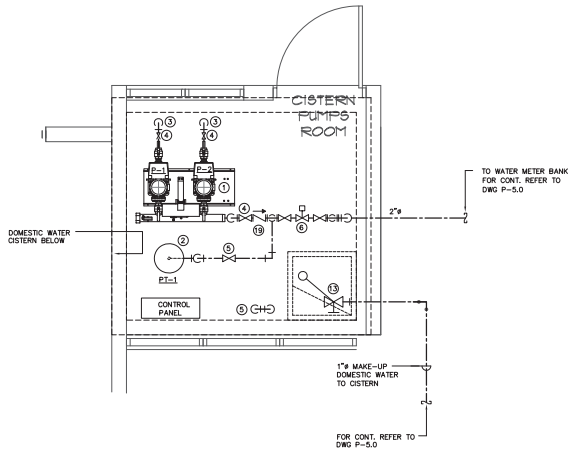



## DOMESTIC WATER SYSTEM DIAGRAM
N.T.S.




## DOMESTIC WATER PUMP ROOM BLOWUP
SCALE: 1/2" = 1'-0"

## VOLUME CAPACITY OF CISTERN

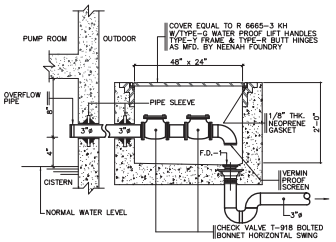
CISTERN AREA: 7'-10" X 7'-1" = 55.48 SQ. FT.
CISTERN CLEAR INSIDE HEIGHT: 6'-0"
AIR GAP ALLOWANCE: 1'-0"
WATER LEVEL INSIDE HEIGHT: 5'-0"
CISTERN WATER VOLUME: 55.48 SQ. FT. x 5'-0" = 277.40 CU. FT.
TOTAL WATER STORAGE CAPACITY: 277.40 x 7.48 = 2,074 GALLONS.
PROJECT DAILY CONSUMPTION: 7 APARTMENTS x 400 GALS/APARTMENT PLUS 1,735 SQ. FT. OF COMMERCIAL SPACE x 300 GALS/1,000 SQ. FT. = 2,800 + 520.5 GALLONS = 3,320.5 GALLONS
CISTERN RESERVE OF HALF DAY AS PER A.A.A. RULES AND REGULATION = 1,660.25 GALLONS

## CISTERN NOTES:

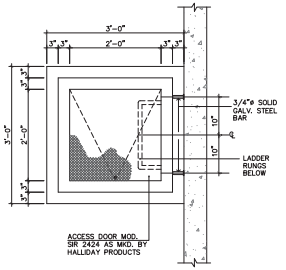
1. CISTERN WATERPROOFING SHALL BE "VANDEX SUPER" CAPILLARY / CRYSTALINE WATERPROOFING SLURRY BY VANDEX INTERNATIONAL LTD.
2. APPLY BITUMINOUS DAM PROOFING ON ALL EXTERIOR & UNDERGROUND WALLS AND UNDERGROUND SLABS, APPROVED EQUAL TO EMULSIFIED ASPHALT INC.
3. INSTALL VAPOR BARRIER AT BOTTOM SLABS AND FOOTINGS
4. ALL CONTROL WIRING IN THE PUMP ROOM AND CISTERN SHALL BE IN ACCORDANCE W/ THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
5. PLACE A DOUBLE CHECK VALVE IN OVERFLOW LINE.

## LEGEND:

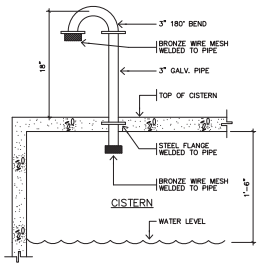
1. DOUBLE DOMESTIC PUMP SYSTEM, EACH PUMP CAPACITY 25 GPM @ 80 PSI, SIMILAR TO PENTAIR PVM(X)5-7 WITH A 3 HP, 230V, 3PH, 60 HZ MOTOR AND VARIABLE FREQUENCY DRIVE WITH PHASE CONVERTER, SIMILAR TO SJE RHOMBUS VARIOSPEED MODEL VS21-10.0-N1.
2. HYDROPNEUMATIC TANK, MOD. 170, CAPACITY TO BE 170 GALLONS. TANK TO HAVE A REPLACEABLE FLEXIBLE MEMBRANE TO SEPARATE AIR AND WATER.
3. 3" FLOW FLOMATIC FOOT VALVE, LEAD FREE BRONZE CONSTRUCTION
4. SHUT-OFF GATE VALVE NORMALLY OPEN
5. 3"ø CISTERN VENT
6. 2" PRESSURE REDUCING VALVE.
7. FLOMATIC CHECK VALVE, LEAD FREE BRONZE CONSTRUCTION
8. FLEXIBLE CONNECTION
9. FLANGE CONNECTION
10. STRAINER
11. FLOW SWITCH
12. SYSTEM PRESSURE SWITCHES TO CONTROL DOMESTIC PUMPS OPERATION.
13. FLOAT VALVE
14. FLOW CONTROL
15. GATE VALVE NORMALLY CLOSED
16. 3" OVERFLOW
17. PROBE HOLDER
18. CISTERN LADDER RUNGS
19. CHECK VALVE



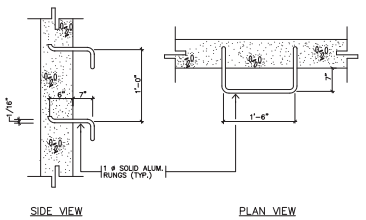

## CISTERN OVERFLOW & ACCESS DOOR DETAIL
N.T.S.



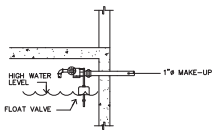

## ACCESS DOOR DETAIL
NOT TO SCALE




## CISTERN VENT DETAIL
NOT TO SCALE




## LADDER RUNG DETAIL
NOT TO SCALE




## FLOAT VALVE DETAIL
NOT TO SCALE

Yo, Francisco J. Maldi, ingeniero, licencia #13947, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que en base produzcan sin conocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OPA y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OPA.

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787-255-3660 lissanchezarana@gmail.com 787-360-3188

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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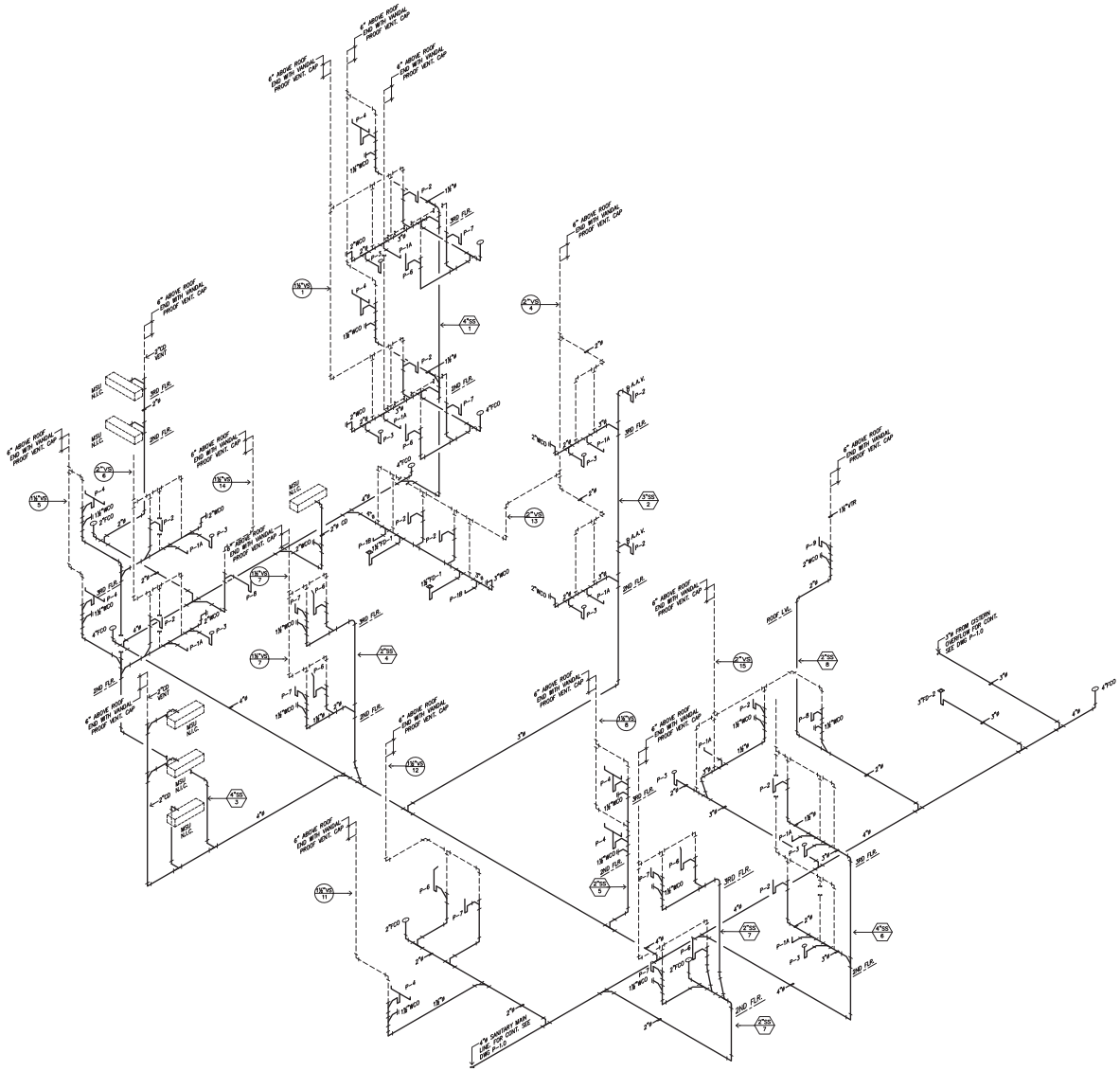
DRAWING TITLE
DOMESTIC WATER SYSTEM DETAILS & SPECS.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-12 |
| DATE 15/05/2019 | |



SANITARY ISOMETRIC

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

Yo, Francisco J. Matá, ingeniero, licencia #13647, 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 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 por mi parte por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPe.

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787-255-3690 | ssanchezarana@gmail.com 787-390-3189

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

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EDIFICIO DE USO MIXTO
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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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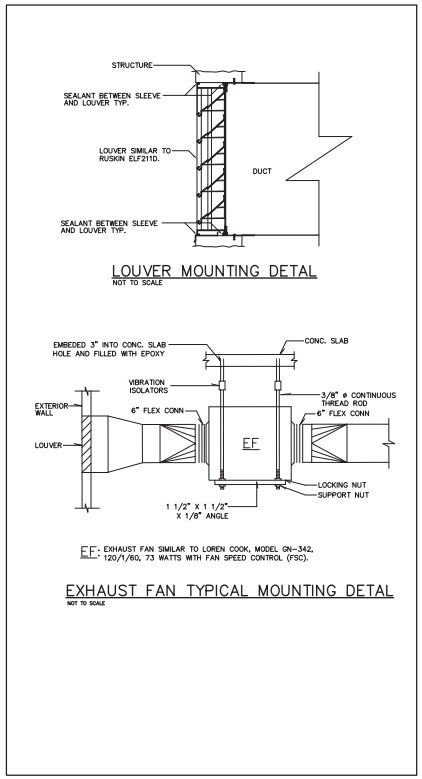
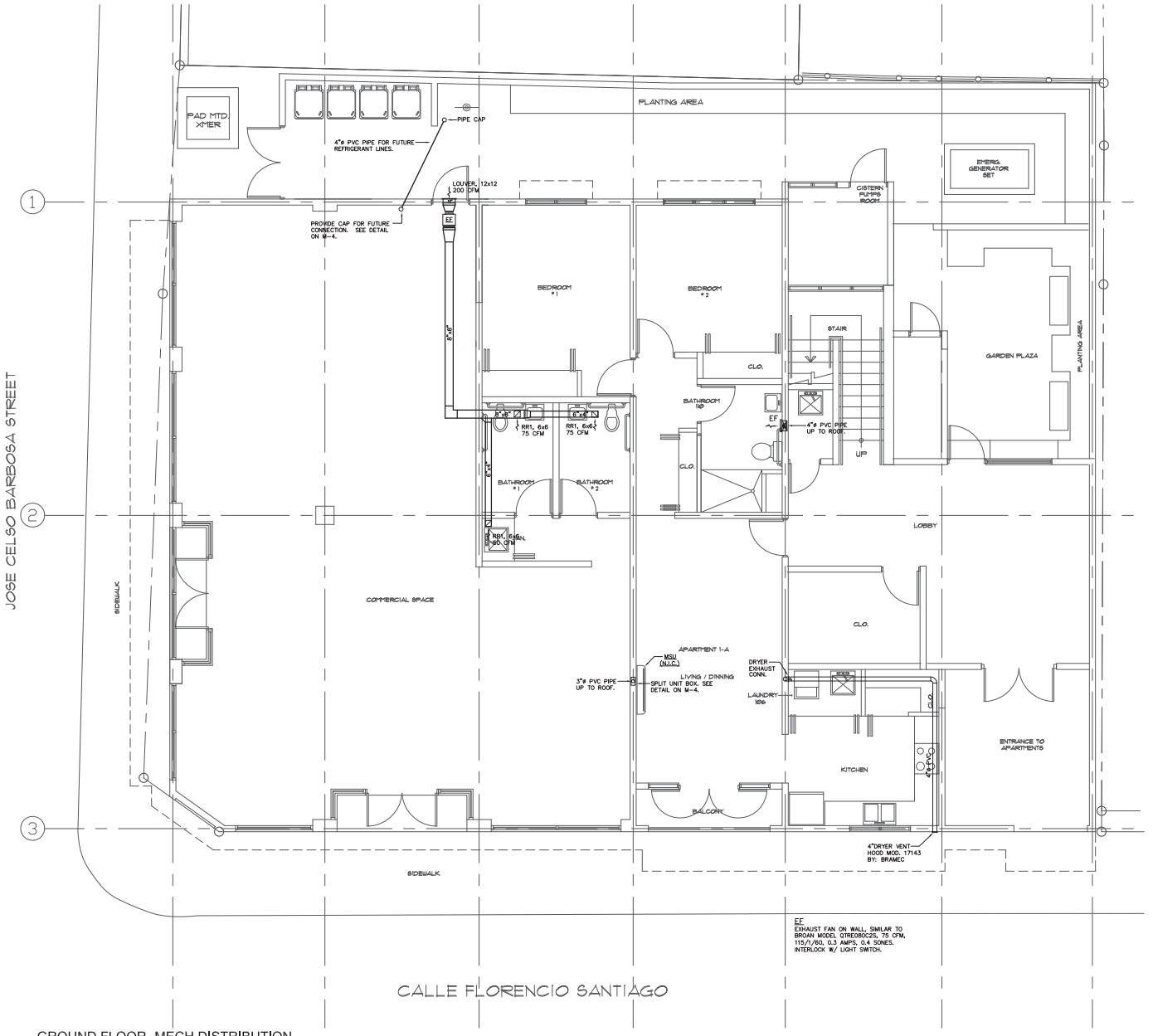
DRAWING TITLE
SANITARY
ISOMETRIC

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-13 |
| DATE 15/05/2019 | |




GROUND FLOOR- MECH DISTRIBUTION

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

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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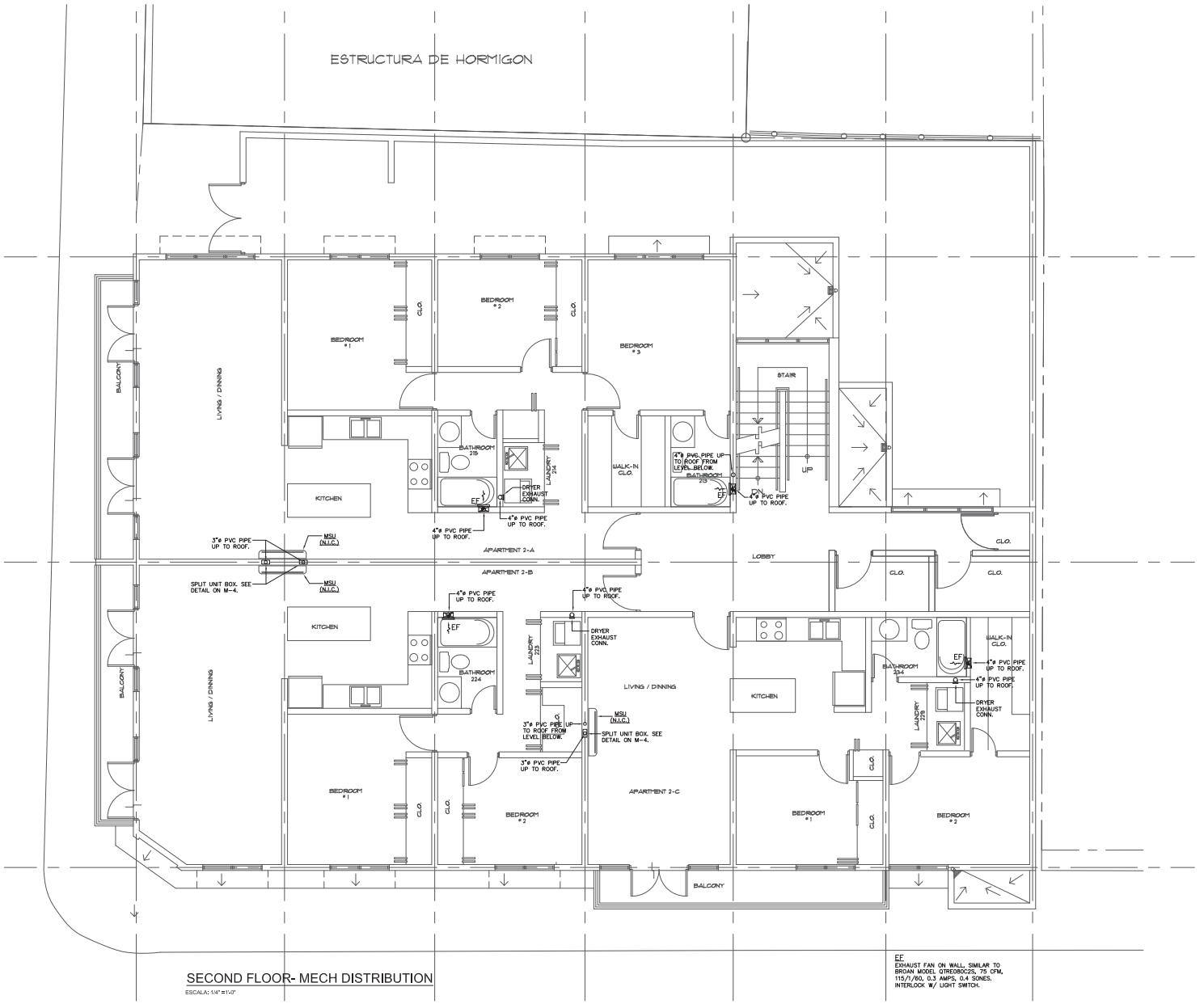
DRAWING TITLE
GROUND FLOOR
MECH. DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-1 |
| DATE 15/05/2019 | |




SECOND FLOOR- MECH DISTRIBUTION

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

EF
EXHAUST FAN ON WALL, SIMILAR TO BROAN MODEL QTREOBOCQ2S, 75 CFM, 115/1/60, 0.3 AMPS, 0.4 SONES. INTERLOCK W/ LIGHT SWITCH.

Yo, Francisco J. Maldi, ingeniero, licencia #13847, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haga producida sin conocimiento o por negligencia yo sea yo mi, mis agentes o empleados, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OPS y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OPS.

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

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( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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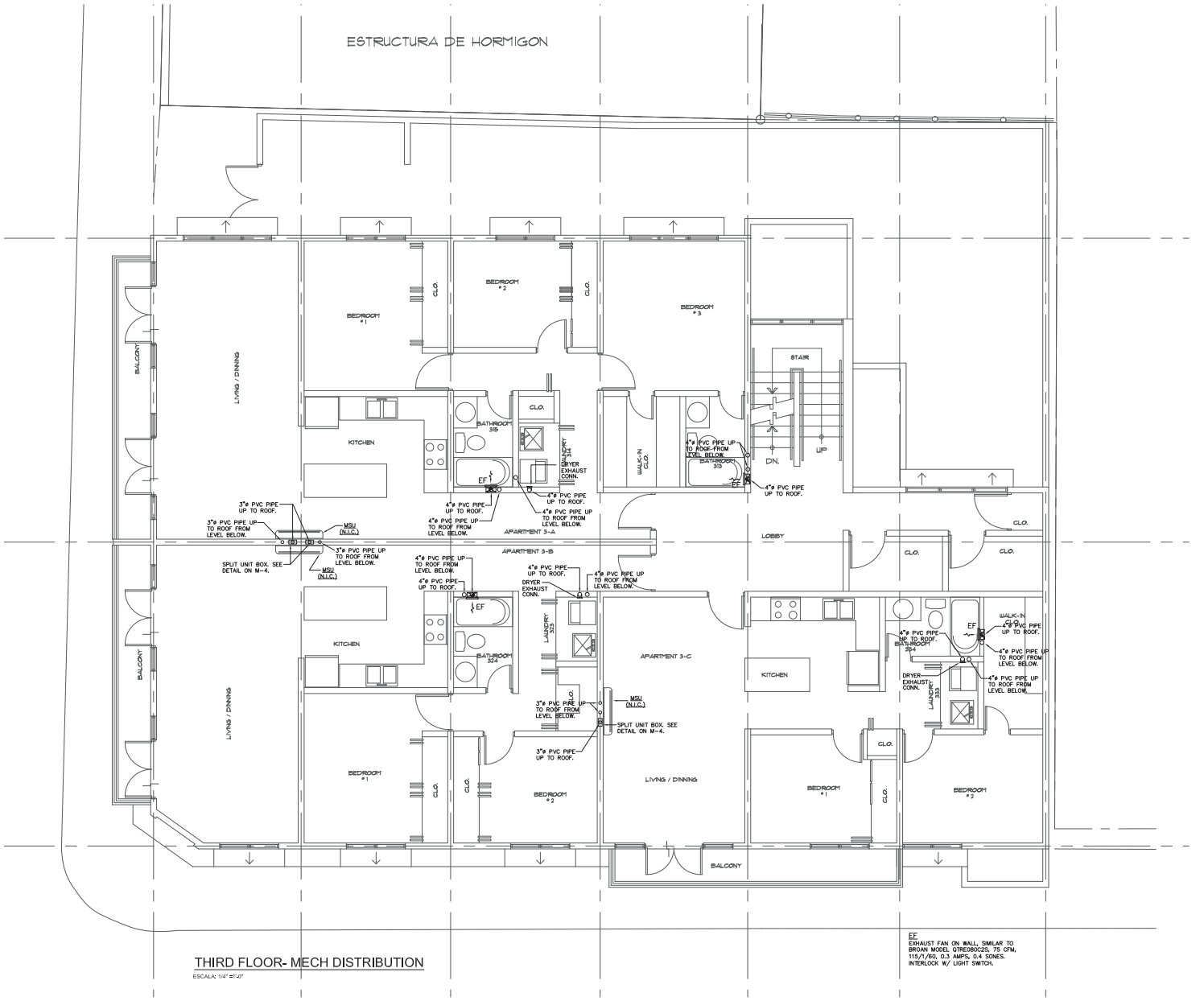
DRAWING TITLE
SECOND FLOOR
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-2 |
| DATE 15/05/2019 | |




THIRD FLOOR- MECH DISTRIBUTION

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

EF
EXHAUST FAN ON WALL, SIMILAR TO BROAN MODEL QTRE080C2S, 75 CFM, 115/1/60, 0.3 AMPS, 0.4 SONES. INTERLOCK W/ LIGHT SWITCH.

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787-255-3690 info@sanchezaranaarquitectos.com 787-790-3188

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
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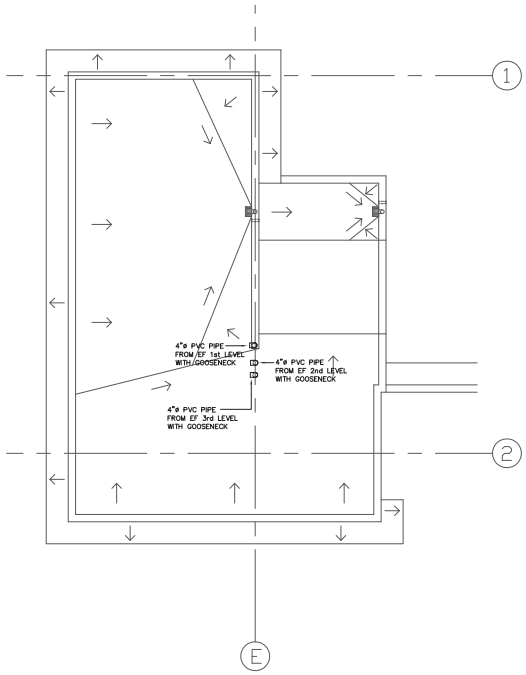
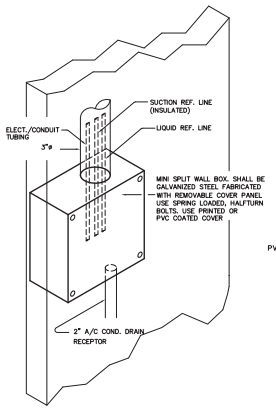
DRAWING TITLE
THIRD FLOOR
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED . | DRAWING |
| DRAWN | M-3 |
| DATE 15/05/2019 | |



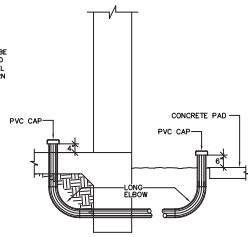

## STAIRS AND GAZEBO ROOF PLAN- PLUMBING DISTRIBUTION

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



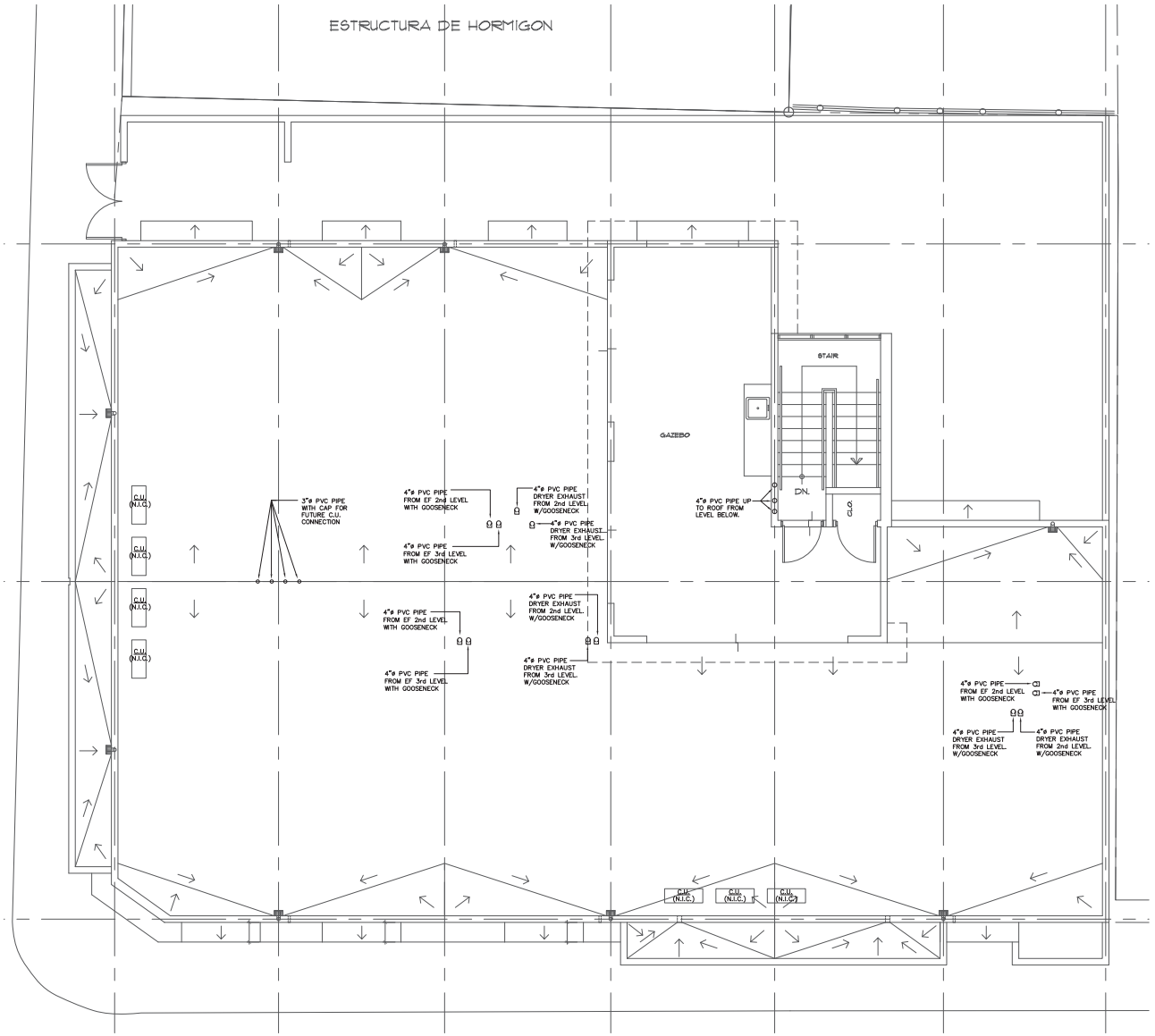

## WALL PANEL BOX DETAIL

NOT TO SCALE




## SPLIT UNIT PROVISION CONNECTION DETAILS

NOT TO SCALE




## ROOF PLAN- MECH DISTRIBUTION

ESCALA: 1/4" =1'-0"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787-255-3610 | hsanchez@sanchezarana.com | 787-390-3188


| NUM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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DRAWING TITLE

ROOF PLAN
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-4 |
| DATE 15/05/2019 | |

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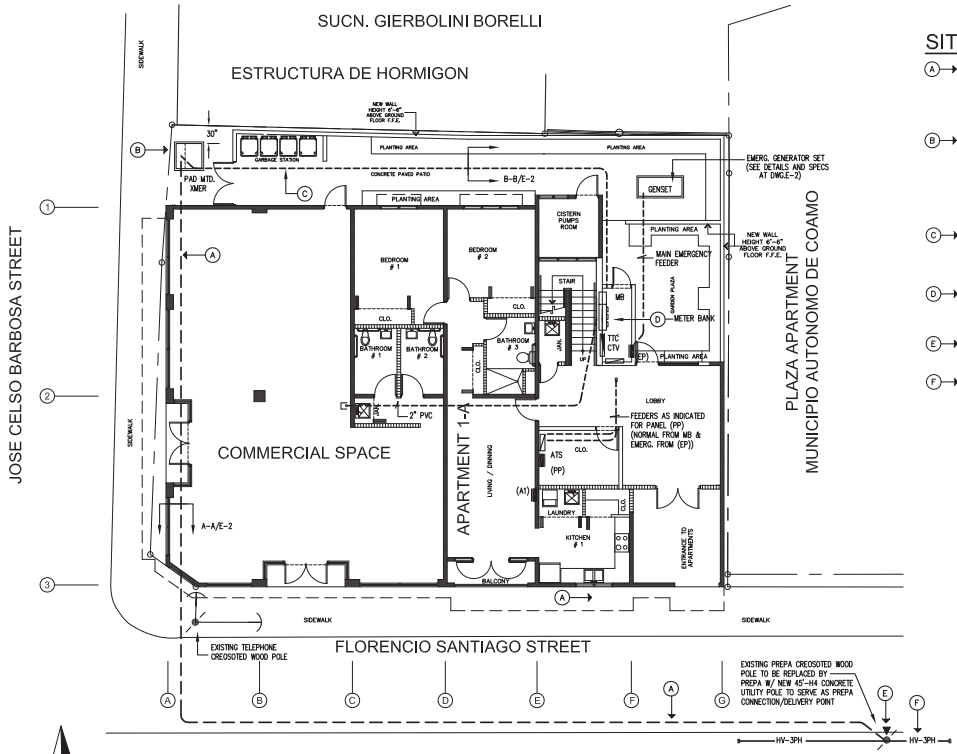



## SITE LEGEND: (FOR THIS DRAWING ONLY)

(A) → PRIMARY FEEDER, ONE SINGLE CONDUCTOR, #2 AWG COPPER, 15KV, CROSSLINKED POLYETHYLENE INSUL. (TR-XLP), SHIELDED, PVC JACKET AND ONE #2 XHHW2 IN 2 1/2" PVC SCHED.40 COND. W/ 1-2 1/2" PVC SCHED.40 SPARE CONDUIT BOTH CONCRETE ENCASED AT 48" BELOW FINISHED GRADE PER P.R.E.P.A. STDS. URD-6-7. SEE SECTION A-A DETAIL AT DRAWING E-2.

(B) → LOW PROFILE P.R.E.P.A. APPROVED PAD MOUNTED TRANSFORMER 1PH, 7.62KV PRIMARY TO 120/240V SECONDARY, OIL IMMERSE SELF COOLING, 100KVA, RADIAL FEED TYPE WITH 200A, DEAD FRONT, ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK WITH ONE FAULT INDICATOR, 2-2 1/2% TAPS ABOVE/BELOW NOMINAL VOLTAGE, POLYMER LIGHTNING ARRESTER, STAINLESS STEEL ENCLOSURE AS PER P.R.E.P.A. STANDARDS URD-19,20,23 (TRANSFORMER WITH IMPPROVED LOSSES CHARACTERISTICS PER P.R.E.P.A.'S LATEST/D.O.E. REQUIREMENTS).

(C) → MAIN SECONDARY FEEDER CONSISTING OF: 2 SETS (3)#250 MCM XLP-90° & 1#2 XHHW-2 GROUND-2" PVC SCHED.40) AND 1-2" PVC SCHED.40 SPARE CONDUIT. SEE SECTION B-B DETAIL AT DRAWING E-2.

(D) → P.R.E.P.A. METER BANK 1PH-3W-S/N-120/240-500A-22KAIC MAIN BREAKER, GALVANIZED STEEL, RAINTIGHT/N3R.

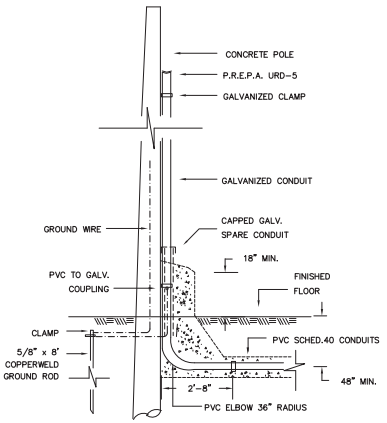
(E) → EXISTING P.R.E.P.A. CREOSOTED WOOD POLE TO SERVE AS P.R.E.P.A. CONNECTION/DELIVERY POINT, TO BE REPLACED BY P.R.E.P.A. WITH NEW 45'-H4 CONCRETE UTILITY POLE W/ P.R.E.P.A. STANDARDS URD-2A-4-5, CP-C1, T-1, K-1, STL-10 BY P.R.E.P.A. AT THIS CONTRACTOR'S EXPENSE.

(F) → EXISTING P.R.E.P.A. OVERHEAD LINE TO SERVE THIS PROJECT 3PH-13.2KV-3W-#1/0-ACSR.

LOCATION PLAN SCALE: 1=20,000
LAMBERT: X= 208114.3382 Y= 227234.8452

## ELECTRICAL SITE PLAN

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




P.R.E.P.A. STD. URD-4

N.T.S.

## PREPA: GENERAL NOTES

1- THESE DRAWINGS MUST COINCIDE WITH THE REGISTERED DRAWINGS AT THE "PERMITS AND REGULATION ADMINISTRATION" (ARPE).
2- PROJECT'S OWNER IS RESPONSIBLE TO OBTAIN ALL ENDORSEMENTS, PERMITS, AND RIGHT OF WAYS REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES BEFORE THE CONSTRUCTION BEGINS.
3- PROJECT'S OWNER IS RESPONSIBLE TO CONTRACT A LICENSED AND REGISTRERED ENGINEER TO INSPECT THE ELECTRICAL WORKS IN IN COMPLIANCE WITH LAW NO.7 OF JULY 19, 1985 (AS AMENDED), AND WITH PREPA'S "REGLAMENTO DE CERTIFICACION DE PLANOS DE PROYECTOS DE CONSTRUCCION ELECTRICA". OWNER IS RESPONSIBLE TO PROVIDE PRIVATE INSPECTOR'S INFO TO PREPA'S LOCAL OFFICE BEFORE THE CONSTRUCTION BEGINS.
4- ALL CONSTRUCTION SHALL BE DONE IN THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE "NATIONAL ELECTRIC CODE" AND THE "NATIONAL ELECTRIC SAFETY CODE" SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT, IN WHICH CASE, LOCAL REGULATIONS SHALL GOVERN. ELECTRICAL CONSTRUCTION AND EQUIPMENT SHALL BE IN COMPLIANCE WITH LATEST PREPA, IEEE, NFPA, NEMA, AND ANSI REGULATIONS AND STANDARDS.
5- CONTRACTOR IS NOT AUTHORIZED TO MAKE ANY CHANGES TO THE ELECTRICAL DESIGN. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE DESIGNER OR PROJECT'S PRIVATE INSPECTOR ANY DEVIATION THEREFROM, INCLUDING THOSE ARISING FROM DRAWINGS AND SPECS INTERPRETATION, WORKS EXECUTION, OR FIELD CONDITIONS.
6- CONTRACTOR MUST INFORM PREPA'S DISTRIBUTION ENGINEERING DEPARTMENT (LOCAL OFFICE) WHEN THE CONSTRUCTION WILL START FIFTEEN (15) DAYS IN ADVANCED MINIMUM, BY SUBMITTING THE DOCUMENT "NOTIFICACION DE COMIENZO DE OBRAS ELECTRICAS".
7- PROJECT'S PRIVATE INSPECTOR AND THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE TO COORDINATE A PRE-CONSTRUCTION MEETING WITH PREPA'S LOCAL OFFICE BEFORE THE CONSTRUCTION BEGINS.
8- ALL WORK ON EXISTING PREPA ENERGIZED LINES, INCLUDING FINAL CONNECTION, SHALL BE DONE BY PREPA AT CONTRACTOR EXPENSES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT, MATERIALS, AND LABOR. CONTRACTOR IS RESPONSIBLE TO REQUEST A COST ESTIMATE FROM PREPA, WHICH SHALL BE VALID FOR A PERIOD OF THREE (3) MONTHS FROM EXPEDITION DATE.
9- ALL WORK ON/THRU EXISTING PREPA RIGHT OF WAYS IS TERMINALLY PROHIBITED UNLESS FULLY AUTORIZED IN WRITTEN BY PREPA.
10- PREPA WILL NOT APPROVE NEITHER WILL ENERGIZE ANY PROJECT WHICH PROVED INVADING EXISTING RIGHT OF WAYS OR NOT COMPLYING WITH SAFETY CLEARANCE REQUIREMENTS.
11- METER SHALL BE, BY ALL MEANS, ACCESIBLE TO PREPA PERSONNEL.
12-CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UNDERGROUND TRENCHING THRU PUBLIC STREETS, AVENUES, AND HIGHWAYS WITH "CENTRO DE EXCAVACIONES DE LA COMISION DE SERVICIO PUBLICO" ACCORDING TO EXECUTIVE ORDER OE-1997-42.

## PREPA: MATERIALS

1- ELECTRICAL EQUIPMENT SHALL BE CONSTRUCTED ACCORDING TO IEEE, ANSI, NEMA, AND ASTM STANDARDS.
2- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH PREPA'S "DISTRIBUTION DEPARTMENT" THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS BE APPROVED BY PREPA. FOR ANY NON-COMPLYING EQUIPMENT OR MATERIALS PREPA PRESERVES ITS RIGHT TO REJECT OR NOT ACCEPT SUCH EQUIPMENT.
3- WITHIN ONE MILE OF SEA SHORE ALL ELECTRICAL EQUIPMENT AND MATERIALS, INCLUDING TRANSFORMERS AND TRANSCLOSURES, SHALL BE STAINLESS STEEL (ALUMINUM CONST. FOR METER SOCKETS AND METER BANKS IS APPROVED). FEEDER RISERS AT POLES SHALL BE PVC SCHED.80 OR FIBERGLASS AS APPROVED BY P.R.E.P.A.
4- FOR PRIMARY UNDERGROUND SYSTEMS, PREPA APPROVED CABLE TERMINATIONS (STRESS CONES) SHALL BE USED, 15KV RATING FOR DISTRIBUTION SYSTEMS AND 46KV FOR 38KV LINES.
5- FOR PRIMARY OVERHEAD SYSTEMS, PREPA APPROVED POLYMER (SILICON RUBBER) INSULATORS SHALL BE USED, 15KV RATING FOR DISTRIBUTION SYSTEMS AND 46KV FOR 38KV LINES.
6- TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT OR APPARATUS WHICH WILL BE HANDLED-TO OR TRANSFER TO PREPA AS PROPIETOR SHALL BE PROPERLY TAG OR IDENTIFIED WITH A PROPERTY NO. WHICH WILL BE SUPPLIED BY PREPA'S DIST. DEPARTMENT LOCAL OFFICE.

## PREPA: SPECIAL NOTES

1- PREPA WILL NOT ENERGIZE THE FINAL ELECTRICAL WORK UNTIL ALL REQUIRED RIGHT OF WAYS PER PREPA'S "REGLAMENTO DE SERVIDUMBRES" ARE DULY CEDED AND CERTIFIED BY PREPA'S LEGAL DIVISION. THIS NOTE APPLIES TO RIGHT OF WAYS WITHIN AND OUTSIDE THE BOUNDARIES OF THE PROJECT.
2- CONTRACTOR SHALL COORDINATE WITH PREPA'S LOCAL METERING DEPARTMENT OFFICE "Oficina de Irregularidades y Consumo de Energia Electrico (ICE) – Region Ponce" BOTH AVAILABILITY OF METERING EQUIPMENT AND MATERIALS TO BE SUPPLIED BY PREPA AND THE PROPOSED LOCATION OF SUCH EQUIPMENT.
3- THERE SHALL NOT BE WATER, NOR SEWAGE PIPE LINES OR OTHER UTILITIES UNDER THE FLOOR OF SUBSTATIONS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT OR APPARATUS.
4- PROJECT'S OWNER SHALL CONTRIBUTE/PAY PREPA THE FOLLOWING:
■ THE SUM OF $ 1,100.00 FOR IMPROVEMENTS REQUIRED IN THE LOCAL ELECTRICAL DISTRIBUTION SYSTEM.
☐ THE ELECTRICAL IMPROVEMENTS REQUIRED PER PREPA'S "EVALUACION DE PROYECTO" FROM –
OWNER'S CONTRIBUTION IS DETERMINED ACCORDING TO PROJECT'S KVA ELECTRICAL LOAD AND LATEST "REGLAMENTO PARA DETERMINAR Y COBRAR LAS APORTACIONES DE PERSONAS O INSTITUCIONES EN PROYECTOS DE DESARROLLO".

## PREPA: SYSTEMS

1- CONTRACTOR IS RESPONSIBLE TO CARRY OUT ALL TESTS FOR ALL PRIMARY AND SECONDARY CABLES OF UNDERGROUND SYSTEMS. CABLE TESTS SHALL BE IN COMPLIANCE WITH PREPA STANDARDS AND RESULTS SHALL BE WITHIN PREPA GUIDELINES. TESTS SHALL BE COORDINATED WITH PREPA'S INSPECTION DEPT. LOCAL OFFICE.
2- PRIMARY CABLES FOR UNDERGROUND SYSTEMS SHALL BE PROPERLY INSTALLED THRU PULLING EYE OR BASKET GRIP METHODS, MAKING SURE THAT CABLE MAXIMUM TENSIONS ARE NOT EXCEEDED. CABLES SHALL BE PROTECTED FROM ABRASIONS AND MOISTURE WHEN STORAGED AND AT TIME OF INSTALLATION.
3- ALL COVERS FOR MANHOLES TO BE INSTALLED IN GREEN AREAS SHALL BE PROVIDED WITH A REINFORCED CONCRETE PAD PER PREPA STANDARD URD-52.
4- TRENCHING FOR UNDERGROUND SYSTEMS MUST BE INSPECTED BY PREPA PERSONNEL PRIOR TO BE COVERED AND COMPACTED. TRENCHING THRU VEHICULAR DRIVEWAY SHALL BE CONCRETE ENCASED PER PREPA STANDARDS, MINIMUM CLEARANCE FROM OTHER UTILITIES SHALL BE THIRTEEN INCHES (13").
5- CONTRACTOR SHALL SUPPLY ONE SPARE FUSE FOR EACH PRIMARY FUSE HOLDER IN THE PROJECT.
6- GROUNDING MAT FOR ELECTRICAL SYSTEM SHALL BE CONSTRUCTED WITH EQUALS OR APPROVED EQUALS TO "HY GROUND" COMPRESSION CONNECTORS AND/OR CADWELL JOINTS (THERMO-WELD) WHERE APPLICABLE.
7- GROUNDING MAT FOR DISTRIBUTION SYSTEMS SHALL HAVE A MAX. RESISTANCE OF 10 OHMS. THE CONTRACTOR SHALL VERIFY THIS CONDITION IN THE FIELD. AN ELECTRODE GROUNDING ROD SHALL BE PROVIDED EVERY FOUR (4) POLES MINIMUM (OR 1000 LINEAL FEET MAX.) AND AT EACH TRANSFORMER LOCATION PER PREPA STANDARDS.
8- ALL SPARE CONDUITS SHALL BE PROVIDED WITH A 1/4"ϕ NYLON PULL WIRE (FISHWIRE).
9- POLE CONCRETE BASE SHALL BE PROVIDED W/ 2-4" PVC SCHED.40 SPARE CONDUIT SLEEVES PER PREPA STANDARDS. CONCRETE BASES MUST BE INSPECTED BY PREPA PERSONNEL DURING CONSTRUCTION.
10- CONCRETE BASES FOR THE INSTALLATION OF TRANSCLOSURE SHALL BE COORDINATED WITH PREPA AND EQUIP. SHOP DRAWINGS SO BE CONSTRUCTED TO PROVIDE SUFFICIENT CLEARANCE BETWEEN CONDUITS TERMINATION AND TRANSCLOSURE CABLE TERMINALS, FOR MINIMUM BENDING RADIUS REQUIRED BY SHIELDED CABLES AND STRESS CONES.

## DESIGNER'S CERTIFICATION

1-I certify that I am a licensed engineer or architect, menber of the collge of my profession and authorized by this project's owner to present these construction plans to PREPA.
2-In compliance with Law No. 7 of July 19, 1985, as amended, known as "Construction Plan's Certification Law", I certify that the electric plans of this project were designed following all codes, standards, norms and regulations approved by PREPA, Puerto Rico Permit Management Office (OGPe).
3-The information included within this document was designed/drawed by Eng.Carlos H. Urrutia, PR License No. 9852.

DESIGNER'S SIGNATURE

DESIGNER
Carlos H. Urrutia Ferrer
PR ENGINEER LIC. NO.
9852

CARLOS H. URRUTIA FERRER LIC. NO. 9852 PUERTO RICO

PUERTO RICO ELECTRICAL POWER AUTHORITY

ENDORSEMENT

PROJECT NAME: FLORENCIO SANTIAGO #26 – COAMO
PROJECT NUMBER: – LOAD (KVA): 100

| ENDORSED BY | REVISION |
|---|---|
| | 1 |
| | 2 |
| | 3 |
| DATE: | 4 |

1-PREPA endorses the electric design shown in these construction plans based on the certification presented by the designer in compliance with Law No. 7 of July 19, 1985, as amended.
2-PREPA does not assume responsability over the certified design. PREPA's endorsement does not relieve the designer from the professional responsability assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code; National Electric Safety Code; construction standards, norms and regulations from PREPA and other government agencies as well as federal and state laws ruling by the time construction begins.
3-This endorsement is valid for two years. If electrical works have begun during this year, with prior notification to PREPA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during a two year period, this endorsement will lose its validity.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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO (COMERCIO Y VIVIENDA)
CALLE FLORENCIO SANTIAGO #26
BARRIO PUEBLO, COAMO
COMAO, PUERTO RICO


CARLOS H. URRUTIA FERRER, PE
consulting electrical engineer
Urb.Hill Manstons, BG1 Calle 68
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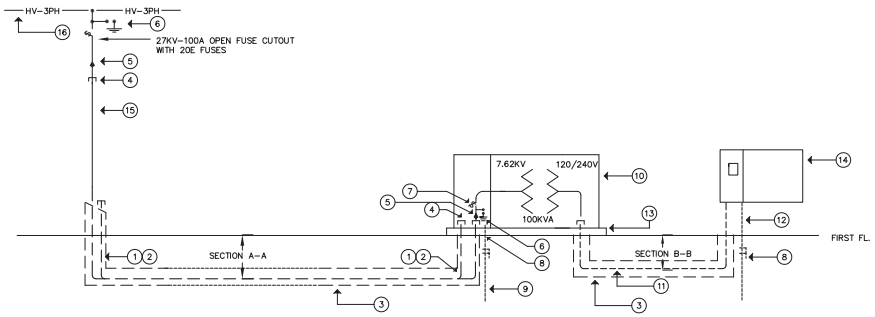
telephone: 787-760-2718
email: urrutia.eng@gmail.com


Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE
ELECTRICAL SITE PLAN

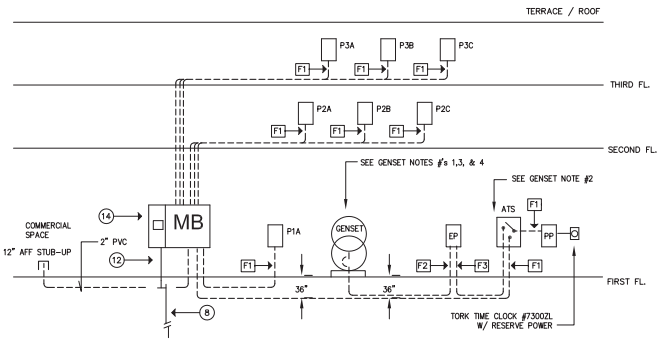
| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-1 |
| DATE | |




## ONE LINE DIAGRAM

N.T.S.

*USE PVC SCHED.40 FOR UNDERGROUND INSTALLATION, USE RIGID GALV. STEEL FOR STUB-UPS OR EXTERIOR EXPOSED




## BUILDING ONE LINE DIAGRAM

N.T.S.

## LEGEND:

1. PRIMARY FEEDER, 1/C-SINGLE CONDUCTOR, #2 AWG COPPER, 15KV., CROSSLINKED POLYETHYLENE INSULATION (TRXLP), SHIELDED, PVC JACKET AND ONE #2 XHHW2 IN 2" PVC SCHEDULE 40 CONDUIT.
2. 1-2" PVC SCHEDULE 40 EMPTY CONDUIT CAPPED AT BOTH ENDS.
3. 4" CONCRETE ENVELOPE.
4. INSULATED SEALING BUSHING, SIZE AND TYPE AS REQUIRED.
5. OUTDOOR TYPE PRE-FABRICATED STRESS CONE, 15KV, P.R.E.P.A. APPROVED TYPE.
6. 10KV LIGHTNING ARRESTERS, METAL OXIDE POLYMER COATED.
7. ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK (20E) WITH ONE FAULT INDICATOR.
8. 3/4"X 10'-0" COPPERWELD GROUND ROD (1 REQUIRED MIN.), PROVIDE GROUND CLAMP EQUAL OR APPROVED EQUAL TO "HY GROUND" COMPRESSION CONNECTORS AND/OR "CADWELL JOINTS".
9. #1/0 AWG BARE COPPER WIRE-1" RGMC FOR GROUNDING PURPOSE.
10. LOW PROFILE P.R.E.P.A. APPROVED PAD MOUNTED TRANSFORMER 1PH, 7.62KV PRIMARY TO 120/240V SECONDARY, OIL IMMERSE SELF COOLING, 100KVA, RADIAL FEED TYPE WITH 200A, DEAD FRONT, ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK WITH ONE FAULT INDICATOR, 2-2 1/2% TAPS ABOVE/BELOW NOMINAL VOLTAGE, POLYMER LIGHTNING ARRESTER, STAINLESS STEEL ENCLOSURE AS PER P.R.E.P.A. STANDARDS URD-19,20,23 (TRANSFORMER WITH IMPROVED LOSSES CHARACTERISTICS PER P.R.E.P.A.'S LATEST/D.O.E. REQUIREMENTS).
11. MAIN SECONDARY FEEDER CONSISTING OF: 2 SETS (3#250 MCM XLP-90° & 1#2 XHHW-2 GROUND-2" PVC SCHED.40) AND 1-2" PVC SCHED.40 SPARE CONDUIT. SEE SECTION B-B DETAIL AT DRAWING E-2.
12. 1#2 THWN-2 GROUND WIRE-1" RIGID GALVANIZED CONDUIT TO 3/4" x 10' COPPERWELD GROUND ROD AND CLAMP.
13. 8" CONCRETE PAD, SEE P.R.E.P.A. STANDARD URD-23.
14. P.R.E.P.A. METER BANK 1PH-3W-S/N-120/240-500A-22KAIC MAIN BREAKER, GALVANIZED STEEL, RAINTIGHT/N3R.
15. EXISTING P.R.E.P.A. CREOSOTED WOOD POLE TO SERVE AS P.R.E.P.A. CONNECTION/DELIVERY POINT, TO BE REPLACED BY P.R.E.P.A. WITH NEW 45'-H4 CONCRETE UTILITY POLE W/ P.R.E.P.A. STANDARDS URD-2A-4-5, CP-C1, T-1, K-1, STL-10 BY P.R.E.P.A. AT THIS CONTRACTOR'S EXPENSE.
16. EXISTING P.R.E.P.A. OVERHEAD LINE TO SERVE THIS PROJECT 3PH-13.2KV-3W-#1/0-ACSR.

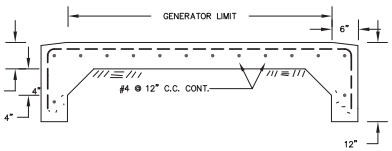
## GENERATOR NOTES:

1-DIESEL DRIVEN EMERGENCY GENERATOR 35 KW/ 35 KVA AT 1.0 POWER FACTOR - 1,800 RPM - 120/240 VOLTS - 1PH - 3W - S/N WITH CRITICAL TYPE MUFFLER, BATTERIES, BATTERY CABLES, 125 GALLONS DUAL WALL SUB-BASE FUEL TANK, FUEL LINE, FUEL PUMP, ENGINE MOUNTED INSTRUMENT'S PANEL W/ VOLTMETER, AMMETER, FREQUENCY METER & ALL ENGINE RELATED INSTRUMENTS. LOW OIL PRESSURE, HIGH TEMPERATURE AND OVER SPEED ALARMS AND SHUT DOWN, BATTERY CHARGER AND 2P - 175 AMPS OUTPUT BREAKER, EQUAL OR SIMILAR TO ONAN #DGHCB WITH WEATHER PROTECTIVE ENCLOSURE WITH MOUNTED SILENCER / EMERGENCY GENSET SHALL COMPLY WITH "EPA's" LATEST TIER EMISSIONS REQS.

2-AUTOMATIC TRANSFER SWITCH 100 AMPS. - 2P - 120/240V- 1PH - 3W - S/N WITH EXCERSIZER CIRCUIT, TIME DELAY AND UNDER VOLTAGE RELAYS, NEMA 1 ENCLOSURE, EQUAL OR SIMILAR TO ONAN OTIII SERIES.

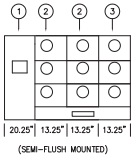
3-FUEL TANK SHALL BE FILLED-UP AT TIME OF PROJECT COMPLETION.

4-CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK AS PART OF THIS INSTALLATION ALL REGISTRATIONS AND PERMITS REQUIRED FOR LEGAL OPERATION, INCLUDING BUT NOT LIMITED TO P.R.E.P.A.'S "REGISTRO DE PLANTAS DE EMERGENCIA" AND "JUNTA DE CALIDAD AMBIENTAL" FUEL AND EMISSION FORMS.




## GENERATOR CONCRETE PAD STRUCTURAL DETAIL

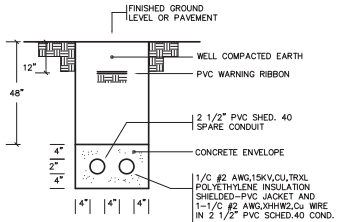
N.T.S.




## MB (METER BANK)

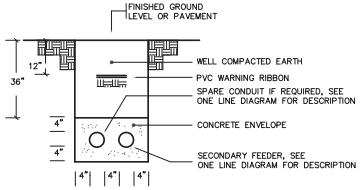
## MB LEGEND:

1. METER BANK MAIN BREAKER DEVICE 1PH-3W-S/N-120/240V-500A-22KAIC, GALVANIZED STEEL, RAINTIGHT/NEMA 3R.
2. THREE POSITION METER-BREAKER DEVICE 1PH-3W-S/N-120/240V-100A WITH 3-2P-100A BREAKERS FOR APART. PANELS, RAINTIGHT/N3R.
3. THREE POSITION METER-BREAKER DEVICE 1PH-3W-S/N-120/240V-200A WITH 3-2P-100A BREAKERS FOR APART. PANEL, COMMERCIAL SPACE PANEL, AND FOR PUBLIC AREAS PANEL (PP), RAINTIGHT/N3R.




## SECTION A-A

N.T.S.




## SECTION B-B

N.T.S.

## SECONDARY FEEDER SCHEDULE:

- F1 → TYPICAL APARTMENT PANEL FEEDER 3#2 & 1#6 GROUND-1 1/2" PVC
- F2 → PANEL (EP) FEEDER 3#2/0 & 1#6 GROUND-2" PVC & 1-1°C FOR CONTROL WIRING
- F3 → (ATS) FEEDER 3#2 & 1#6 GROUND-1 1/2" PVC & 1-1°C FOR CONTROL WIRING

### DESIGNER'S CERTIFICATION

1-I certify that I am a licensed engineer or architect, member of the collge of my profession and authorized by this project's owner to present these construction plans to PREPA.

2-In compliance with Law No. 7 of July 19, 1985, as amended, known as "Construction Plan's Certification Law", I certify that the electric plans of this project were designed following all codes, standards, norms and regulations approved by PREPA, Puerto Rico Permit Management Office (OGPe).

3-The information included within this document was designed/drawed by Eng.Carlos H. Urrutia, PR License No. 9852.

DESIGNER'S SIGNATURE

DESIGNER
Carlos H. Urrutia Ferrer
PR ENGINEER LIC. NO.
9852

CARLOS H. URRUTIA FERRER LICENSED ENGINEER LIC. NO. 9852 PUERTO RICO

### PUERTO RICO ELECTRICAL POWER AUTHORITY

ENDORSEMENT

PROJECT NAME: FLORENCIO SANTIAGO #26 - COAMO

PROJECT NUMBER: - LOAD (KVA): 100

| ENDORSED BY | REVISION |
|---|---|
| DATE: | 1 |
| | 2 |
| | 3 |
| | 4 |

1-PREPA endorses the electric design shown in these construction plans based on the certification presented by the designer in compliance with Law No. 7 of July 19, 1985, as amended.

2-PREPA does not assume responsability over the certified design. PREPA's endorsement does not relieve the designer from the professional responsability assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code; National Electric Safety Code; construction standards, norms and regulations from PREPA and other government agencies as well as fedral and state laws ruling by the time construction begins.

3-This endorsement is valid for two years. If electrical works have begun during this year, with prior notification to PREPA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during a two year period, this endorsement will lose its validity.


SANCHEZ ARANA ARQUITECTOS
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illesanchezarana@yahoo.com


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

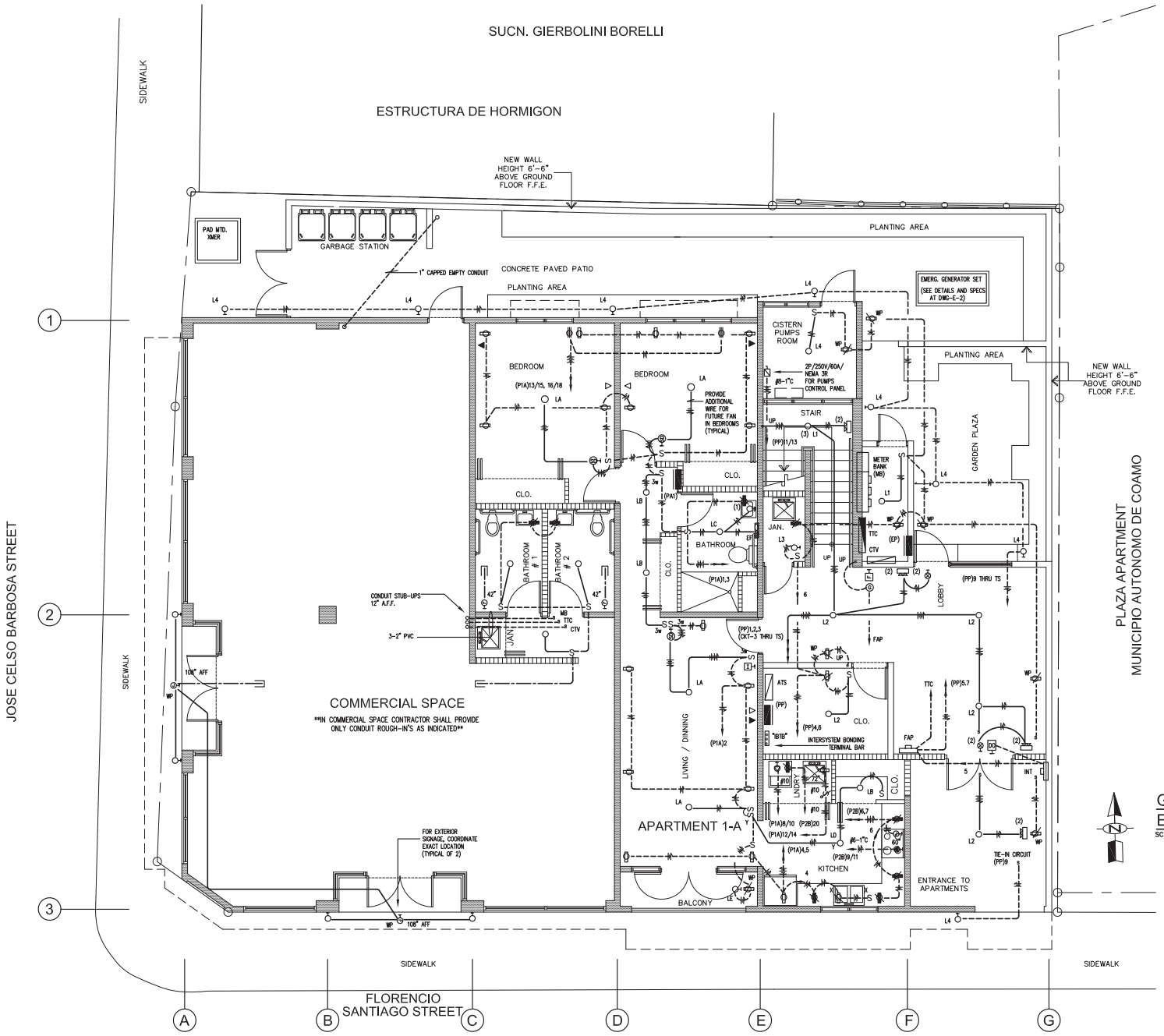
EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA) #26
CALLE FLORENCIO SANTIAGO
BARRIO PUEBLO, COAMO
COMAO, PUERTO RICO


CARLOS H. URRUTIA FERRER, PE
consulting electrical engineer
Urb.Hill Manslons, BG1 Calle 68
San Juan, PR 00926-4681
telephone: 787-760-2718
email: urrutia.eng@gmail.com


Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con Jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE
ONE LINE DIAGRAM

| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-2 |
| DATE | |




## GROUND FLOOR ELECTRICAL PLAN

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

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA)
CALLE FLORENCIO SANTIAGO #26
BARRIO PUEBLO, COAMO
COMAO, PUERTO RICO


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DRAWING TITLE
FIRST FL. ELECTRICAL PLAN

| PROJECT | SHEET NO. |
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| DESIGNED | DRAWING |
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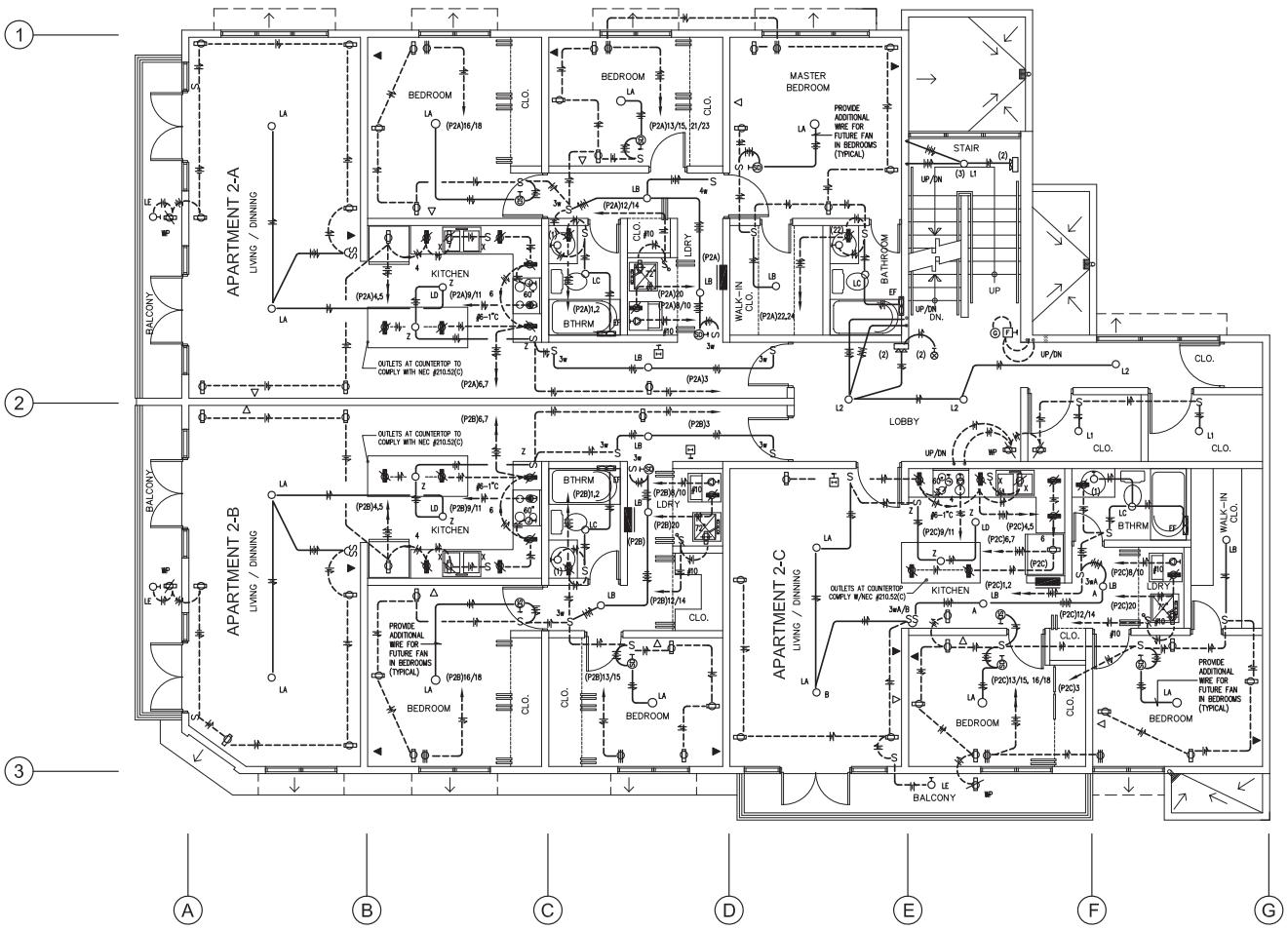
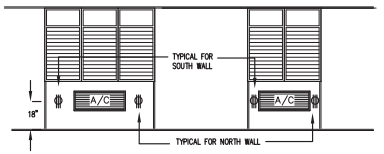
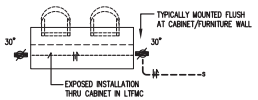
| DATE | |




TYPICAL A/C POWER OUTLET INSTALLATION DETAIL

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




TYPICAL COUNTERTOP ISLE OUTLET INSTALLATION DETAIL

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

SECOND FLOOR ELECTRICAL PLAN

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

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA) #26
CALLE FLORENCIO SANTIAGO
BARRIO PUEBLO, COAMO
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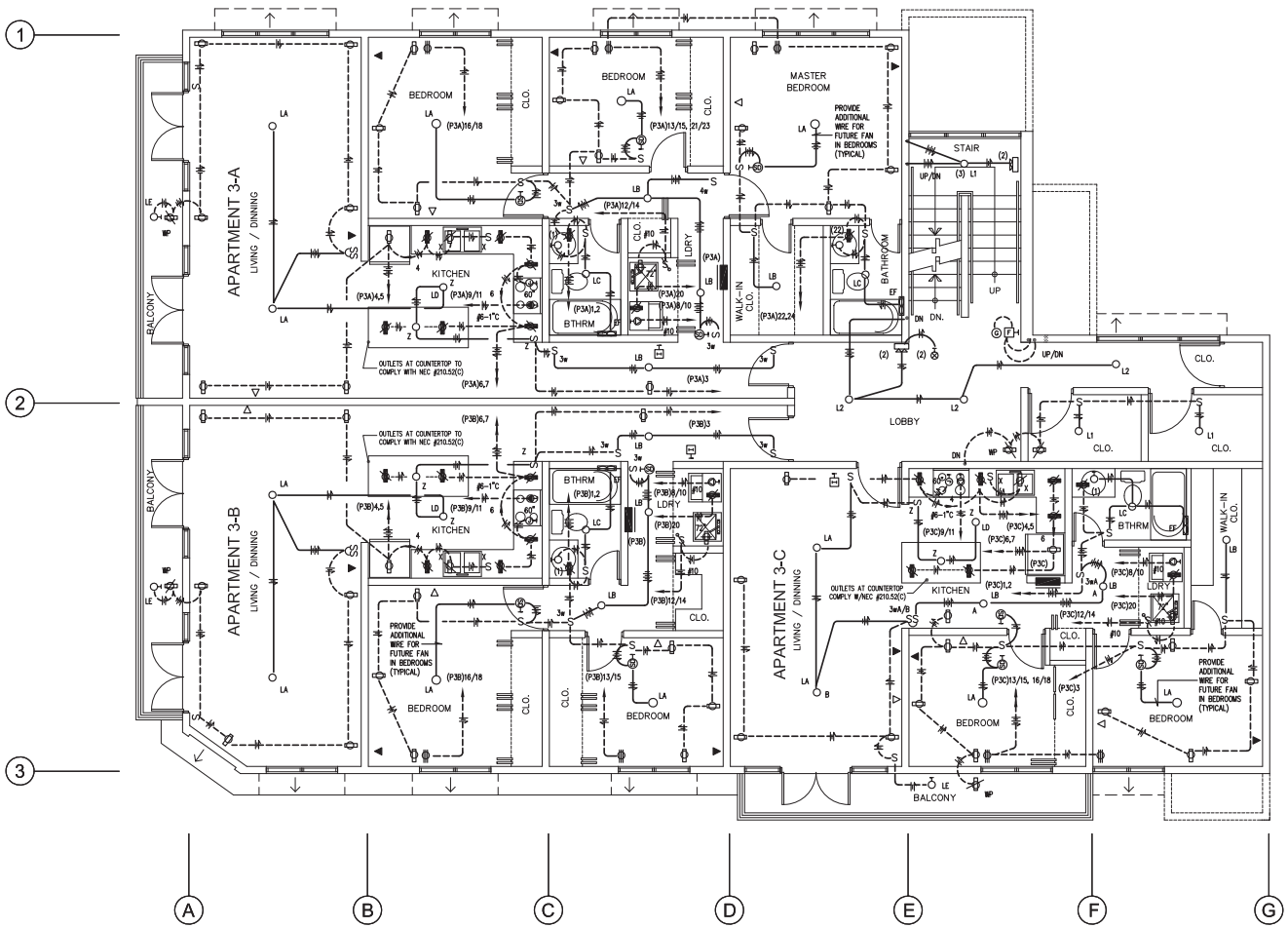
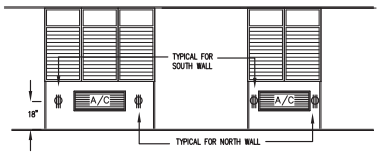
DRAWING TITLE

SECOND FL. ELECTRICAL PLAN

| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-4 |
| DATE | |

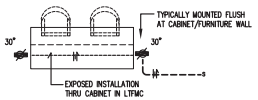
CARLOS H. URRUTIA FERRER LICENCIADO LIC. NO. 9852 PUERTO RICO




TYPICAL A/C POWER OUTLET INSTALLATION DETAIL

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




TYPICAL COUNTERTOP ISLE OUTLET INSTALLATION DETAIL

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

THIRD FLOOR ELECTRICAL PLAN

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


SANCHEZ ARANA ARQUITECTOS

J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 787-390-3788
lilisanchezarana@yahoo.com


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA)
CALLE FLORENCIO SANTIAGO #26
BARRIO PUEBLO, COAMO
COMAO, PUERTO RICO


CARLOS H. URRUTIA FERRER, PE

consulting electrical engineer

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DRAWING TITLE

THIRD FL.
ELECTRICAL PLAN

| PROJECT | SHEET NO. |
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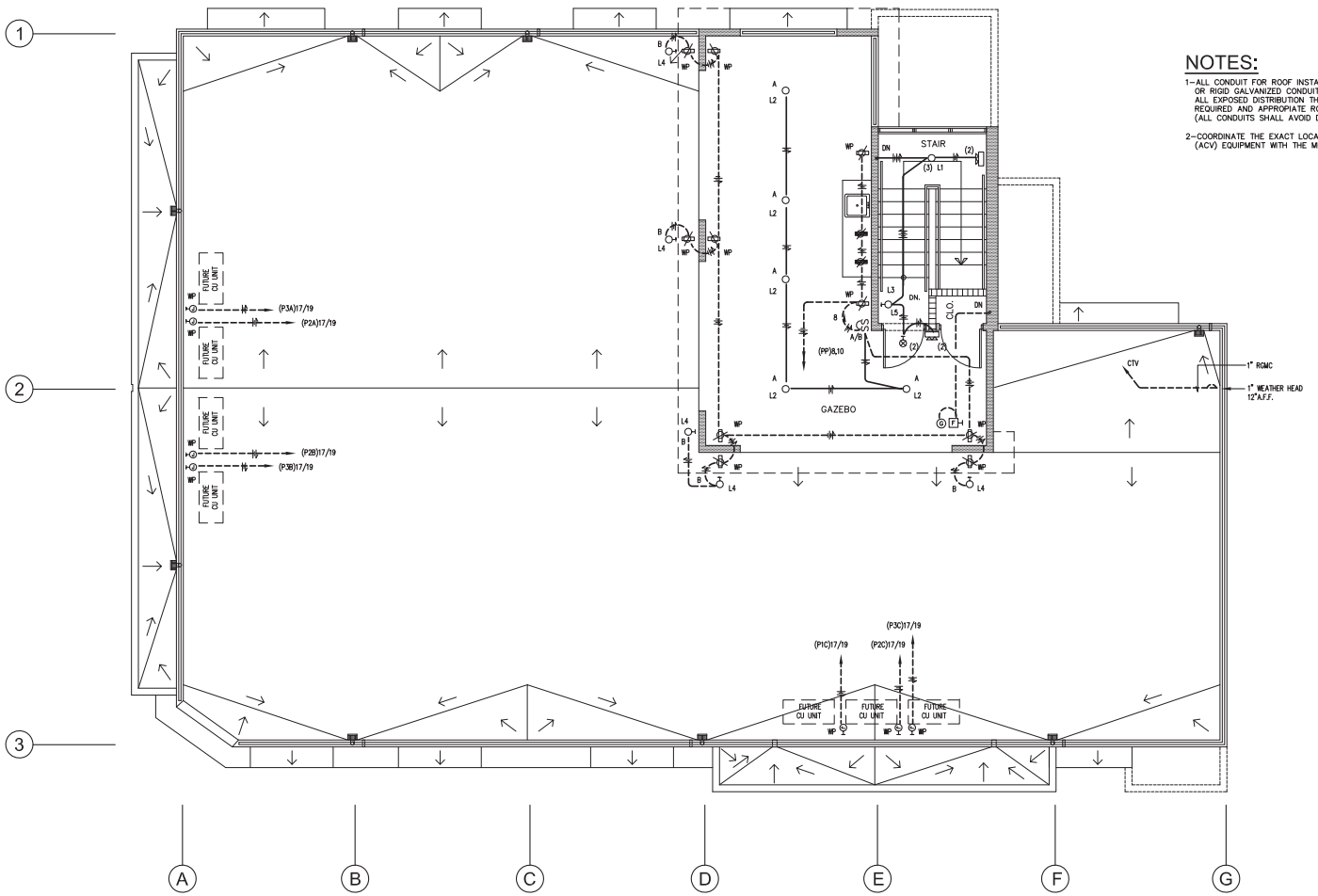
| DATE | |




ROOF
ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

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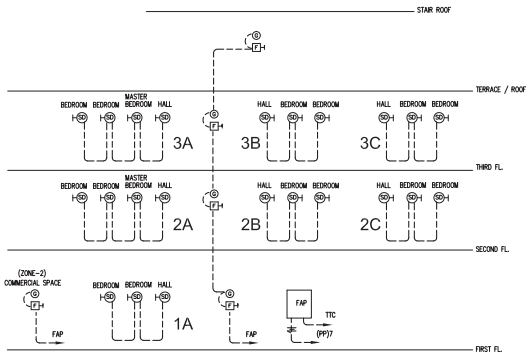
DRAWING TITLE
ROOF / TERRACE
ELECTRICAL PLAN

| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-6 |
| DATE | |

CARLOS H. URRUTIA FERRER INGENIERO LICENCIADO LIC. NO. 9852 PUERTO RICO




## FIRE ALARM RISER DIAGRAM AND APART. SMOKE ALARMS

N.T.S.

APT. FIRE ALARM SMOKE DETECTORS:
1-ALL CONDUIT 1/2" PVC MINIMUM 2-ALL APT. SMOKE DETECTORS FHA APPROVED TYPE FOR SERIES ACTIVATION 3-TYP. CONTROL WIRING AS REQUIRED FOR SERIES ACTIVATION.

## FIRE ALARM LEGEND:

FAP — LOW VOLTAGE TWO-ZONE SYSTEM FIRE ALARM CONTROL PANEL EQUAL OR SIMILAR TO EDWARDS 575IB MOUNTED AT 5'-0" A.F.F. (SURFACE MOUNTED)

F — NON-CODED FIRE ALARM STATION WALL MOUNTED EQUAL OR SIMILAR TO EDWARDS CAT. NO. 270-SPO MOUNTED AT 4'-0" A.F.F. WITH VANDALPROOF COVER MODEL STI1100.

G — FIRE ALARM AUDIBLE/VISUAL SIGNAL DEVICE WALL MOUNTED EQUAL OR SIMILAR TO EDWARDS CAT. NO. 8322B-002 MOUNTED AT 7'-0" A.F.F. (A.D.A. APPROVED).

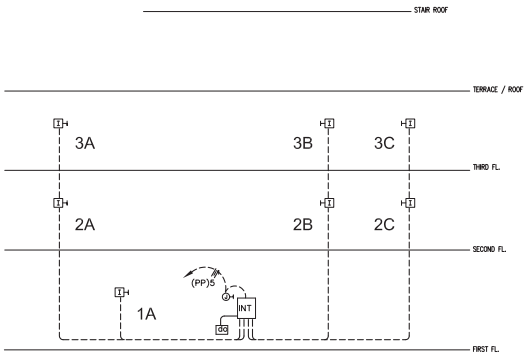
F/T — FIRE PROTECTION SYSTEM FLOW/TAMPER SWITCH CONTACT FURNISHED BY OTHERS BUT CONNECTED BY THIS CONTRACTOR.

## DESCRIPTION OF OPERATION:

OPERATION OF A PULL STATION, DETECTOR OR OTHER INITIATING DEVICE WILL CAUSE ALL ALARM SIGNALS TO SOUND. AUXILIARY CIRCUIT CONTACTS FOR FIRE DEPARTMENT SIGNALLING OR OTHER PURPOSES ARE PROVIDED. THE SIGNALS CONTINUE TO SOUND, UNTIL MANUALLY SILENCED. THE ACTIVATED STATION MUST BE RETURNED TO NORMAL CONDITION AND THE CONTROL UNIT RESET BUTTON SUBSEQUENTLY DEPRESSED TO RETURN THE UNIT TO NORMAL CONDITION. SMOKE DETECTORS AUTOMATICALLY RESET UPON DEPRESSION OF THE RESET BUTTON. IN THE EVENT OF BUILDING ELECTRICAL SUPLLY FAILURE, THE SYSTEM WILL AUTOMATICALLY SWITCH TO A SELF-CONTAINED EMERGENCY STANDBY BATTERY.

## FIRE ALARM NOTES:

1-CONDUITS SHALL BE 3/4" DIAMETER MINIMUM UNLESS OTHERWISE NOTED (PVC SCHED.40 FOR INTERIOR, RGMC FOR EXPOSED EXTERIOR).
2-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
3-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.
4-FIRE ALARM SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-72, "NATIONAL FIRE ALARM CODE".
5-FIRE ALARM SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-70, "NATIONAL ELECTRICAL CODE", ART#760 "F.A. SYSTEMS".
6-FIRE PROTECTION SYSTEM FLOW SWITCHES FURNISHED BY THE MECH. CONTRACTOR SHALL BE CONNECTED TO THE FAP.




## INTERCOM SYSTEM RISER DIAGRAM

N.T.S.

## INTERCOM SYSTEM LEGEND:

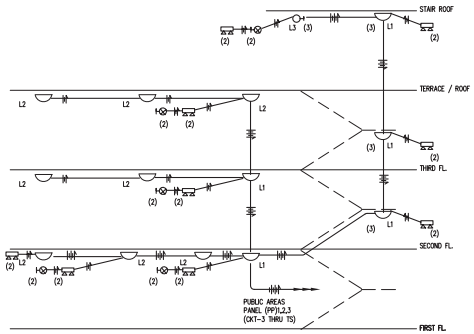
INT — VESTIBULE CENTRAL ENTRANCE PANEL VANDALPROOF EQUAL OR SIMILAR TO FARFISA SERIES TM MODEL BTC-T2M08-337C

T — APARTMENT INTERCOM STATION EQUAL OR SIMILAR FARFISA MODEL BTC-PV100 MOUNTED AT 48" A.F.F.

dd — DOOR OR GATE RELEASE MODEL PO001.

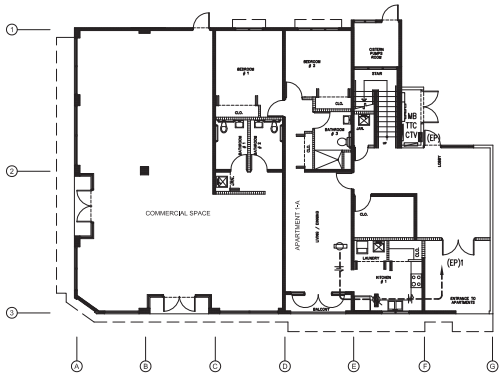
## INTERCOM SYSTEM NOTES:

1-CONDUITS SHALL BE 3/4" DIAMETER MINIMUM UNLESS OTHERWISE NOTED (PVC SCHED.40 FOR INTERIOR, RGMC FOR EXPOSED EXTERIOR).
2-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
3-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.

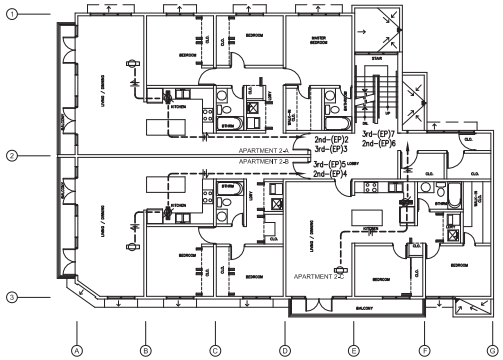



## STAIR LIGHTING RISER DIAGRAM

N.T.S.




1st FLOOR



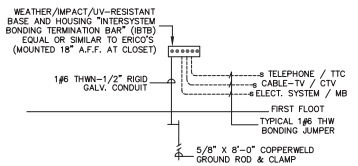

TYP. FOR 2nd & 3rd FLOORS

NOTES:

1-ALL EMERGENCY RECEPTACLES SHALL BE "BROWN" COLORED AND IDENTIFIED AT PLATES AS "OUTLET IN EMERGENCY CIRCUIT ONLY".

## EMERGENCY DISTRIBUTION FOR APARTMENTS

SCALE: 3/32" = 1'-0"




## INTERSYSTEM BONDING TERMINATION DETAIL (IBTB)

N.T.S.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illiasanchezarana@yahoo.com


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

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DRAWING TITLE
ELECTRICAL RISER DUAGRAMS

| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-7 |
| DATE | |

## SYMBOL LEGEND:

| | |
|---|---|
| ○ | CEILING LIGHTING OUTLET WITH 3/8" FIXTURE STUD (PROVIDE BLANK PLATE IF LUMINAIRE IS NOT SPECIFIED). |
| (F) | OUTLET "CEILING FAN RATED" WITH 3/8" FIXTURE STUD. |
| ⊙ | RECESSED CEILING LIGHTING FIXTURE SELECTED BY ARCHITECT. |
| | STEPLIGHTING OUTLET/BACKBOX WITH 3/8" FIXTURE STUD, 18" A.F.F. |
| | TAMPER RESISTANT DUPLEX RECEPTACLE 20A–125V–GROUNDING TYPE, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT G.F.C.I. TYPE. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. AND G.F.C.I. TYPE. |
| | SAME AS ABOVE BUT SPLIT–WIRED, FOR SWITCH CONTROL. |
| | DRYER RECEPTACLE 30A–250V–3W–GD. TYPE, 2'–6" A.F.F. |
| | WATER HEATER RECEPTACLE 30A–250V–3W–GD. TYPE, 2'–6" A.F.F. |
| | OVEN RECEPTACLE 50A–250V–3W–GD. TYPE, 2'–6" A.F.F. (OR FLOOR STUB–UP). |
| | METER SOCKET. |
| S | SINGLE POLE SWITCH 20A–120V, 4'–0" A.F.F. |
| 3W S | SAME AS ABOVE BUT THREE (3) WAY SWITCH. |
| 4W S | SAME AS ABOVE BUT FOUR (4) WAY SWITCH. |
| | SLIDE DIMMER SWITCH 600W–125V, 4'–0" A.F.F., SPECIFICATION GRADE, EQUAL OR SIMILAR TO LUTRON'S NOVA THIN SERIES (LED DIMMABLE). |
| 3W | SAME AS ABOVE BUT THREE (3) WAY SWITCH. |
| | DOUBLE POLE SWITCH WITH PILOT LIGHT 30A–250V, 4'–0" A.F.F. |
| F $ | LIGHT AND FAN DUAL SLIDE–TO–OFF DIMMER ,125V, AT 4'–0" A.F.F. EQUAL TO LUTRON'S SKYLARK SERIES (S2–LFSQ–WH). |
| | CONDUIT THRU HUNG CEILING, WALLS OR EXPOSED THRU JOIST. |
| | CONDUIT IN FLOOR SLAB OR WALLS. |
| | CONDUIT RUN THRU CEILING SLAB OR WALLS. |
| | RUN TO PANELBOARD; TICKS INDICATE # OF WIRES AND ARROWS # OF CIRCUITS (HOT–NUTRAL–GROUND MINIMUM). |
| (SD) H (SD) | CEILING OR WALL MOUNTED SMOKE DETECTOR, FHA APPROVED TYPE, W/ BATTERY BACK–UP, 7'–6" A.F.F. IF WALL MOUNTED, FOR SERIES CON. |
| | LIGHTING AND/OR POWER PANELBOARD, SEE PANEL SCHEDULE. |
| J | JUNCTION BOX IN HUNG CEILING OR AS NOTED. |
| J H | WALL MOUNTED JUNCTION BOX, HEIGHT AS INDICATED ON DWGS. |
| | FLOOR BOX FLUSH WITH FLOOR WATERTIGHT WITH COVER PLATE AND ALL REQUIRED FITTINGS (CAST–IRON FOR WATER–TIGHTNESS ROUND OR RECTANGULAR WITH WITH BRUSHED BRASS COVER AS REQUIRED SIMILAR TO WALKER CAT.NO. SERIES 880. |
| H | WALL LIGHTING OUTLET WITH 3/8" FIXTURE STUD, 7'–0" A.F.F. UNLESS OTHERWISE INDICATED (PROVIDE BLANK PLATE IF LUM IS NOT SPECIFIED). |
| EF | EXHAUST FAN (BY OTHERS) CONNECTED BY THIS CONTRACTOR, EXACT LOCATION PER MECHANICAL DRAWINGS. |
| | HEAVY DUTY SAFETY SWITCH. SIZE, TYPE AND LOCATION AS INDICATED IN DRAWINGS (FUSIBLE WHEN INDICATED). |
| | FRACTIONAL HORSEPOWER MANUAL STARTER WITH OVERLOAD RELAY, 115/230V, 4'–6" A.F.F. AND NEMA I ENCLOSURE WHEN INDOORS. |
| | CABLE T.V. OUTLET, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| | TELEPHONE OUTLET, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| WP | DENOTES WEATHER PROOF. |
| GFI | DENOTES "GROUND FAULT CIRCUIT INTERRUPTER" PROTECTION. |
| "E" | DENOTES EXISTING FACILITY TO REMAIN OR BE RE–USED. |
| "RE" | DENOTES EXISTING FACILITY TO BE RELOCATED AS INDICATED. |
| "ER" | DENOTES EXISTING FACILITY TO BE REMOVED OR RELOCATED. |
| | EXISTING CONDUIT RUN THRU CEILING, FLOOR OR WALLS TO REMAIN OR BE REWIRED WITH NEW CABLE AS INDICATED. |
| | POWER RECEPTACLE 20A–250V–3W–GD. TYPE, 18" A.F.F. OR AS REQUIRED FOR A/C UNIT (OUTLET TO BE READILY ACCESIBLE AT SIDE OR BELOW UNIT, COORD. W/ ARCH.) |
| | SAME AS ABOVE 250V–30A–3W–GROUNDING TYPE. |
| H | CEILING OR WALL JUNCTION BOX 2"x 4" FOR AUDIO/VIDEO SYSTEM, SIZE OF BOX AND HEIGHT AS OTHERWISE INDICATED: S1–2"x 4" AT 7'–6" A.F.F. S2–4"x 4"x 3" AT 5'–0" A.F.F. S3–2"x 4" "FS" BOX AT 6" ABOVE GROUND LEVEL W/ WEATHER PROOF PLATE. |
| M V I O H | INTERCOM SYSTEM DEVICES, REFER TO INTERCOM SYSTEM LEGEND AT DRAWING E–7. |

## PANEL SCHEDULE:

| PANEL DESIG. | DESCRIPTION | MAIN AMPS. | CIRC. NO. | L O A D | BREAKER POLE | BREAKER FRAME | BREAKER TRIP | |
|---|---|---|---|---|---|---|---|---|
| (P1A) (P2A) (P2B) (P2C) (P3A) (P3B) (P3C) TYP. OF 7 UNITS | ___PANELBOARD @_LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V ___SURFACE @_FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D @_QO___NQOD___NEHB___I–LINE *1–ONLY AT (P2A)/(P3A) SPACE AT OTHERS | 100A M.L.O. | 1 | BATHROOM RECEPTACLE | 1 | AFCI | 20 | |
| | | | 2,3 | LIGHTING | 1 | AFCI | 20 | |
| | | | 4–7 | SMALL APPLIANCES | 1 | AFCI | 20 | |
| | | | 8/10 | DRYER | 2 | QO | 30 | |
| | | | 9/11 | RANGE | 2 | QO | 50 | |
| | | | 12/14 | WATER HEATER | 2 | QO | 30 | |
| | | | 13/15 | A/C UNIT | 2 | QO | 20 | |
| | | | 16/18 | A/C UNIT | 2 | QO | 20 | |
| | | | 17/19 | A/C MINI–SPLIT SYSTEM | 2 | QO | 20 | |
| | | | 20 | WASHING MACHINE | 1 | AFCI | 20 | |
| | | | 21/23 | A/C UNIT | 2 | QO | 20 | *1 |
| | | | 22 | BATHROOM RECEPTACLE | 1 | AFCI | 20 | *1 |
| | | | 24 | LIGHTING | 1 | AFCI | 20 | *1 |
| | | | 25–30 | SPACE | 1 | QO | – | |
| (PP) | @_PANELBOARD___LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V @_SURFACE___FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D ___QO @_NQOD___NEHB___I–LINE | 100A M.L.O. | 1,2,3 | STAIR/LOBBY/EMERG. LIGHTING | 1 | QOB | 20 | |
| | | | 4 | STORAGE LIGHTING | 1 | QOB | 20 | |
| | | | 5 | INTERCOM SYSTEM | 1 | QOB | 20 | |
| | | | 6 | EXTERIOR RECEPTACLE | 1 | QOB | 20 | |
| | | | 7 | FIRE ALARM PANEL | 1 | QOB | 20 | |
| | | | 8,10 | ROOF GAZEBO LIGHTING | 1 | QOB | 20 | |
| | | | 9 | EXT./PLAZA LIGHTING THRU TS | 1 | QOB | 20 | |
| | | | 11/13 | WATER PUMPS CONTROL PANEL | 2 | QOB | 50 | |
| | | | 12,14 | SPARE | 1 | QOB | 20 | |
| | | | 15–20 | SPACE | 1 | QOB | – | |
| (EP) | @_PANELBOARD___LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V ___SURFACE @_FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D ___QO @_NQOD___NEHB___I–LINE | 225A M.L.O. | 1–7 | APARTMENT CIRCUITS | 1 | QOB | 20 | |
| | | | 8/10 | PANEL (PP) | 2 | QOB | 100 | |
| | | | 9,11,12 | SPACE | 1 | QOB | – | |

## LUMINAIRE SCHEDULE:

| DESIG. | DESCRIPTION | LAMPS | MANUFACTURER | REMARKS |
|---|---|---|---|---|
| L1 | ARCHITECTURAL CEILING MOUNTED POLYCARBONATE OPAL LENS 13.5" DIAMETER ROUND, WHITE FINISH | 16W 1500Lm 120V 4000'K | VANDALITE SQUR16wLED/O/W/120V | 1, 2 |
| L2 | ARCHITECTURAL CEILING MOUNTED POLYCARBONATE OPAL LENS 13.5" DIAMETER ROUND, WHITE FINISH | 23W 2100Lm 120V 4000'K | VANDALITE SQUR16wLED/O/W/120V | 1, 2 |
| L3 | LED 6"–ROUND UTILITY SURFACE POLYCARBONATE DIFFUSER, CEILING OR WALL MTD., WHITE FINISH | 13W 600Lm 120V 3000'K | PRESCOLITE LBSSLEDA6L | 1, 2 |
| L4 | LED SECURITY WALL PACK POLYCARBONATE LENS WHITE FINISH | 20W 1500Lm 120V 5000'K | WPD LIGHTING SWP20–120V | 1, 2 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| LA | WHITE ROUND ACRYLIC CEILING MOUNTED INCAND. (BEDROOMS & DINING/FAMILY) | 2–60W MAX. | VICAR INDUSTRIES VC4182–14 | 2 |
| LB | CEILING MOUNTED INCANDESCENT (CORRIDOR) | 1–60W MAX. | VICAR INDUSTRIES VC233–14 | 2 |
| LC | WALL MOUNTED INCANDESCENT FROSTED GLASS (BATHROOM) | 1–60W | VICAR INDUSTRIES VC190–14 | 2 |
| LD | CEILING MOUNTED ROUND OPAL CRYSTAL INCANDESCENT (KITCHEN) | 2–60W MAX. | VICAR INDUSTRIES VC216–14 | 2 |
| LE | WALL MOUNTED INCANDESCENT WEATHERING CONSTRUCTION POLYCARBONATE CYLINDER (TERR.) | 1–75W | VICAR INDUSTRIES VC271–14 | 2 |
| | | | | |

1–COORDINATE COLOR FINISH WITH ARCHITECT
2–FIXTURE TO BE APPROVED BY BOTH CONSULTANT AND ARCHITECT

## ELECTRICAL SPECS:

1.0 GENERAL PROVISIONS

1.1 Electrical contractor shall perform all work specified, indicated and required unless otherwise noted, including final connections.

1.2 Conform to General Contract documents except as modified herein.

1.3 Refer to Architectural, Structural, and Mechanical Contract Documents. Coordinate all work with other trades.

1.4 Examine site before bidding.

1.5 Accept sole and complete responsibility for conditions of the job site, including safety of all persons and property during performance of the work.

1.6 Comply with the requirements of the National Electrical Code, local codes, serving utility, and the local authority having jurisdiction.

1.7 Procure and pay for all required permits and service charges.

1.8 Unconditionally guarantee all work to be free of defects in materials and workmanship for one year from date of final acceptance.

1.9 Cut and patch as required. Core bore and trench existing floors as required.

1.10 Provide new, UL listed, commercial grade materials, devices, equipment, and fixtures, suitable for environment.

1.11 Order equipment within 5 days of receipt of contract to maintain schedule.

1.12 Provide continuous, permanent, and effective grounding system.

1.13 Furnish, install, and remove temporary lighting and power for all trades as required.

2.0 PLANS AND SPECIFICATIONS

2.1 Drawings are diagrammatic. Verify all dimensions and lengths, and adjust equipment and raceway locations to avoid conflicts with other construction.

2.2 Refer to drawings for particular project requirements, as not all items specified may be required.

2.3 Drawing indications and notations supersede these specifications.

2.4 Refer to drawings for additional ratings and requirements.

2.5 Provide all minor items necessary for a complete and fully functional system.

2.6 Make minor adjustments to work where requested by Owner, when such adjustments are necessary to proper operation and within the intent of the contract.

2.7 Notify the Engineer of errors, discrepancies or omissions before construction or fabrication of affected work, or, failing such notice, be responsible for correcting same.

2.8 Invoice Mechanical Contractor, not Owner, for costs incurred due to substitution of mechanical equipment having electrical requirements differing from those indicated.

3.0 MATERIALS

3.1 Wire: type THHN, copper only, 12AWG min. for interior. Home runs longer than 75', 10AWG minimum. THWN–2 for underground wiring in direct contact with earth and for raceway exposed to weather above ground.

3.2 Raceway: continuous system; 3/4" min. PVC SCHED.40 except: 3/4" min. rigid galvanized steel RGSC or PVC SCHED.80 when exposed weather; and FMC (or LTFMC if wet location) for short final connections to lighting fixtures, transformer, and mechanical equipment.

3.3 Where individual home runs are shown for clarity, combine and adjust raceway size per field conditions.

3.4 Boxes: NEMA OS1 in interior dry locations, cast weatherproof type in wet locations.

3.5 Floor boxes: recessed flush, cast. Size as indicated on drawings.

## ELECTRICAL NOTES:

1–PRIOR TO SUBMITTING HIS FINAL PROPOSAL, THE BIDDER IS REQUIRED TO EXAMINE CAREFULLY THE AREAS OF THE WORK, THE EXISTING AND NEW CONDITIONS INCLUDING NEW AND EXISTING RACEWAYS TO BE WIRED, REWIRED, ABANDONED, OR RELOCATED AND TO FAMILIARIZE HIMSELF WITH CONDITIONS WHICH WILL BE ENCOUNTERED AND WITH THE CHARACTER, EXTENT, QUALITY AND QUANTITY OF WORK AND SERVICES TO BE PERFORMED AND MATERIALS TO BE FURNISHED OR REMOVED AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK.

2–ANY RACEWAY OR CONDUIT WHICH ENTERS A BUILDING OR STRUCTURE FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH AN APPROVED SEALING COMPOUND.

3–ALL SWITCHBOARDS AND PANELBOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.

4–RECEPTACLES IN DAMP LOCATIONS SHALL BE PROVIDED WITH "WEATHERPROOF/NO–PLUG" TYPE PLATES; RECEPTACLES IN WET LOCATIONS SHALL BE PROVIDED WITH "WEATHERPROOF/PLUG–IN" TYPE PLATES WITH "EXTRA DUTY" HOODS.

5–THIS CONTRACTOR SHALL VERIFY THAT ALL WIRING INSIDE ELECTRICAL PANELS IS PROPERLY IDENTIFIED WITH CIRCUIT NUMBER TAGS (HOT, NEUTRAL, AND GROUND CONDUCTORS). PROVIDE TYPEWRITTEN CIRCUIT BREAKER DIRECTORY.

6–ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

7–CONTRACTOR SHALL VERIFY EXACT LOCATION OF ANY FLOOR OUTLETS OR STUB–UPS WITH ARCHITECT PRIOR TO ANY ROUGH–IN WORK.

8–CONTRACTOR SHALL COORDINATE WITH ARCHITECT AT FIELD ALL CONDUIT ROUTINGS FROM EXTERIOR OR REMOTE LOCATED ITEMS AS EMERGENCY GENERATOR, WATER PUMPS CONTROL PANEL, EXHAUST FANS, A/C CONDENSING UNITS, ETC.

## GENERAL NOTES:

1–PVC SCHED.40 CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE. CONDUITS THRU HUNG CEILING SHALLS BE EMT, WITH COMPRESSION TYPE FITTINGS AND CONNECTORS.

2–ALL CONDUITS EMBEDDED IN FLOOR AND CEILING SLABS SHALL BE COORDINATED WITH CONCRETE REINFORCEMENTS IN ORDER TO AVOID CONDUIT CROSSINGS.

3–THHN WIRE SHALL BE USED FOR INTERIORS UNLESS OTHERWISE INDICATED #12 A.W.G. MIN. SIZE. WIRING SERVICES UNDERGROUND IN DIRECT CONTACT WITH EARTH AND RACEWAY EXPOSED TO WEATHER SHALL BE THWN–2 RATED FOR WET LOCATION.

4–WIRING DEVICES & PLATES SHALL BE WHITE COLORED, DECORA TYPE.

5–ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, LATEST EDITION.

6–INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7–DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL BUILDING CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8–ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9–CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

10–RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11–USE #10 AWG CONDUCTORS FOR ALL INTERIOR LIGHTING CIRCUITS AND FOR CIRCUIT HOME RUNS TO PANELBOARDS THAT ARE 100 FEET OR MORE FROM THE POWER SOURCE.

12–ALL RECEPTACLES 15/20A–125/250V IN DAMP LOCATIONS SPECIFIED OR NOT WITH WEATHER PROOF PLATES SHALL BE LISTED "WEATHER RESISTANT" TYPE PER NEC–2008, ART.406.8.

13–ALL NON–LOCKING TYPE RECEPTACLES 15/20A–125/250V SHALL BE LISTED "TAMPER RESISTANT" / "TR".


S.A. SANCHEZ ARANA ARQUITECTOS
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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA) #26
CALLE FLORENCIO SANTIAGO
BARRIO PUEBLO, COAMO
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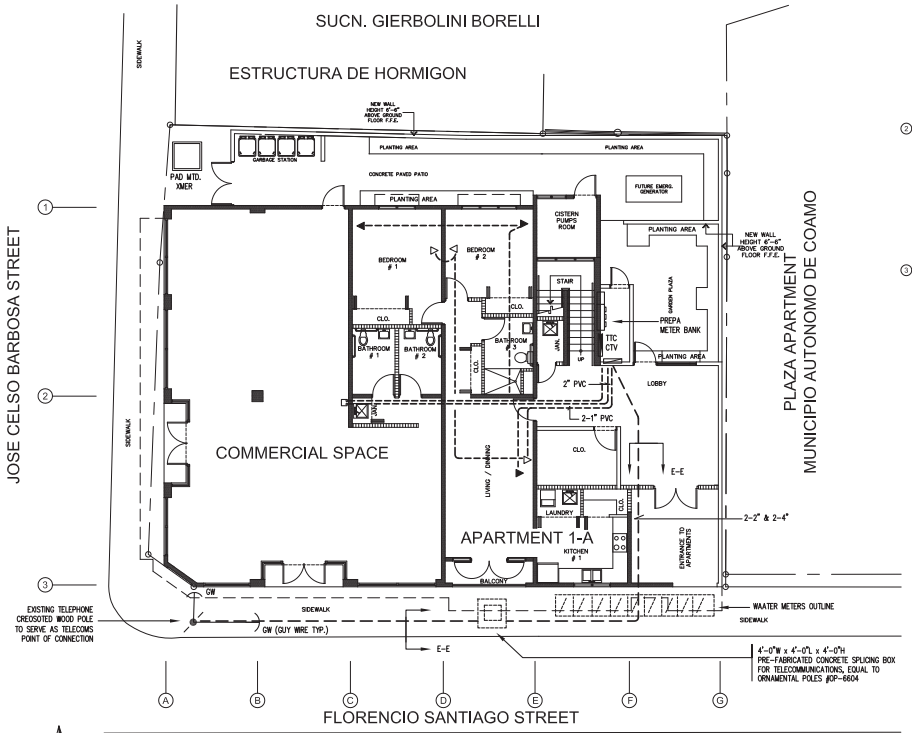
telephone: 787–760–2718
email: urrutia.eng@gmail.com


Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE
LEGEND, NOTES, AND SCHEDULES

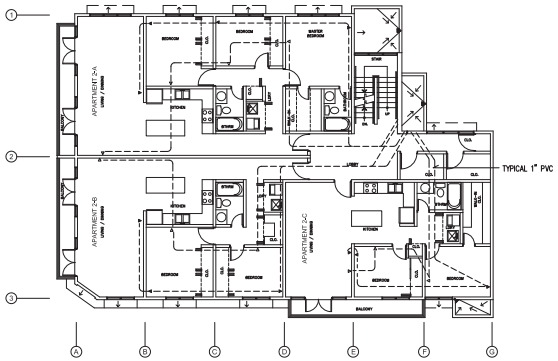
| PROJECT | SHEET NO. . OF |
|---|---|
| DESIGNED | DRAWING E–8 |
| DRAWN | |
| DATE | |

CARLOS H. URRUTIA FERRER INGENIERO LICENCIADO LIC. NO. 9852 PUERTO RICO



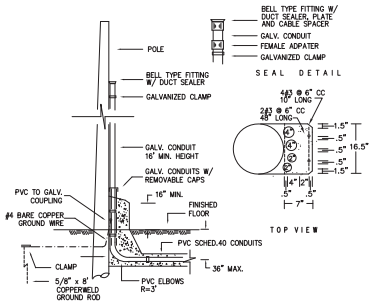

## TELECOMS SITE PLAN

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



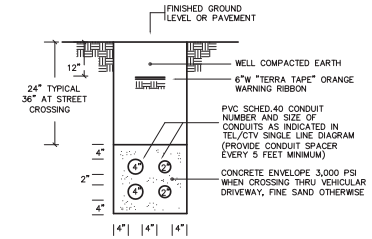

## TELECOMS - SECOND/THIRD

SCALE: 3/32" = 1'-0"



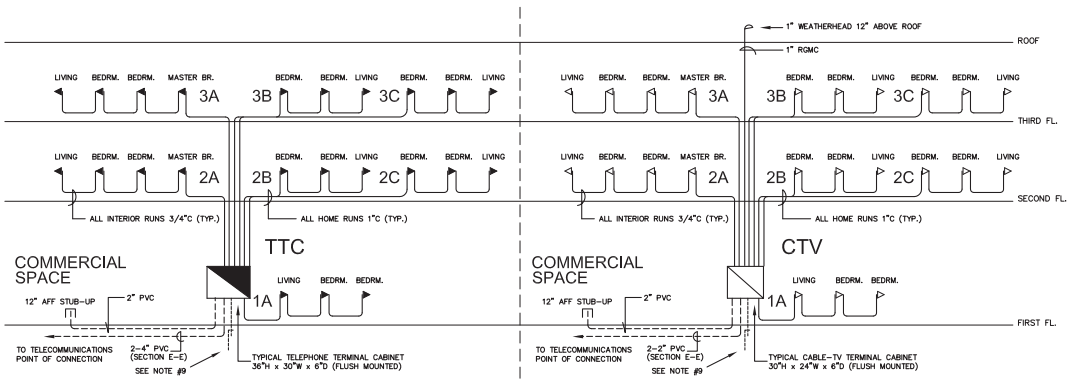

## CREOSOTED WOOD POLE 30'-C5
## TELEPHONE/CTV RISER DETAIL

N.T.S.




## SECTION E-E

N.T.S.




## TELECOMMUNICATIONS SINGLE LINE DIAGRAM

N.T.S.

LEGEND:

- 2-2" & 2-4" PVC (SECTION E-E)
- TELEPHONE TERMINAL CABINET OR BOARD, REFER TO SINGLE LINE DIAGRAM
- CABLE-TV/ANTENNA CABINET OR BOARD, REFER TO SINGLE LINE DIAGRAM

LOCATION PLAN SCALE: 1=20,000

LAMBERT: X= 208114.3382 Y= 227234.8452

## TELECOMS. NOTES:

1—CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO THE 3/4", 1", 2" AND 4" DIAMETER CONDUITS SHOWN IN DWGS. 2" AND 4" DIAMETER CONDUITS SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT AS SHOWN IN DETAIL.

2—ALL CONDUITS FOR TELECOMMUNICATION SERVICES SHALL BE 1" PVC SCHED.40 DIAMETER MINIMUM, PROVIDED WITH A 1/8"ø NYLON ROPE.

3—ALL CONDUITS FOR INTERIOR TELECOMMUNICATION OUTLETS SHALL BE 3/4" DIAMETER MIN., PROVIDED W/ GALV. FISHWIRE.

4—CONDUITS 2" & 4" IN DIAMETER FOR TELECOMMUNICATIONS DISTRIBUTION SHALL BE SCHED.26 AND SHALL BE PROVIDED WITH A #1/4ø NYLON ROPE WITH A BREAKING STRENGTH OF 500 POUNDS AND SHALL BE TESTED WITH 1—3/5" AND 3—5/16" MANDRELS RESPECTIVELY.

5—TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIAL FREE OF ROCKS OR OTHER SHARP OBJECTS AND CONTAMINANTS. BACKFILL SHALL BE COMPACTED TO 95% IN 6" LAYERS BY MEANS OF A TAMPER, WITH THE FIRST 12" TAMPED USING LIGHTWEIGHT EQUIPMENT.

6—ALL EXPOSED CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS AND CLEARLY IDENTIFIED. ALL CONDUITS IN DIST./SPLICE BOXES SHALL BE SEALED WHETHER OR NOT IN USE.

7—PULL BOXES THAT MAY BE REQUIRED BY FIELD CONDITIONS SHALL BE AT NO ADDITIONAL COST. MIN. CONDUIT BENDING RADIUS (36") AND MINIMUM CONDUIT BENDS NOT LESS THAN 90° SHALL BE AS PER TELECOMMUNICATION STDS.

8—DISTRIBUTION BOXES (3'x3'x3'/4'x4'x4') AND SPLICE BOXES (6'x4'x4'/7'x4'—6"x4') SHALL BE PLACED AS INDICATED ON PRINTS. DIST. BOXES SHALL BE LOCATED IN EASEMENT COINCIDING WITH TELECOMMUNICATIONS DIST. POINTS, LOCATED TWO FEET FROM THE PROPERTY LINE BETWEEN LOTS SO AS NOT TO INTERFERE W/ ANY CARPORT OR SIDEWALK ENTRANCE.

9—PROVIDE A #6 THW COPPER CONDUCTOR IN 3/4" CONDUIT FROM THE TEL/CTV MAIN TERMINAL BOARD OR CABINET TO COPPERWELD GROUND ROD 5/8" X 8' AND CLAMP. MAKE CONNECTION ALSO TO BUILDING'S COMMON GROUND IBTB "INTERSYSTEM BONDING TERMINATION BAR" AS INDICATED

10—CABINET MUST COMPLY WITH NEMA SPECS, MINIMUM STDS. TO NEMA TYPE 2 DESIGNATION SPECIFICATION. MATERIAL TO BE CLEANED AND DEGREASED PRIOR TO PAINT FINISH, ANSI #61, DRY, 155E115-U GRAY POLYESTER POWDER COAT. CABINET SHALL BE GALVANIZED STEEL #304, PROVIDED WITH HINGE DOOR WITH LATCH AND KEY.

11—ALL TELECOMMUNICATIONS SYSTEMS (TEL. & CTV) SHALL BE BONDED AND GROUNDED AT ALL POINTS, CONNECT ALSO TO STRUCTURE'S ELECTRICAL COMMON GROUND MAT.

12—IN COMPLIANCE WITH SECTION 19.04 OF "REGLAMENTO DE PLANIFICACION 3" THE DEVELOPER SHALL TRANSFER TO THE P.R. TELECOMMUNICATIONS REGULATORY BOARD (JRTPR), IN A COORDINATED MANNER AND BY MEANS OF A PUBLIC DEED, THE RIGHT OF WAY DESPICTED IN THESE DRAWINGS AS REQUIRED TO PROVIDE THE TELECOMMUNICATIONS SERVICES.

13—THE P.R. TELECOMMUNICATIONS REGULATORY BOARD (JRTPR) MIGHT ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETED. THE DEVELOPER SHALL COORDINATE WITH JRTPR'S DULY AUTHORIZED TELECOMMUNICATIONS PROVIDERS THE INSTALLATION OF RISERS, THE CONNECTION OF CONDUITS, OR ACCESS TO THEIR FACILITIES. FINALLY, THOSE TELECOMMUNICATIONS PROVIDERS SHALL BE ALLOWED TO INSTALL THEIR DISTIBUTION FACILITIES IN A COORDINATED AND ORDERLY MANNER TO THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.
ONCE THE PROJECT IS FULLY COMPLETED, THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.02.5 OF THE JRTPR'S "RELAMENTO PARA ENDOSO DE SERVIDUMBRE E INFRAESTRUCTURA" RELATED TO FINAL ENDORSEMENTS.

JRTPR-2019- -REC-

JUNTA REGLAMENTADORA DE TELECOMUNICACIONES DE PUERTO RICO

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

CHECKED BY DATE

RECOMMENDED BY DATE

APPROVED BY DATE

THE APPROVAL OF THESE DRAWINGS DOES NOT RELIEVE THE BUILDER/DEVELOPER FROM COMPLYING WITH ALL APPLICABLE REGULATIONS AND STANDARDS

CARLOS H. URRUTIA FERRER LIC. NO. 9852 PUERTO RICO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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

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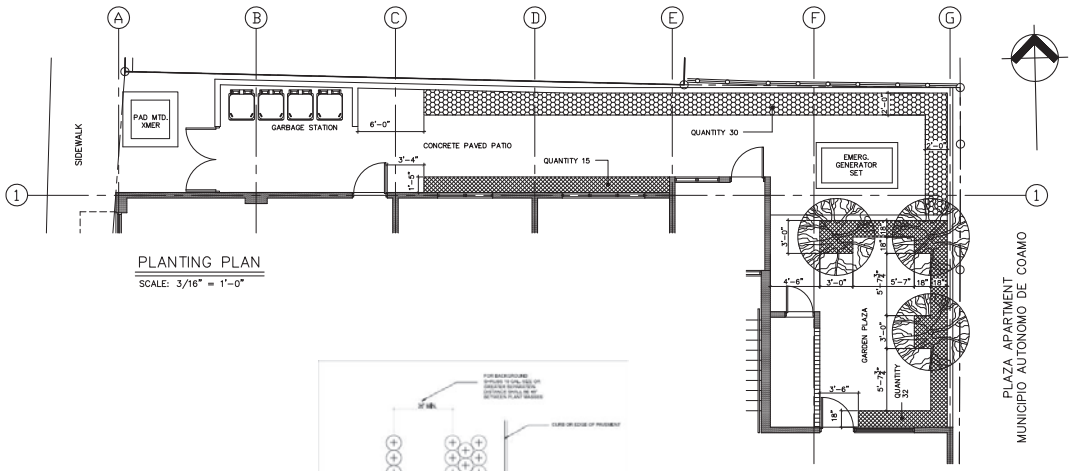
DRAWING TITLE

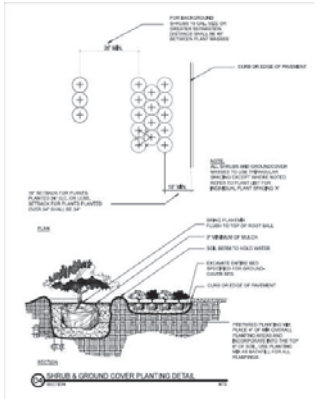
TELECOMS PLAN & DETAILS

| PROJECT | SHEET NO. . OF |
|---|---|
| DESIGNED | DRAWING T-1 |
| DRAWN | |
| DATE | |

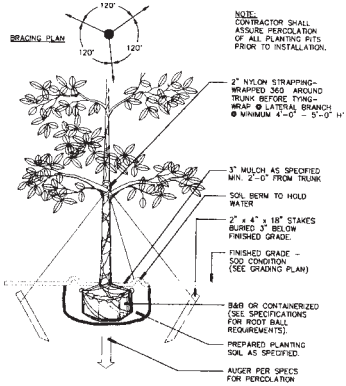



PLANTING PLAN

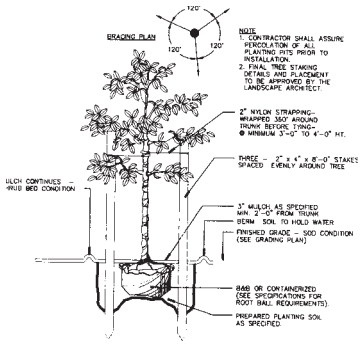
SCALE: 3/16" = 1'-0"



SHRUB & GROUND COVER PLANTING DETAIL




X LARGE TREE




X SMALL TREE DETAIL

**PLANTING GENERAL NOTES :**

1 - SOME PLANTS SPECIES LISTED ON PLANT LIST MAY NOT BE IN DRAWINGS.

2 - CONTRACTOR SHALL NOTIFY DESIGNER 2 WEEKS IN ADVANCE TO FIELD REVIEW AND APPROVE ALL PLANT MATERIAL PRIOR TO PURCHASE AND DELIVERY.

3 – ALL PLANTS MATERIAL SHALL BE APPROVED BY OWNERS REPRESENTATIVE OR DESIGNER AT TIME UPON DELIVERY TO SITE AND GIVEN FINAL APPROVAL BEFORE INSTALLATION.

4 – PLANT DEEMED BY DESIGNER OR OWNERS REPRESENTATIVE TO OF UNACCEPTABLE QUALITY SHALL BE REPLACED BY CONTRACTOR AT NO COST TO OWNERSHIP.

5 – ALL SINGLE TRUNK TREES SHALL HAVE A MINIMUM OF SIX (6') FOOT CLEAR TRUNK UNLESS OTHERWISE NOTED.

6- ALL TREE CALIPER SIZES NOTED ON PLANT LIST ARE MINIMUM. INCREASE CALIPER SIZE IF NECESSARY TO CONFORM TO PLANT SIZE SPECIFICATIONS.

7 – ANY TREE WITH A "V" FORM TRUNK, OR BRANCHING WILL BE REJECTED.

8 – ANY SUBSTITUTIONS IN SIZE AND/OR PLANT TYPE MUST BE APPROVED (IN WRITING) BY THE DESIGNER OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.

9 – CONTRACTOR SHALL REFER TO THE LANDSCAPE DETAILS, WRITTEN SPECIFICATIONS, GENERAL NOTES FOR FURTHER AND COMPLETE INSTRUCTIONS.

10 – SHOULD A PLANT BE UNAVAILABLE AT THE TIME OF INSTALLATION, ALL SUBSTITITIONS ARE SUBJECT TO THE APPROVAL OF THE DESIGNER.

11 – TOP SOIL, FERTILIZERS, AND MULCHING MUST BE ESTIMATED AND QUOTED BY LANDSCAPE CONTRACTOR BASED ON FOUR (4") INCHES TOP SOIL AND TWO (2") INCHES MULCH.

12 – PLANTING MIX SHALL BE FREE OF DELETERIOUS MATERIAL HARMFUL TO PLANT GROWTH, FREE OF NEMATODES, AND OF UNIFORM QUALITY WITH A PH RANGE 5.5-6.5. PEAT SHALL BE STERILIZED TO BE MADE FREE OF ALL VIABLE UNDESIRABLE WEEDS. PLANTING MIX FOR TREES, SHRUBS AND GROUNDCOVER AREAS SHALL CONTAIN THE FOLLOWING:

50% LOCAL TOPSOIL
30% COMPOSTED VEGETATION OR MANURE
10% CLEAN WASHED RIVER SAND (NOT BEACH SAND)
10% PEAT MOSS

13 – TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. THE PH SHALL BE IN THE RANGE OF 5.5 TO 6.5. IT SHALL BE OF UNIFORM COMPOSITION AND FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER.

14 – FINISH GRADE ALL PREPAED PLANTING AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. REMOVE ALL STONES TWO (2") INCHES OR LARGER FROM PLANTING AREAS.

15 – ONE WEEK FOLLOWING INSTALLATION ALL PLANTS SHALL BE FERTILIZED AT THE FOLLOWING RATES:

-PALMS/TREES: 13-3-13 PLUS MINORS SLOW RELEASE GRANULAR -1/4 LB. FERTILIZER PER INCH OF TRUNK DIAMETER.
-SHRUBS AND GROUND COVER: 8-10-10 PLUS MINORS SLOW RELEASE GRANULAR -1/2 LB. NITROGEN PER 1,000 SF. AREA.

REPEAT APPLICATONS EVERY 6 WEEKS UNTIL FINAL ACCEPTANCE BY OWNER. THE COST FOR LANDSCAPE FERTILIZER AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE PER PLANT PRICE.

16 – THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, WEEDING, MULCHING, MOWING, FERTILIZING) FROM THE TIME OF INSTALLATION UNTIL THE POINT OF FINAL ACCEPTANCE, IN FULL, BY OWNER'S REPRESENTATIVE.

17 – THE LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR A TWELVE (12) MONTH PERIOD FOLLOWING THE POINT OF FINAL ACCEPTANCE, IN FULL, BY OWNER'S REPRESENTATIVE.

PLANTING SCHEDULE

| SYMBOL | QTY. | BOTANICAL NAME | COMMON NAME | SPACING | DESCRIPTION |
|---|---|---|---|---|---|
| | 3 EACH | PIMENTA RECEMOSA | MALAGUETA/BAY RUM | SEE PLAN | 15"GAL – 25"GL 6' – 8"HT X 4"SPR SINGLE TRUNK / FULL |
| | 47 | ASPARAGUS DENSIFLORUS 'SPRENGERI' | ASPARAGUS FERN | 18" OC. | 1 GAL. – 8"–12"HT./FULL |
| | 30 | PHILODENDRON XANADU | PHILODENDRUN XANADU | 24" OC. | 3 GAL. – 12"HT. X 18"SPR/FULL |

NOTA:
Yo, Ilis Sánchez Arana, dirtmo de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que he preparado estos planos y especificaciones de acuerdo a los estándares de mi profesión y que no he omitido ni falseado información significativa que pueda alterar sustancialmente los resultados de los mismos. Finalmente, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico que prohíba o limite a un ex empleado o ex funcionario público participar en asuntos en los cuales intervino durante su servicio público. Asimismo

## Appendix E – Aerial Photographs

**Los Pisos**

26 Florencio Santiago

Coamo, PR 00769

Inquiry Number: 7837151.8

December 03, 2024

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

12/03/24

**Site Name:**

Los Pisos
26 Florencio Santiago
Coamo, PR 00769
EDR Inquiry # 7837151.8

**Client Name:**

Sea Horse Wastewater Services, CSP.
PO Box 6697
Mayaguez, PR 00681
Contact: Yancarlo

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| *Year* | *Scale* | *Details* | *Source* |
|---|---|---|---|
| 1994 | 1"=500' | Acquisition Date: November 24, 1994 | USGS/DOQQ |
| 1977 | 1"=500' | Flight Date: March 28, 1977 | USGS |
| 1967 | 1"=500' | Flight Date: November 30, 1967 | USGS |
| 1958 | 1"=500' | Flight Date: December 21, 1958 | USGS |

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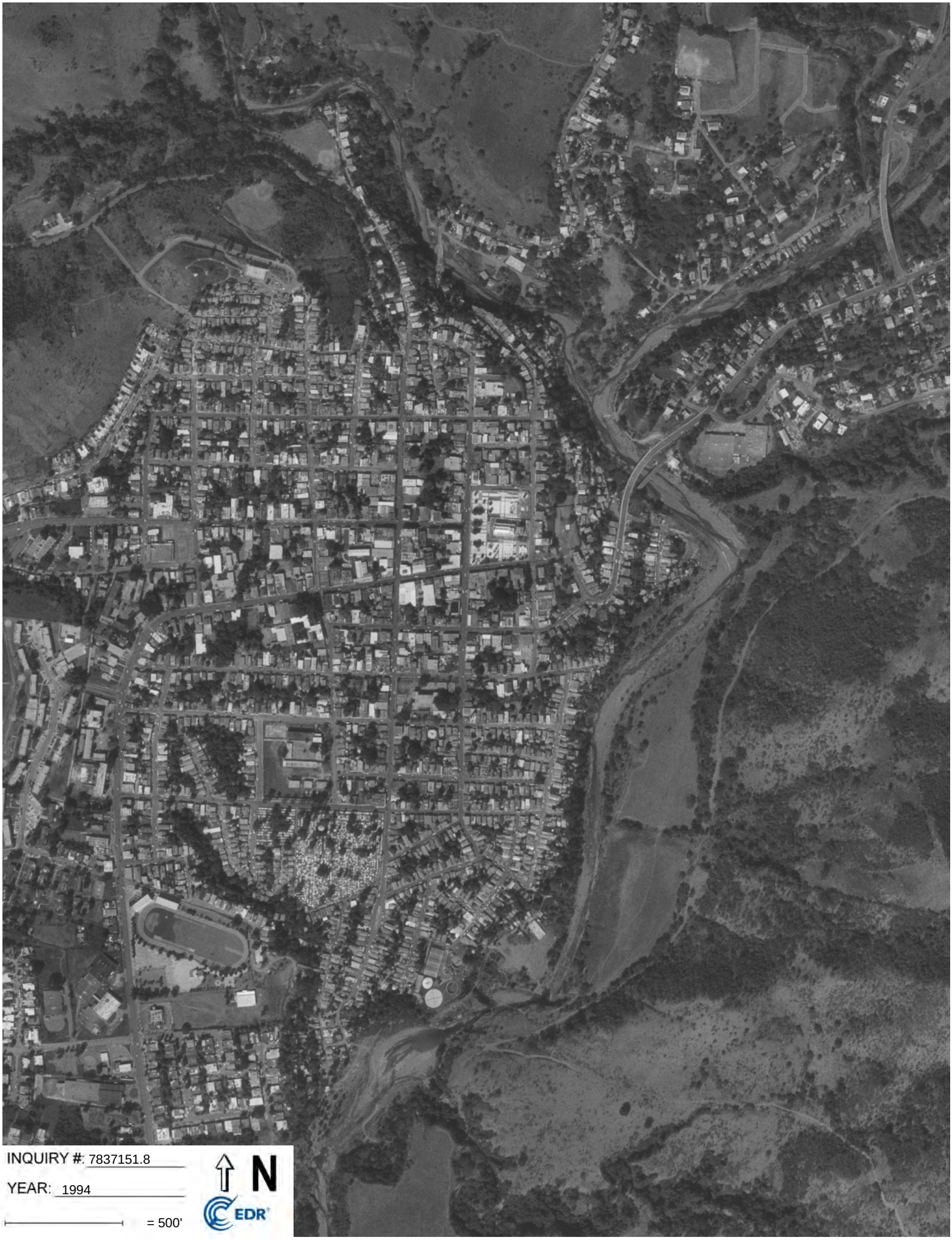
INQUIRY #: 7837151.8
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 7837151.8
YEAR: 1977
= 500'
N
EDR

INQUIRY #: 7837151.8
YEAR: 1967
= 500'
N
EDR

INQUIRY #: 7837151.8
YEAR: 1958
= 500'
N
EDR

**Appendix F – EDR Radius Map Report with GeoCheck**

**Los Pisos**
26 Florencio Santiago
Coamo, PR 00769

Inquiry Number: 7837151.2s
December 02, 2024

# The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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***Thank you for your business.***
Please contact EDR at 1-800-352-0050
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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

26 FLORENCIO SANTIAGO
COAMO, PR 00769

### COORDINATES

| | |
|---|---|
| Latitude (North): | 18.0793850 - 18° 4' 45.78'' |
| Longitude (West): | 66.3566800 - 66° 21' 24.04'' |
| Universal Tranverse Mercator: | Zone 19 |
| UTM X (Meters): | 779788.1 |
| UTM Y (Meters): | 2000851.9 |
| Elevation: | 410 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 12360422 COAMO, PR |
| Version Date: | 2018 |

# MAPPED SITES SUMMARY

Target Property Address:
26 FLORENCIO SANTIAGO
COAMO, PR 00769

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | GASOLINAS TRIUNFO S/ | JOSE I. QUINTON ST. | UST | Higher | 214, 0.041, NNW |
| A2 | MARTINEZ OLIVENCIA A | 29 CALLE JOSE I QUIN | EDR Hist Auto | Higher | 214, 0.041, NNW |
| A3 | MARTINEZ OLIVENCIA A | 29 JOSE I QUINTON | EDR Hist Auto | Higher | 214, 0.041, NNW |
| 4 | NEW YORK DRY CLEANER | 19 JOSE I QUINTO | RCRA NonGen / NLR, FINDS, ECHO | Higher | 336, 0.064, NE |
| A5 | LUIS E RODRIGUEZ | | US MINES | Higher | 476, 0.090, WNW |
| A6 | TOSQUERO DE JESUS | ROAD # 5559 KM 1.8 B | US MINES, ABANDONED MINES | Higher | 476, 0.090, WNW |
| 7 | TOTAL PETROLEUM PUER | 95 CALLE JOSE QUINTO | RCRA-SQG | Higher | 850, 0.161, NNE |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Lists of Federal NPL (Superfund) sites*

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

### *Lists of Federal Delisted NPL sites*

Delisted NPL ---------- National Priority List Deletions

### *Lists of Federal sites subject to CERCLA removals and CERCLA orders*

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

### *Lists of Federal CERCLA sites with NFRAP*

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

### *Lists of Federal RCRA facilities undergoing Corrective Action*

CORRACTS ---------- Corrective Action Report

### *Lists of Federal RCRA TSD facilities*

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

### *Lists of Federal RCRA generators*

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### *Federal institutional controls / engineering controls registries*

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS ..... Institutional Controls Sites List

***Federal ERNS list***

ERNS ..... Emergency Response Notification System

***Lists of state- and tribal hazardous waste facilities***

SHWS ..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

***Lists of state and tribal leaking storage tanks***

LUST ..... Leaking Underground Storage Tanks
INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

***Lists of state and tribal registered storage tanks***

FEMA UST ..... Underground Storage Tank Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land

***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP ..... Voluntary Cleanup Priority Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL ..... Delisted National Clandestine Laboratory Register
US CDL ..... National Clandestine Laboratory Register

***Local Land Records***

LIENS 2 ..... CERCLA Lien Information

***Records of Emergency Release Reports***

HMIRS ..... Hazardous Materials Information Reporting System

***Other Ascertainable Records***

FUDS ..... Formerly Used Defense Sites

DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
MINES MRDS ---- Mineral Resources Data System
FINDS ---- Facility Index System/Facility Registry System
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
ECHO ---- Enforcement & Compliance History Information
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
PFAS NPL ---- Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ---- Federal Sites PFAS Information
PFAS TRIS ---- List of PFAS Added to the TRI
PFAS TSCA ---- PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST ---- PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR ---- PFAS Contamination Site Location Listing
PFAS WQP ---- Ambient Environmental Sampling for PFAS
PFAS PROJECT ---- NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES ---- Clean Water Act Discharge Monitoring Information
PFAS ECHO ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT ---- All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC ---- Aqueous Foam Related Incidents Listing
BIOSOLIDS ---- ICIS-NPDES Biosolids Facility Data
UST FINDER RELEASE ---- UST Finder Releases Database
UST FINDER ---- UST Finder Database
E MANIFEST ---- Hazardous Waste Electronic Manifest System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP ---- EDR Proprietary Manufactured Gas Plants

# EXECUTIVE SUMMARY

EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

***Lists of Federal RCRA generators***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TOTAL PETROLEUM PUER<br>EPA ID:: PRR000023317 | 95 CALLE JOSE QUINTO | NNE 1/8 - 1/4 (0.161 mi.) | 7 | 20 |

***Lists of state and tribal registered storage tanks***

UST: UST Facilities.

A review of the UST list, as provided by EDR, and dated 01/01/2008 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| GASOLINAS TRIUNFO S/<br>Facility Id: 2-861875 | JOSE I. QUINTON ST. | NNW 0 - 1/8 (0.041 mi.) | A1 | 8 |

Tank Status: Permanently Out of Use
Tank Status: Currently In Use

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***NEW YORK DRY CLEANER*** | ***19 JOSE I QUINTO*** | ***NE 0 - 1/8 (0.064 mi.)*** | ***4*** | ***9*** |
| EPA ID:: PRN008009706 | | | | |

US MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the US MINES list, as provided by EDR, has revealed that there are 2 US MINES sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| LUIS E RODRIGUEZ | | WNW 0 - 1/8 (0.090 mi.) | A5 | 12 |
| Database: US MINES, Date of Government Version: 08/06/2024 | | | | |
| Mine ID:: 5400484 | | | | |
| ***TOSQUERO DE JESUS*** | ***ROAD # 5559 KM 1.8 B*** | ***WNW 0 - 1/8 (0.090 mi.)*** | ***A6*** | ***13*** |
| Database: MINES VIOLATIONS, Date of Government Version: 10/01/2024 | | | | |

ABANDONED MINES: An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

A review of the ABANDONED MINES list, as provided by EDR, and dated 09/10/2024 has revealed that there is 1 ABANDONED MINES site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***TOSQUERO DE JESUS*** | ***ROAD # 5559 KM 1.8 B*** | ***WNW 0 - 1/8 (0.090 mi.)*** | ***A6*** | ***13*** |

# EXECUTIVE SUMMARY

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

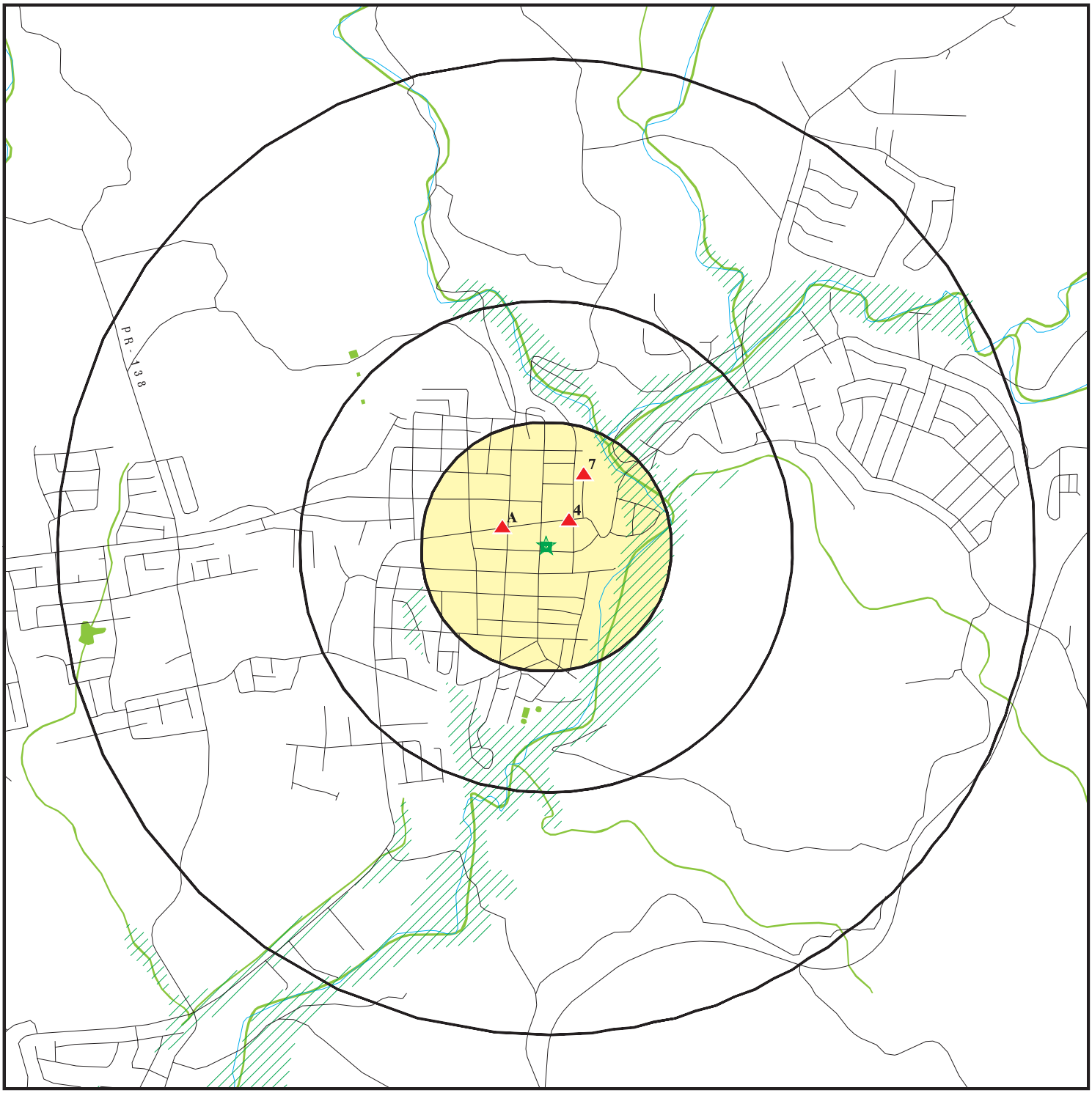
| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MARTINEZ OLIVENCIA A | 29 CALLE JOSE I QUIN | NNW 0 - 1/8 (0.041 mi.) | A2 | 8 |
| MARTINEZ OLIVENCIA A | 29 JOSE I QUINTON | NNW 0 - 1/8 (0.041 mi.) | A3 | 8 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

| Site Name | Database(s) |
|---|---|
| SANTIAGO S/S | LUST, UST |
| GPR #5246 | LUST |

# OVERVIEW MAP - 7837151.2S




0 1/4 1/2 1 Miles

N

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Los Pisos<br>ADDRESS: 26 Florencio Santiago<br>Coamo PR 00769<br>LAT/LONG: 18.079385 / 66.35668 | CLIENT: Sea Horse Wastewater Services, CSP.<br>CONTACT: Yancarlo<br>INQUIRY #: 7837151.2s<br>DATE: December 02, 2024 3:04 pm |

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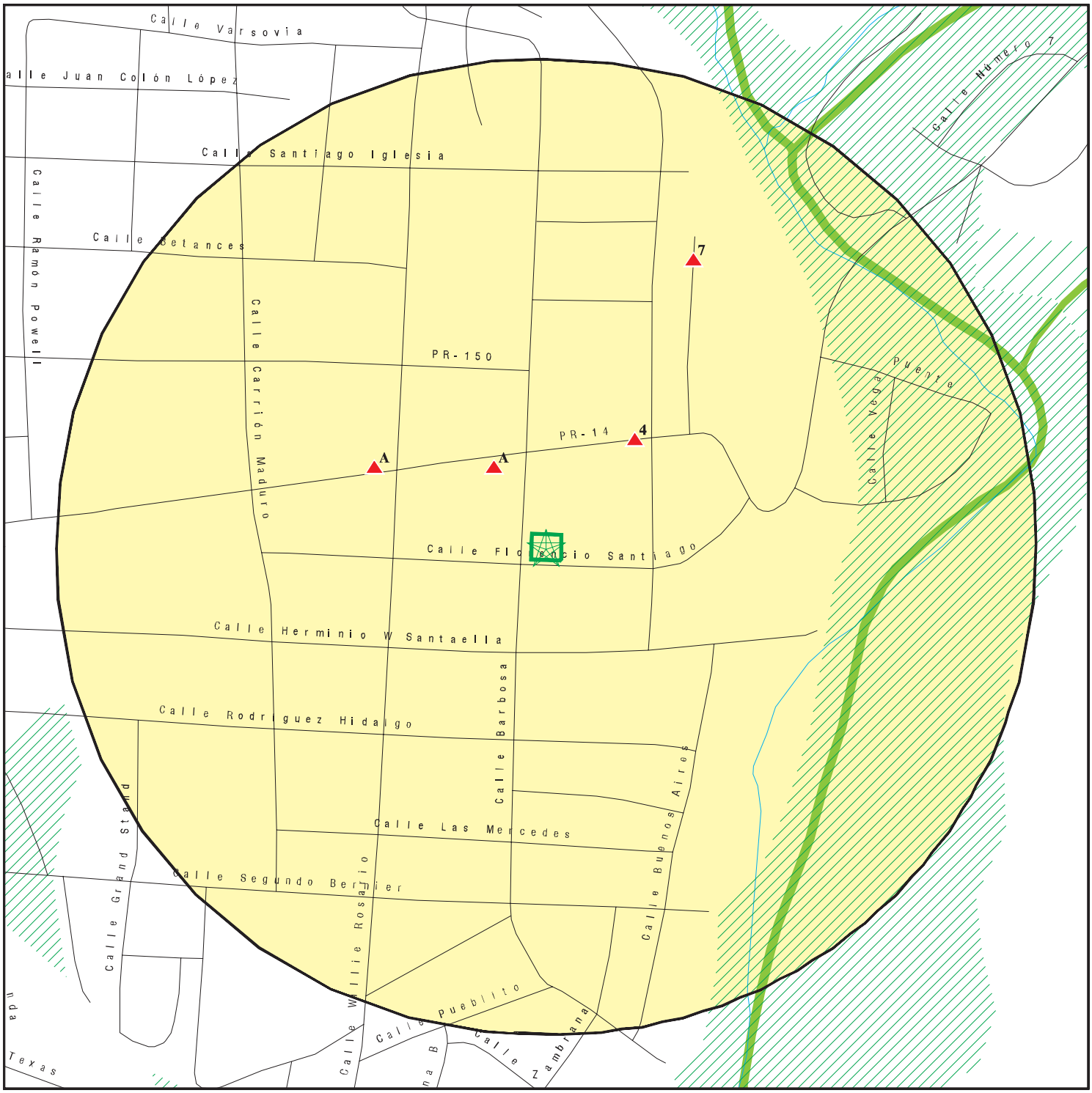
# DETAIL MAP - 7837151.2S




0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Los Pisos | CLIENT: Sea Horse Wastewater Services, CSP. |
| ADDRESS: 26 Florencio Santiago<br>Coamo PR 00769 | CONTACT: Yancarlo |
| LAT/LONG: 18.079385 / 66.35668 | INQUIRY #: 7837151.2s<br>DATE: December 02, 2024 3:05 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Lists of Federal NPL (Superfund) sites*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal Delisted NPL sites*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal sites subject to CERCLA removals and CERCLA orders*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal CERCLA sites with NFRAP*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA facilities undergoing Corrective Action*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Lists of Federal RCRA TSD facilities*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of Federal RCRA generators*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Lists of state- and tribal hazardous waste facilities*** | | | | | | | | |
| SHWS | N/A | | N/A | N/A | N/A | N/A | N/A | N/A |
| ***Lists of state and tribal leaking storage tanks*** | | | | | | | | |
| LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Lists of state and tribal registered storage tanks*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| UST | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Lists of state and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Local Land Records*** | | | | | | | | |
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| MINES MRDS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| FINDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ECHO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPL | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS FEDERAL SITES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS TRIS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS TSCA | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS RCRA MANIFEST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ATSDR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS WQP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS PROJECT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS NPDES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ECHO | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS ECHO FIRE TRAIN | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PFAS PT 139 AIRPORT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| AQUEOUS FOAM NRC | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| BIOSOLIDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UST FINDER RELEASE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| UST FINDER | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| E MANIFEST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 2 | NR | NR | NR | NR | 2 |
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 0 | 7 | 1 | 0 | 0 | 0 | 8 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

**A1** **GASOLINAS TRIUNFO S/S** **UST** **U003430857**
**NNW** **JOSE I. QUINTON ST. #29** **N/A**
**< 1/8** **COAMO, PR 00769**
**0.041 mi.**
**214 ft.** **Site 1 of 5 in cluster A**

**Relative:** UST:
**Higher**

**Actual:**
**420 ft.**

| | |
|---|---|
| Facility ID: | 2-861875 |
| Tank Status: | Permanently Out of Use |
| Substance Description: | Gasoline |
| Facility ID: | 2-861875 |
| Tank Status: | Permanently Out of Use |
| Substance Description: | Gasoline |
| Facility ID: | 2-861875 |
| Tank Status: | Permanently Out of Use |
| Substance Description: | Gasoline |
| Facility ID: | 2-861875 |
| Tank Status: | Permanently Out of Use |
| Substance Description: | Gasoline |
| Facility ID: | 2-861875 |
| Tank Status: | Currently In Use |
| Substance Description: | Not reported |
| Facility ID: | 2-861875 |
| Tank Status: | Currently In Use |
| Substance Description: | Not reported |

---

**A2** **MARTINEZ OLIVENCIA ANGEL M** **EDR Hist Auto** **1020959811**
**NNW** **29 CALLE JOSE I QUINTON** **N/A**
**< 1/8** **COAMO, PR 00769**
**0.041 mi.**
**214 ft.** **Site 2 of 5 in cluster A**

**Relative:** EDR Hist Auto
**Higher**

**Actual:**
**420 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1993 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1994 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1995 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1996 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1998 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1999 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |

---

**A3** **MARTINEZ OLIVENCIA ANGEL M** **EDR Hist Auto** **1021664640**
**NNW** **29 JOSE I QUINTON** **N/A**
**< 1/8** **COAMO, PR 00640**
**0.041 mi.**
**214 ft.** **Site 3 of 5 in cluster A**

**Relative:** EDR Hist Auto
**Higher**

**Actual:**
**420 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1989 | RIVERA OLIVERI ISMAEL | Gasoline Service Stations |
| 1990 | RIVERA OLIVERI ISMAEL | Gasoline Service Stations |

**MARTINEZ OLIVENCIA ANGEL M (Continued)** **1021664640**

| | | |
|---|---|---|
| 1991 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |
| 1992 | MARTINEZ OLIVENCIA ANGEL M | Gasoline Service Stations, NEC |

---

**4** **NEW YORK DRY CLEANER** **RCRA NonGen / NLR** **1006811224**
**NE** **19 JOSE I QUINTO** **FINDS** **PRN008009706**
**< 1/8** **COAMO, PR 00769** **ECHO**
**0.064 mi.**
**336 ft.**

**Relative:**
**Higher**

**Actual:**
**420 ft.**

RCRA Listings:

| | |
|---|---|
| Date Form Received by Agency: | 20080101 |
| Handler Name: | New York Dry Cleaner |
| Handler Address: | Jose I Quinto |
| Handler City,State,Zip: | COAMO, PR 00769 |
| EPA ID: | PRN008009706 |
| Contact Name: | SAMUEL GARCIA |
| Contact Address: | JOSE I QUINTO |
| Contact City,State,Zip: | COAMO, PR 00769 |
| Contact Telephone: | 787-825-4241 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 02 |
| Land Type: | Private |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | JOSE I QUINTO |
| Mailing City,State,Zip: | COAMO, PR 00769 |
| Owner Name: | Samuel Garcia |
| Owner Type: | Private |
| Operator Name: | Samuel Garcia |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| 202 GPRA Corrective Action Baseline: | No |
| Subject to Corrective Action Universe: | No |

**NEW YORK DRY CLEANER (Continued)** **1006811224**

| | |
|---|---|
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20150414 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: SAMUEL GARCIA | |
| Legal Status: | Private |
| Date Became Current: | 20010101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 19 JOSE I QUINTO |
| Owner/Operator City,State,Zip: | COAMO, PR 00769 |
| Owner/Operator Telephone: | 787-825-4241 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: SAMUEL GARCIA | |
| Legal Status: | Private |
| Date Became Current: | 20010101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 19 JOSE I QUINTO |
| Owner/Operator City,State,Zip: | COAMO, PR 00769 |
| Owner/Operator Telephone: | 787-825-4241 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: SAMUEL GARCIA | |
| Legal Status: | Private |
| Date Became Current: | 17760101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 19 JOSE I QUINTO |
| Owner/Operator City,State,Zip: | COAMO, PR 00769 |
| Owner/Operator Telephone: | 787-825-4241 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**NEW YORK DRY CLEANER (Continued)** **1006811224**

Historic Generators:

| | | |
|---|---|---|
| Receive Date: | | 20060101 |
| Handler Name: | NEW YORK DRY CLEANER | |
| Federal Waste Generator Description: | | Not a generator, verified |
| State District Owner: | | Pr |
| Large Quantity Handler of Universal Waste: | | No |
| Recognized Trader Importer: | | No |
| Recognized Trader Exporter: | | No |
| Spent Lead Acid Battery Importer: | | No |
| Spent Lead Acid Battery Exporter: | | No |
| Current Record: | | No |
| Non Storage Recycler Activity: | | Not reported |
| Electronic Manifest Broker: | | Not reported |

| | | |
|---|---|---|
| Receive Date: | | 20080101 |
| Handler Name: | NEW YORK DRY CLEANER | |
| Federal Waste Generator Description: | | Not a generator, verified |
| State District Owner: | | Not reported |
| Large Quantity Handler of Universal Waste: | | No |
| Recognized Trader Importer: | | No |
| Recognized Trader Exporter: | | No |
| Spent Lead Acid Battery Importer: | | No |
| Spent Lead Acid Battery Exporter: | | No |
| Current Record: | | Yes |
| Non Storage Recycler Activity: | | Not reported |
| Electronic Manifest Broker: | | Not reported |

| | | |
|---|---|---|
| Receive Date: | | 20010725 |
| Handler Name: | NEW YORK DRY CLEANER | |
| Federal Waste Generator Description: | | Not a generator, verified |
| State District Owner: | | Not reported |
| Large Quantity Handler of Universal Waste: | | No |
| Recognized Trader Importer: | | No |
| Recognized Trader Exporter: | | No |
| Spent Lead Acid Battery Importer: | | No |
| Spent Lead Acid Battery Exporter: | | No |
| Current Record: | | No |
| Non Storage Recycler Activity: | | Not reported |
| Electronic Manifest Broker: | | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Codes: | No NAICS Codes Found |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

FINDS:

| | |
|---|---|
| Registry ID: | 110014362144 |

Click Here for FRS Facility Detail Report:

**NEW YORK DRY CLEANER (Continued)** **1006811224**

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1006811224 |
| Registry ID: | 110014362144 |
| DFR URL: | |
| Name: | NEW YORK DRY CLEANER |
| Address: | 19 JOSE I QUINTO |
| City,State,Zip: | COAMO, PR 00769 |

---

**A5** **LUIS E RODRIGUEZ** **US MINES** **1017782224**
**WNW** **N/A**
**< 1/8** **SANTA ISABEL (County), PR**
**0.090 mi.**
**476 ft.** **Site 4 of 5 in cluster A**

**Relative:**
**Higher**

**Actual:**
**420 ft.**

US MINES:

| | |
|---|---|
| Sic Code(s): | 142900 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Sic Code(s): | 000000 |
| Mine ID: | 5400484 |
| Entity Name: | TOSQUERO DE JESUS |
| Company: | LUIS E RODRIGUEZ |
| Status: | Permanently Abandoned |
| Status Date: | 20190815 |
| Operation Class: | 2 |
| Number of Shops: | 0 |
| Number of Plants: | 0 |
| Latitude Degree: | 18 |
| Longitude Degree: | 066 |
| Latitude Minute: | 04 |
| Latitude Seconds: | 48 |
| Longitude Minutes: | 21 |
| Longitude Seconds: | 29 |
| Number of Pits: | 000 |

**A6**
**WNW**
**< 1/8**
**0.090 mi.**
**476 ft.**

**TOSQUERO DE JESUS**
**ROAD # 5559 KM 1.8 BO. IDELFONSO**
**COAMO, PR 00769**

**US MINES**
**ABANDONED MINES**

**1024929061**
**N/A**

**Site 5 of 5 in cluster A**

**Relative:**
**Higher**

**Actual:**
**420 ft.**

MINES VIOLATIONS:

| | |
|---|---|
| Name: | TOSQUERO DE JESUS |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City,State,Zip: | COAMO, PR 00769 |
| Facility ID: | Not reported |

MINES VIOLATIONS:

| | |
|---|---|
| Violation Number: | 9332069 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 9/5/2018 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 9/5/2018 |
| Title 30 Code of Federal Regulations: | 50.30(a) |
| Proposed Penalty: | 118.00 |
| Assessment Amount: | 118.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Received |
| Assessment Status: | Proposed |
| Year: | 2018 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 3/30/2015 |
| Mine Status: | Abandoned |
| Status Date: | 8/15/2019 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8903859 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 10/31/2016 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 10/31/2016 |
| Title 30 Code of Federal Regulations: | 50.30(a) |
| Proposed Penalty: | 114.00 |
| Assessment Amount: | 114.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2016 |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8653615 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 04/04/2011 |
| Action Type: | 104(b) |
| Type of Issue: | Order |
| S and S: | Not reported |
| Term Date: | 04/28/2011 |
| Title 30 Code of Federal Regulations: | 56.14101(a)(2) |
| Proposed Penalty: | Not reported |
| Assessment Amount: | Not reported |
| Paid Penalty Amount: | Not reported |
| Assessment Case Status: | Not reported |
| Assessment Status: | Not reported |
| Year: | 2011 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8819987 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 08/05/2015 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | Y |
| Term Date: | 09/23/2015 |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| Title 30 Code of Federal Regulations: | 56.14100(b) |
| Proposed Penalty: | 108.00 |
| Assessment Amount: | 108.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Printed |
| Year: | 2015 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8819994 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 08/05/2015 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | Y |
| Term Date: | 09/23/2015 |
| Title 30 Code of Federal Regulations: | 56.9300(a) |
| Proposed Penalty: | 108.00 |
| Assessment Amount: | 108.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2015 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8819995 |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 08/05/2015 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 08/07/2015 |
| Title 30 Code of Federal Regulations: | 56.18002(b) |
| Proposed Penalty: | 100.00 |
| Assessment Amount: | 100.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2015 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8819996 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 08/05/2015 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 08/24/2015 |
| Title 30 Code of Federal Regulations: | 50.30(a) |
| Proposed Penalty: | 100.00 |
| Assessment Amount: | 100.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2015 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |
| | |
| Violation Number: | 8819873 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 12/02/2015 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 12/03/2015 |
| Title 30 Code of Federal Regulations: | 50.30(a) |
| Proposed Penalty: | 100.00 |
| Assessment Amount: | 100.00 |
| Paid Penalty Amount: | 0.00 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2015 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |
| | |
| Violation Number: | 8638246 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 02/07/2012 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | Y |
| Term Date: | Not reported |
| Title 30 Code of Federal Regulations: | 56.11001 |
| Proposed Penalty: | 436 |
| Assessment Amount: | 436 |
| Paid Penalty Amount: | 0 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2012 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8638247 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 02/07/2012 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | Not reported |
| Title 30 Code of Federal Regulations: | 56.14107(a) |
| Proposed Penalty: | 112 |
| Assessment Amount: | 112 |
| Paid Penalty Amount: | 0 |
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2012 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

| | |
|---|---|
| Violation Number: | 8638248 |
| Mine ID: | 5400484 |
| Contractor ID: | Not reported |
| Date Issued: | 02/07/2012 |
| Action Type: | 104(a) |
| Type of Issue: | Citation |
| S and S: | N |
| Term Date: | 03/15/2012 |
| Title 30 Code of Federal Regulations: | 56.14100(b) |
| Proposed Penalty: | 100 |
| Assessment Amount: | 100 |
| Paid Penalty Amount: | 0 |

**TOSQUERO DE JESUS (Continued)** **1024929061**

| | |
|---|---|
| Assessment Case Status: | Proposed |
| Assessment Status: | Received |
| Year: | 2012 |
| Address Type: | MineLocation |
| PO Box: | Not reported |
| Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City: | COAMO |
| State: | PR |
| Operator: | Luis E Rodriguez |
| Zip: | 00769 |
| Mine Controller Name: | Luis E Rodriguez |
| Name: | TOSQUERO DE JESUS |
| Ownership Date: | 03/30/2015 |
| Mine Status: | Active |
| Status Date: | 04/21/2015 |
| Primary Site Description: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| State 2: | PR |
| County: | SANTA ISABEL |

Click this hyperlink while viewing on your computer to access
50 additional US_MINES_VIOLATIONS: record(s) in the EDR Site Report.

ABANDONED MINES:

| | |
|---|---|
| Mine ID: | 5400484 |
| Mine Name: | TOSQUERO DE JESUS |
| Mine Address: | ROAD # 5559 KM 1.8 BO. IDELFONSO |
| City,State,Zip: | COAMO, PR 00795 |
| Primary SIC Code: | Crushed, Broken Stone NEC |
| Mine Type: | Surface |
| Mine Status Description: | Abandoned |
| Mine Status Date: | 8/15/2019 |
| Coal (C) or Metal (M) Mine: | M |
| Controller ID: | 0117407 |
| Controller Name: | Luis E Rodriguez |
| Operator ID: | 0137993 |
| Operator name: | Luis E Rodriguez |
| Address of Record Street: | HC-04 BOX 7273 |
| Address of Record PO Box: | Not reported |
| Address of Record City: | JUANA DIAZ |
| Address of Record State: | PR |
| Address of Record Zip Code: | 00795 |
| Assessment Address Street: | PR5559 KM 18 SAN IDELFONSO |
| Assessment Address PO Box: | Not reported |
| Assessment Address City: | COAMO |
| Assessment Address State: | PR |
| Assessment Address Zip Code: | 00795 |
| Mine Health and Safety Address Street: | hc04 box 7293 |
| Mine Health and Safety Address PO Box: | Not reported |
| Mine Health and Safety Address City: | juana diaz |
| Mine Health and Safety Address State: | PR |
| Mine Health and Safety Address Zip Code: | Not reported |
| Latitude: | 18.08 |
| Longitude: | -66.358056 |

**7**
**NNE**
**1/8-1/4**
**0.161 mi.**
**850 ft.**

**TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION**
**95 CALLE JOSE QUINTON**
**COAMO, PR 00769**

**RCRA-SQG**

**1014401188**
**PRR000023317**

**Relative:**
**Higher**

**Actual:**
**430 ft.**

RCRA Listings:

| | |
|---|---|
| Date Form Received by Agency: | 20101001 |
| Handler Name: | Total Petroleum Puerto Rico Corp - Service Station 215642 |
| Handler Address: | Calle Jose Quinton |
| Handler City,State,Zip: | COAMO, PR 00769 |
| EPA ID: | PRR000023317 |
| Contact Name: | MARLA Y RIVERA |
| Contact Address: | PO BOX 362916 |
| Contact City,State,Zip: | SAN JUAN, PR 00936-2916 |
| Contact Telephone: | 787-749-7794 |
| Contact Fax: | 787-783-0407 |
| Contact Email: | MARLA.RIVERA@TPPRC.COM |
| Contact Title: | SUPERVISOR HEALTH SAFETY ENVIRON QUALITY HSEQ |
| EPA Region: | 02 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | PO BOX 362916 |
| Mailing City,State,Zip: | SAN JUAN, PR 00936-2916 |
| Owner Name: | Total Petroleum Puerto Rico Corp |
| Owner Type: | Private |
| Operator Name: | Total Petroleum Puerto Rico Corp |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| 202 GPRA Corrective Action Baseline: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |

**TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642 (Continued)** **1014401188**

| | |
|---|---|
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20150414 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D001 |
| Waste Description: | Ignitable Waste |
| Waste Code: | D018 |
| Waste Description: | Benzene |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | TOTAL PETROLEUM PUERTO RICO CORP |
| Legal Status: | Private |
| Date Became Current: | 20081101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | PO BOX 362916 |
| Owner/Operator City,State,Zip: | SAN JUAN, PR 00936-2916 |
| Owner/Operator Telephone: | 787-783-4625 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | TOTAL PETROLEUM PUERTO RICO CORP |
| Legal Status: | Private |
| Date Became Current: | 20081101 |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20101001 |
| Handler Name: | TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642 |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |

**TOTAL PETROLEUM PUERTO RICO CORP - SERVICE STATION 215642 (Continued)** **1014401188**

| | |
|---|---|
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 44711 |
| NAICS Description: | GASOLINE STATIONS WITH CONVENIENCE STORES |
| NAICS Code: | 44719 |
| NAICS Description: | OTHER GASOLINE STATIONS |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

Count: 2 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| COAMO | U003429818 | SANTIAGO S/S | RD. 14, KM. 31.7 EXIT COAMO TO | 00769 | LUST, UST |
| COAMO | S104540025 | GPR #5246 | CARR. 150 KM. 18.7 | | LUST |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Lists of Federal NPL (Superfund) sites***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/07/2024
Date Data Arrived at EDR: 06/25/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/24/2024
Next Scheduled EDR Contact: 01/09/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/20/2025
Data Release Frequency: Quarterly

***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/20/2025
Data Release Frequency: Quarterly

***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 07/15/2024
Date Data Arrived at EDR: 07/17/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/13/2024
Next Scheduled EDR Contact: 02/17/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/15/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/15/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

***Lists of state- and tribal hazardous waste facilities***

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Environmental Quality Board
Telephone: 787-767-8181
Last EDR Contact: 08/22/2005
Next Scheduled EDR Contact: 11/21/2005
Data Release Frequency: N/A

***Lists of state and tribal leaking storage tanks***

LUST: Leaking Underground Storage Tanks

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/24/2020
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84

Source: Environmental Quality Board
Telephone: 787-767-8056
Last EDR Contact: 10/17/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

***Lists of state and tribal registered storage tanks***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Underground Storage Tank Facilities
Underground storage tank site locations.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 03/26/2008
Date Made Active in Reports: 04/23/2008
Number of Days to Update: 28

Source: Environmental Quality Board
Telephone: 787-767-8056
Last EDR Contact: 10/17/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 07/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2024
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/11/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/17/2024
Next Scheduled EDR Contact: 02/03/2025
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 11/19/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/13/2024
Next Scheduled EDR Contact: 02/03/2025
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 08/19/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 51

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Quarterly

***Local Land Records***

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 07/31/2024
Date Data Arrived at EDR: 08/12/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 58

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/12/2024
Next Scheduled EDR Contact: 02/24/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/10/2024
Next Scheduled EDR Contact: 01/20/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/03/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/04/2024
Next Scheduled EDR Contact: 02/17/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/10/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/24/2024
Next Scheduled EDR Contact: 02/10/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 10/31/2024
Next Scheduled EDR Contact: 02/10/2025
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 10/03/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/14/2024
Next Scheduled EDR Contact: 02/24/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/24/2024
Date Data Arrived at EDR: 11/01/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 18

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 07/12/2024
Date Data Arrived at EDR: 07/17/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/09/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/01/2024
Next Scheduled EDR Contact: 02/10/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 05/23/2024
Date Data Arrived at EDR: 07/02/2024
Date Made Active in Reports: 09/26/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/12/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 33
Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 10/09/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/20/2024
Next Scheduled EDR Contact: 03/10/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/20/2024
Next Scheduled EDR Contact: 03/10/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/31/2024
Next Scheduled EDR Contact: 02/10/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 02/03/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2024
Date Data Arrived at EDR: 07/08/2024
Date Made Active in Reports: 09/26/2024
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/01/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/24/2024
Next Scheduled EDR Contact: 02/10/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 05/08/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 14

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/14/2024
Next Scheduled EDR Contact: 02/24/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 09/25/2024
Date Data Arrived at EDR: 10/01/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/01/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 7

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/13/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/06/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/18/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 69

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 11/26/2024
Next Scheduled EDR Contact: 03/17/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/22/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/13/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 8

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 11/20/2024
Next Scheduled EDR Contact: 03/10/2025
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/03/2024
Next Scheduled EDR Contact: 01/20/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/01/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/13/2024
Next Scheduled EDR Contact: 03/03/2025
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/13/2024
Date Data Arrived at EDR: 08/13/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 57

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/08/2024
Next Scheduled EDR Contact: 02/24/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 10/17/2024
Next Scheduled EDR Contact: 02/03/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 10/02/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 10/13/2024
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 10/23/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 10/16/2024
Next Scheduled EDR Contact: 01/27/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 11/06/2024
Next Scheduled EDR Contact: 02/17/2025
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 11/06/2024
Next Scheduled EDR Contact: 02/17/2025
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Environmental Quality Board in Puerto Rico.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 187

Source: Environmental Quality Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/25/2024
Next Scheduled EDR Contact: 01/13/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/07/2024
Next Scheduled EDR Contact: 02/24/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

LOS PISOS
26 FLORENCIO SANTIAGO
COAMO, PR 00769

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 18.079385 - 18° 4' 45.79'' |
| Longitude (West): | 66.35668 - 66° 21' 24.05'' |
| Universal Tranverse Mercator: | Zone 19 |
| UTM X (Meters): | 779788.1 |
| UTM Y (Meters): | 2000851.9 |
| Elevation: | 410 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 12360422 COAMO, PR |
| Version Date: | 2018 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

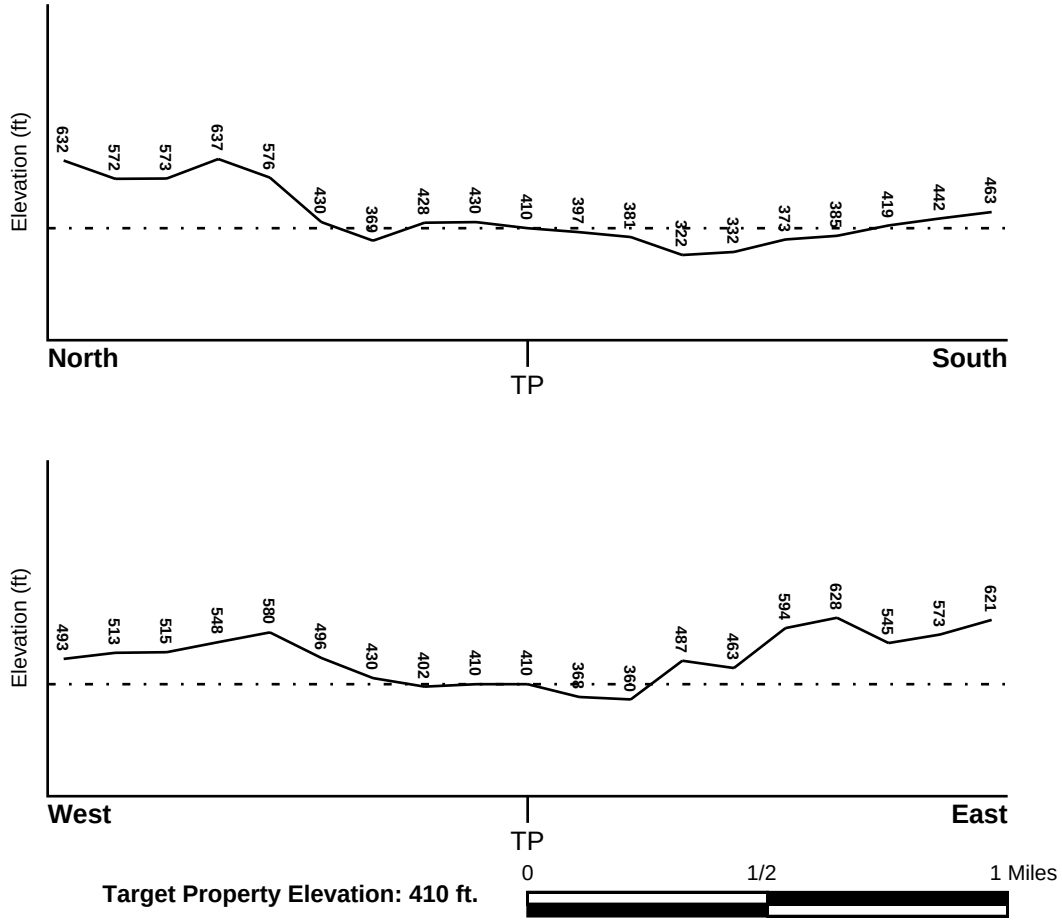
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General North

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 7200000235B | FEMA Q3 Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| Not Reported | |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| NOT AVAILABLE | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

Era: -
System: -
Series: -
Code: N/A *(decoded above as Era, System & Series)*

**GEOLOGIC AGE IDENTIFICATION**

Category: -

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CALLABO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 20 inches

Depth to Bedrock Max: > 36 inches

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | Permeability Rate (in/hr) | Soil Reaction (pH) |
| 1 | 0 inches | 5 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 0.60<br>Min: 0.20 | Max: 7.30<br>Min: 6.10 |
| 2 | 5 inches | 13 inches | silty clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 0.60<br>Min: 0.20 | Max: 7.30<br>Min: 6.10 |
| 3 | 13 inches | 19 inches | clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 0.60<br>Min: 0.20 | Max: 7.30<br>Min: 6.10 |
| 4 | 19 inches | 27 inches | clay loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils. | FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay | Max: 0.60<br>Min: 0.20 | Max: 7.30<br>Min: 6.10 |
| 5 | 27 inches | 31 inches | unweathered bedrock | Not reported | Not reported | Max: 0.60<br>Min: 0.20 | Max: 0.00<br>Min: 0.00 |

**OTHER SOIL TYPES IN AREA**

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: clay
clay loam

Surficial Soil Types: clay
clay loam

Shallow Soil Types: clay loam
clay

Deeper Soil Types: sandy loam
very gravelly - silty clay loam

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |

## FEDERAL USGS WELL INFORMATION

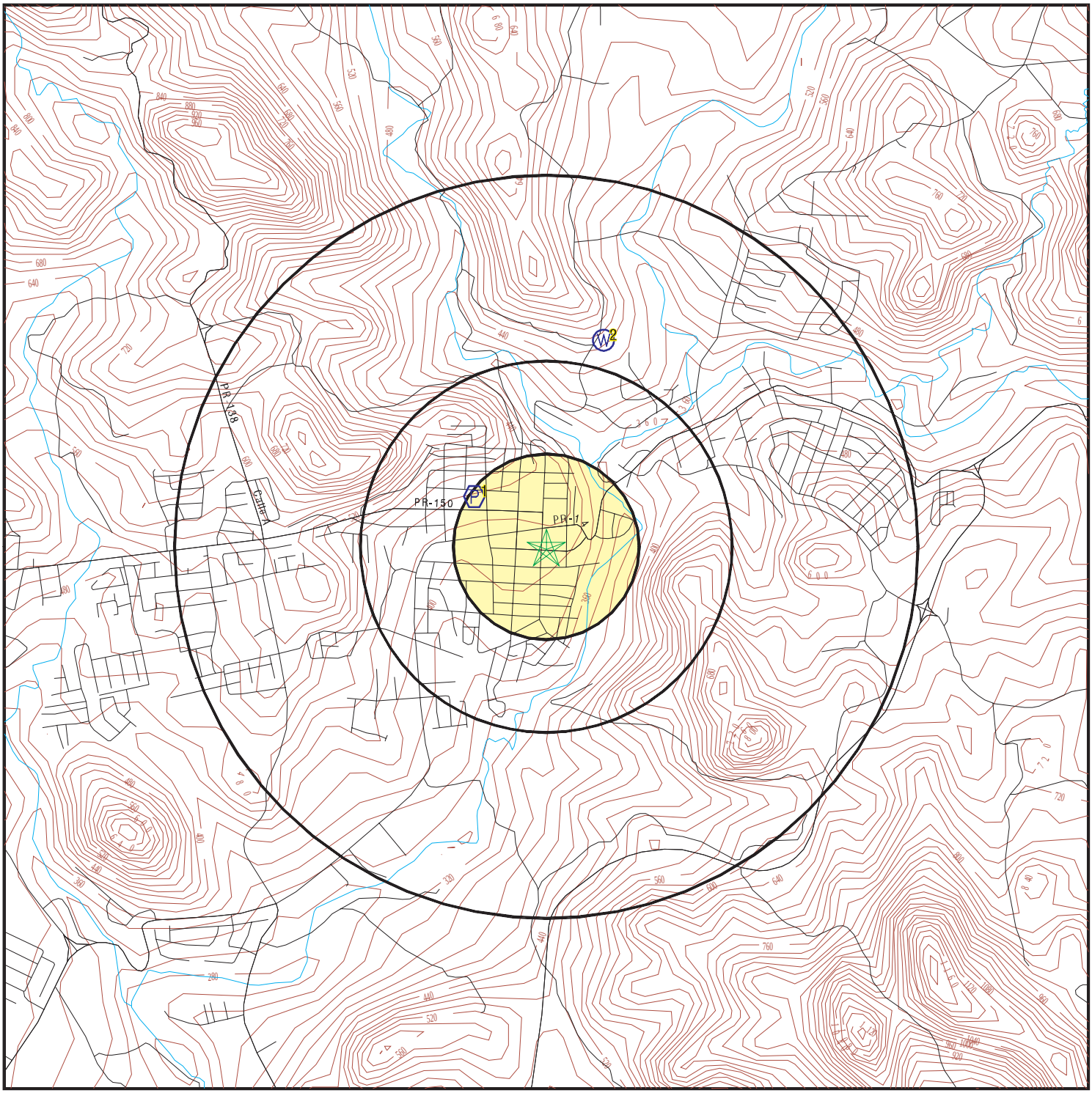
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 2 | USGS40001043869 | 1/2 - 1 Mile NNE |

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | PR0422064 | 1/8 - 1/4 Mile NW |

Note: PWS System location is not always the same as well location.

# PHYSICAL SETTING SOURCE MAP - 7837151.2s




- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location

| | | | |
|---|---|---|---|
| SITE NAME: | Los Pisos | CLIENT: | Sea Horse Wastewater Services, CSP. |
| ADDRESS: | 26 Florencio Santiago<br>Coamo PR 00769 | CONTACT: | Yancarlo |
| LAT/LONG: | 18.079385 / 66.35668 | INQUIRY #: | 7837151.2s |
| | | DATE: | December 02, 2024 3:05 pm |

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**1**
**NW**
**1/8 - 1/4 Mile**
**Higher** | **FRDS PWS** | **PR0422064**

| | | | |
|---|---|---|---|
| Epa region: | 02 | State: | PR |
| Pwsid: | PR0422064 | Pwsname: | CUY N |
| Cityserved: | Not Reported | Stateserved: | PR |
| Zipserved: | Not Reported | Fipscounty: | 72043 |
| Status: | Closed | Retpopsrvd: | 150 |
| Pwssvcconn: | 38 | Psource longname: | Groundwater |
| Pwstype: | CWS | Owner: | Private |
| Contact: | CUY N | Contactorgname: | Not Reported |
| Contactphone: | 809- | Contactaddress1: | CARR.702 KM.2.0 BO.CUY N |
| Contactaddress2: | SECTOR SEXTO I | Contactcity: | COAMO |
| Contactstate: | PR | Contactzip: | 00769 |
| Pwsactivitycode: | I | | |

| | | | |
|---|---|---|---|
| PWS ID: | PR0422064 | PWS type: | System Owner/Responsible Party |
| PWS name: | GILBERTO TORRES COLON | PWS address: | BO CUYON |
| PWS address: | BOX 443 | PWS city: | COAMO |
| PWS state: | PR | PWS zip: | 00769 |
| PWS ID: | PR0422064 | Activity status: | Active |
| Date system activated: | Not Reported | Date system deactivated: | Not Reported |
| Retail population: | 00000150 | System name: | CUY N |
| System address: | CARR.702 KM.2.0 BO.CUY N | System address: | SECTOR SEXTO I |
| System city: | COAMO | System state: | PR |
| System zip: | 00769 | | |

| | | | |
|---|---|---|---|
| County FIPS: | Not Reported | City served: | COAMO |
| Population served: | 101 - 500 Persons | Treatment: | Untreated |
| Latitude: | 180500 | Longitude: | 0662136 |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9419518 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 010194 | Violation end date: | 013194 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9419685 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 020194 | Violation end date: | 022894 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9419822 | Violation source ID: | Not Reported |

| | | | |
|---|---|---|---|
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 030194 | Violation end date: | 033194 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | Not Reported | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Not Reported |
| Violation type: | Not Reported | Violation start date: | Not Reported |
| Violation end date: | Not Reported | Violation period (months): | Not Reported |
| Violation awareness date: | Not Reported | Major violator: | Not Reported |
| Maximum contaminant level: | Not Reported | Number of required samples: | Not Reported |
| Number of samples taken: | Not Reported | Analysis method: | Not Reported |
| Analysis result: | Not Reported | | |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9420702 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 050194 | Violation end date: | 053194 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9420701 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 060194 | Violation end date: | 063094 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9420700 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 040194 | Violation end date: | 043094 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9418512 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 100193 | Violation end date: | 103193 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9418652 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 110193 | Violation end date: | 113093 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

PWS currently has or had major violation(s) or enforcement:Yes

| | | | |
|---|---|---|---|
| Violation ID: | 9418787 | Violation source ID: | Not Reported |
| PWS telephone: | Not Reported | Contaminant: | Coliform (Tcr) |
| Violation type: | Monitoring, Routine Major (TCR) | | |
| Violation start date: | 120193 | Violation end date: | 123193 |
| Violation period (months): | 001 | Violation awareness date: | Not Reported |
| Major violator: | Yes | Maximum contaminant level: | Not Reported |
| Number of required samples: | Not Reported | Number of samples taken: | Not Reported |
| Analysis method: | Not Reported | Analysis result: | Not Reported |

---

**2**
**NNE** **FED USGS** **USGS40001043869**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-PR | | |
| Organization Name: | USGS Puerto Rico Water Science Center | | |
| Monitor Location: | BON WELL, COAMO, PR | Type: | Well |
| Description: | Not Reported | HUC: | 21010004 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Not Reported | Formation Type: | Not Reported |
| Aquifer Type: | Not Reported | Construction Date: | Not Reported |
| Well Depth: | Not Reported | Well Depth Units: | Not Reported |
| Well Hole Depth: | Not Reported | Well Hole Depth Units: | Not Reported |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

## STREET AND ADDRESS INFORMATION

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## Appendix G – City Directory

**Los Pisos**
26 Florencio Santiago
Coamo, PR 00769

Inquiry Number: 7837151.5
December 03, 2024

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at approximately five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1992 through current. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

Summary information obtained is provided in the text of this report.

## RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| *Year* | *Source* | *TP* | *Adjoining* | *Text Abstract* | *Source Image* |
|---|---|---|---|---|---|
| 2020 | EDR Digital Archive | - | - | - | - |
| 2017 | Cole Information | - | - | - | - |
| 2014 | Cole Information | - | - | - | - |
| 2010 | Cole Information | - | - | - | - |
| 2005 | Cole Information | - | - | - | - |
| 2000 | Cole Information | - | - | - | - |
| 1995 | Cole Information | - | - | - | - |
| 1992 | Cole Information | - | - | - | - |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

26 Florencio Santiago
Coamo, PR 00769

### FINDINGS DETAIL

Target Property research detail.

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

# FINDINGS

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 26 Florencio Santiago | 2020, 2017, 2014, 2010, 2005, 2000, 1995, 1992 |

## Appendix H – Communications with concerning agencies

# SEA HORSE WASTEWATER SERVICES, CSP

*Civil and Environmental Engineering Services*

December 2, 2024

DEPARTAMENTO DE RECURSOS NATURALES Y AMBIENTALES
DEC 0 3 2024
RECIBIDO
OFICINA REGIONAL DE MAYAGÜEZ

Mrs. Vanessa del Moral Rosario
Director
Guayama Regional Office
Natural and Environmental Resources Department (DRNA, for its Spanish acronym)

**RE: Information Request for a Phase I Environmental Site Assessment (ESA) at Los Pisos at Coamo, Puerto Rico.**

Dear Director del Moral:

Our company was contracted to develop the referenced evaluation in compliance with standard ASTM E1527-21 and the requirements of the federal Facility Purchased, Construction, or Major Renovations Using FEMA Disaster Relief Funds. We respectfully request to review any information retained by the DRNA or the previous Environmental Quality Boards (EQB) regarding the existing property. The site, owned by the Municipality of Coamo, is located at 26 Florencia Santiago Street, PR 00769. It contains two abandoned structures: one constructed of metal and the other of concrete blocks. The coordinates of the buildings are Latitude 18°4'45.96" and Longitude -66°21'24.12".

Our technical staff can coordinate a visit to the agency, to review any environmental documents regarding this site. If you have any questions about this inquiry, please contact us.

Sincerely,

Ing. Eugenio García Vélez, MECE, PE
President / Consultant

# SEA HORSE WASTEWATER SERVICES, CSP

*Civil and Environmental Engineering Services*

December 2, 2024

Mrs. Carmen Guerrero
Director
Caribbean Environmental Protection Division
Environmental Protection Agency (EPA)

**RE: Information Request for a Phase I Environmental Site Assessment (ESA) at Los Pisos at Coamo, Puerto Rico.**

Dear Director Guerrero:

Our company was contracted to develop the reference evaluation in compliance with standard ASTM E1527 -21 and the requirements of the federal Facility Purchased, Construction, or Major Renovations Using FEMA Disaster Relief Funds. We respectfully request to review any information retained by the EPA regarding the existing property. The site, owned by the Municipality of Coamo, is located at 26 Florencia Santiago Street, PR 00769. It contains two abandoned structures: one constructed of metal and the other of concrete blocks. The coordinates of the buildings are Latitude 18°4'45.96" and Longitude -66°21'24.12".

Our technical staff can coordinate a visit to the agency, to review any environmental documents regarding this site. If you have any questions about this inquiry, please contact us.

Sincerely,

Ing. Eugenio García Vélez, MECE, PE
President / Consultant

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Guaynabo, PR 00969

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Certified Mail Fee $4.85 $4.10

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $ $0.00
- ☐ Return Receipt (electronic) $ $0.00
- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.73

Total Postage and Fees $9.68

0681 02

Postmark Here

12/03/2024

7022 3330 0000 1112 5822

Sent To
Mrs Carmen Guerrero-Directa VS EPA Region II
Street and Apt. No., or PO Box No.
City View Plaza II, #48, Rd 165, km 1.2, STE 7000
City, State, ZIP+4®
Guaynabo, P.R. 00968-8069

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Guaynabo, PR 00968

OFFICIAL USE

Certified Mail Fee $4.85 $4.10

Extra Services & Fees (check box, add fee as appropriate)
- ☐ Return Receipt (hardcopy) $ $0.00
- ☐ Return Receipt (electronic) $ $0.00
- ☐ Certified Mail Restricted Delivery $ $0.00
- ☐ Adult Signature Required $ $0.00
- ☐ Adult Signature Restricted Delivery $

Postage $0.73

Total Postage and Fees $9.68

0681 02

Postmark Here

12/03/2024

9589 0710 5270 2117 1193 13

Sent To
MRS. Carmen Guerrero Directa VS EPA Region II
Street and Apt. No., or PO Box No.
City View Plaza II, #48, Rd 165, km 1.2, STE 7000
City, State, ZIP+4®
Guaynabo, P.R. 00968-8069

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: Mrs. Carmen Guerrero
Director US EPA Region 2, Cityview Plaza II, #48, Rd 165, Km 1.2 STE 7000, Guaynabo, P.R. 00968-8069

9590 9402 8018 2305 2635 27

2. Article Number *(Transfer from service label)*
7022 3330 0000 1112 5822

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* [illegible] C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Mail
- ☐ Mail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

---

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to: MRS. Carmen Guerrero
Director US EPA, Region 2, Cityview Plaza II, #48, Rd. 165, Km 1.2 STE 7000 Guaynabo, P.R. 00968-8069

9590 9402 8018 2305 2635 03

9589 0710 5270 2117 1193 13

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* [illegible] C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

## Appendix I - Questionnaire

SEA HORSE
WASTEWATER SERVICES, CSP
Civil and Environmental Engineering Services

# Phase I Environmental Assessment Check List

Date: 26 de enero de 2025

Property Name: Pisos de Coamo

Street Address 26 Florencio Santiago Street int Dr. Jose Celso Barbosa Street

City: Coamo State: PR Zip Code: 00769

## A. Person(s) Interviewed:

**Note: This questionnaire was completed using information provided by the key manager, the neighbor, and collected data site inspection.**

Name: Hector R. Sanjurjo Rodriguez

Position: Key Manager

Address:

Phone Number: 787-803-6688

Site Knowledge:

Name:

Position:

Address:

Phone Number:

Site Knowledge:

## B. Property Description:

1. Does the firm own this property?

Yes ☑
No ☐
Unknown ☐

Comments:

2. Is the property located in urban surroundings?

Yes ☑
No ☐
Unknown ☐

Comments:

3. Is the property located in rural surroundings?

Yes ☐
No ☑
Unknown ☐

Comments:

4. Is the property located in an industrial or manufacturing area?

Yes ☐
No ☑
Unknown ☐

Comments:

5. Is the property located in a commercial area?

Yes ☑
No ☐
Unknown ☐

Comments:

6. Is the property located in a residential area?
   - Yes ☑
   - No ☐
   - Unknown ☐

Comments:

7. Is the property located in an undeveloped area?
   - Yes ☐
   - No ☑
   - Unknown ☐

Comments:

8. Is the property an industrial or manufacturing site?
   - Yes ☐
   - No ☑
   - Unknown ☐

Comments:

9. Is the property a commercial site?
   - Yes ☐
   - No ☑
   - Unknown ☐

Comments:

10. Is the property a multifamily residential site?
    - Yes ☐
    - No ☑
    - Unknown ☐

Comments:

11. Is the property undeveloped land?
    - Yes ☐
    - No ☑
    - Unknown ☐

Comments:

12. Are there any surface water bodies within 500 feet (1s2m) of the property?

Yes ☐
No ☑
Unknown ☐

Comments:

13. Is the facility in a wetland area as mapped by the Department of the Interior or state and local planning areas?

Yes ☐
No ☑
Unknown ☐

Comments:

14. Are there any available site layouts, plot plans of the facilities and property, or flow charts of processes?

Yes ☑
No ☐
Unknown ☐

Comments:

## C. Site Appearance:

**15.** Are there any indications of contamination or environmental damage on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**16.** Are there any newly surfaced areas, areas of disturbed soil or mounds of soil?

Yes ☐
No ☑
Unknown ☐

Comments:

**17.** Do any ditches or easements have any signs of sludge, discoloration, or oil sheen?

Yes ☐
No ☑
Unknown ☐

Comments:

**18.** Is there any evidence or knowledge of any pool of liquids or sumps containing liquids likely to be hazardous substances or petroleum products?

Yes ☐
No ☑
Unknown ☐

Comments:

**19.** Is there any evidence or knowledge of any complaints by the neighbors or authorities about odors, discharges, or noise from the facility?

Yes ☐
No ☑
Unknown ☐

Comments:

**20.** Does the general appearance of the facility and grounds appear to be in a state of "good housekeeping"?

Yes ☑
No ☐
Unknown ☐

Comments:

**21.** Have there been any environmental assessments, audits, regulatory inspections, soil, air, or water sampling, endangered species studies or impact statements previously conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:
Asbestos & Lead Inspections Recommended

**22.** Has an environmental professional reviewed the report as part of this assessment?

Yes ☐
No ☑
Unknown ☐

Comments:

## D. Environmental Compliance:

**23.** Has the facility been following all environmental permits and applicable Federal, State, and local laws, regulations, and ordinances?

Yes ☐
No ☐
Unknown ☑

Comments:

**24.** Has the facility-received notification of lawsuits or administration proceedings alleging violation of Federal state and local environmental laws and regulations?

Yes ☐
No ☑
Unknown ☐

Comments:

## E. Potential Liabilities:

**25.** Are there any past or current known or suspected onsite or offsite contamination concerns associated with the property or any treatment, storage, or disposal facility?

Yes ☐
No ☑
Unknown ☐

Comments:

**26.** Currently, or in the past, is there any evidence or knowledge that there is any environmental contamination testing being conducted at the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**27.** Are there any on-site environmental contamination issues being investigated by Federal, state, or local government agencies?

Yes ☐
No ☑
Unknown ☐

Comments:

**28.** Has the facility ever received notifications of any lawsuits or administration proceedings alleging contamination or damage to natural resources at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**29.** Has the firm established any reserves for environmental compliance or remediation costs?

Yes ☐
No ☑
Unknown ☐

Comments:

**30.** Are there any off-site active or inactive land disposal sites owned or operated by the firm?

Yes ☐
No ☑
Unknown ☐

Comments:

## F. Groundwater:

**31.** Is the local water supply provided by a central water system?

Yes ☑
No ☐
Unknown ☐

Comments:

**32.** Are there any known drinking water wells within a one-mile radius of the subject property?

Yes ☐
No ☑
Unknown ☐

Comments:

**33.** Is the depth to groundwater known?

Yes ☐
No ☑
Unknown ☐

Comments:

**34.** Is there any groundwater well(s) that the facility can or does monitor?

Yes ☐
No ☑
Unknown ☐

Comments:

**35.** Have contaminants been identified in any well on the property or any well within a one-mile radius of the subject property?

Yes ☐
No ☐
Unknown ☑

Comments:

## G. Subject Property: Current and Past Uses:

**36.** Is there any evidence or knowledge of any industrial or manufacturing **activities** conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

—

**37.** Is there any evidence or knowledge that the manufacturing activities are likely to indicate any recognized environmental conditions [REC] in connection with the subject property?

Yes ☐
No ☑
Unknown ☐

Comments:

**38.** Is there any evidence or knowledge of any repair or service activities, gas stations, or petroleum processing, storage or delivery activities conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**39.** Is there any evidence or knowledge of any dry cleaning, parts cleaning, equipment or machine cleaning, printing or photographic developing activities conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**40.** Is there any evidence or knowledge of any waste storage, recycling or treatment activities conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**41.** Is there any evidence or knowledge of any waste, wastewater, or land disposal activities conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**42.** Is there any evidence or knowledge of any prepackaged hazardous substances stored for distribution at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**43.** Is there any evidence or knowledge of any lawn, disinfectant, or pest control chemicals used or stored at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**44.** Is there any evidence or knowledge of any building cleaning, building painting, or building maintenance chemicals used or stored at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**45.** Is there any evidence or knowledge of any mining, quarrying, oil or gas extraction activities conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

**46.** Is there any evidence or knowledge of any special or unique activities involving toxic or hazardous materials or substances conducted at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## H. Radon:

**47.** Is the site located in an area with known regional elevated radon levels?

Yes ☐
No ☑
Unknown ☐

Comments:

## I. Lead Based Paint:

**48.** Is there any evidence or knowledge of any lead-based paint had been used at the facility?

Yes ☐
No ☐
Unknown ☑

Comments:
Lead inspection recommended

## J. Urea Formaldehyde:

**49.** Does the facility have any urea formaldehyde insulation?

Yes ☐
No ☑
Unknown ☐

Comments:

## K. Drinking Water Lead Pipes:

**50.** Is there any evidence or knowledge of any drinking water lead pipes?

Yes ☐
No ☐
Unknown ☑

Comments:

## L. Electric Magnetic Field:

**51.** Are there any electrical substations or transmission lines labeled high voltage or similar warnings located at the facility, on the property, on the easements or within 300 feet of the property line?

Yes ☐
No ☐
Unknown ☑

Comments:

## M. Fill Dirt:

**52.** Is there any evidence or knowledge of any fill dirt or fill materials been used on, applied to, or disposed of on the subject property?

Yes ☐
No ☑
Unknown ☐

Comments:

## N. Asbestos:

56. Is there any evidence or knowledge of any insulation, surfacing materials, vinyl floor tiles or fire-retardant materials installed before 1980 in the buildings or on the property?

Yes ☐
No ☐
Unknown ☑

Comments:
Asbestos inspection recommended.

## O. Polychlorinated Biphenyl (PCB's):

57. Is there any evidence or knowledge that there is fluorescent light ballast that could contain PCB's or mercury at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

58. Is there any evidence or knowledge that there are or were any electrical equipment installed before 1980 at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## P. Underground Storage Tank: Existing Tank:

59. Is there any evidence, knowledge, or physical indication of any existing underground storage tank at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## Q. Above Ground Storage Tanks (AST's):

60. Is there any evidence, knowledge, or physical indication of any above ground storage tanks at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

61. Are there any active above ground storage tanks at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

62. Are there any out of service or abandoned above ground storage tanks at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

63. Has there been any above ground storage tanks removed from the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## R. Chemical, Hazardous Substances and Petroleum Products:

64. Are there any material safety data sheets (MSDS) for raw materials or products used, produced or stored at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

65. Has the facility or does the facility participate in a Hazard Communication Program. Employee Right to Know. Community Right to Know. Toxic Chemical Inventory Reporting. Toxic Chemical Release Reporting. or Emergency Notification of Releases of Listed Extremely Hazardous Substances programs or reporting?

Yes ☐
No ☑
Unknown ☐

Comments:

66. Is there any evidence or knowledge that there are any chemicals, Hazardous substances or petroleum products used or stored at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## S. Unidentified Substances Containers:

67. Are there any containers or drums that contain unidentified substances suspected of being hazardous substances or petroleum products?

Yes ☐
No ☑
Unknown ☐

Comments:

## T. Solid Waste:

68. Is there any evidence or knowledge that there are any waste, by-products, or throw-offs generated at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## U. Sludge or Solids:

69. Is there any evidence or knowledge that there are or were any sludge or solids generated by the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

70. Is there any evidence or knowledge that there are or were any sludge's or solids spilled, disposed of, buried, spread, or abandoned at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## V. Land Disposal Activities:

71. Is there any evidence or knowledge that there are or were any waste piles, junkyards, landfills, open dumps, buried materials or wastes, construction debris or abandoned materials, drums, tanks, or equipment at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

72. Is there any evidence or knowledge that there are or were any deep wells. injection wells. or dry wells that received any wastes on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## W. Pits, Ponds, and Surface Impoundments:

73. Is there any evidence or knowledge that there are or were any pits. ponds. lakes. basins. lagoons. or surface impoundments on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## X. Industrial. Fuel. Automotive. and Waste Oil:

74. Is there any evidence or knowledge that there are or were any industrial. fuel, automotive oil used or stored, or any waste oil generated, stored, treated or disposed of at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

75. Has any oil or waste oil been used for dust control on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## Y. Batteries:

76. Is there any evidence or knowledge that there are or were any industrial or automotive batteries generated or stored at the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## Z. Empty Drums:

77. Is there any evidence or knowledge that there are or were any used or empty drums used, generated, stored, discharged, or disposed of at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## AA. Air Emissions:

78. Is there any evidence or knowledge that there are or were air emission sources, odors, fumes, visible gas, particles, or dust at the facility or on the property?

Yes ☐
No ☑
Unknown ☐

Comments:

## BB. Sanitary Wastewater:

79. Does the facility discharge sanitary wastewater to a municipal sewer system?

Yes ☑
No ☐
Unknown ☐

Comments:
PRASA

80. Does the facility discharge wastewater to an onsite septic system or leaching field?

Yes ☐
No ☑
Unknown ☐

Comments:

81. Is there any evidence that there are floor drains, roof drains, and catch basins, pits or sumps that could discharge spills, leaks, or releases from process areas, chemical storage areas, above ground storage tanks, machinery or electrical equipment to the sanitary sewer?

Yes ☐
No ☑
Unknown ☐

Comments:

## CC. Storm Water Runoff:

82. Is storm water runoff discharged to a municipal sewer system?

Yes ☑
No ☐
Unknown ☐

Comments:

83. Is storm water runoff discharged to surface water?

Yes ☑
No ☐
Unknown ☐

Comments:

84. If yes, are there any floor drains, roof drains, catch basins, pits or sumps that could discharge spills, leaks, or releases from process areas, chemical storage areas, above ground storage tanks, machinery or electrical equipment to the surface water?

Yes ☐
No ☑
Unknown ☐

Comments:

85. Do any floor drains, roof drains, catch basins, pits, or sumps have any signs of contamination?

Yes ☐
No ☑
Unknown ☐

Comments:

86. . Does any surface water or storm water discharge points have any signs of contamination?

Yes ☐
No ☑
Unknown ☐

Comments:

87. Is there any evidence or knowledge that there are or were any ponds, pits, lagoons, surface impoundments or settling ponds used to store or treat storm water?

Yes ☐
No ☑
Unknown ☐

Comments:

## DD. Industrial Wastewater:

88. Does the facility discharge any treated or non-treated industrial wastewater?

Yes ☐
No ☑
Unknown ☐

Comments:

## EE. Neighboring Properties: Current and Past Activities:

**89.** Is there any evidence or knowledge of any industrial or manufacturing **activities** conducted at any of the adjacent properties?

Yes ☐
No ☑
Unknown ☐

Comments:

90. Is there any evidence or knowledge that there are or were any containers or tanks that contain chemicals used at any of the adjacent properties?

Yes ☐
No ☑
Unknown ☐

Comments:

91. Is there any evidence or knowledge that there are or were any hazardous substances used or stored at any of the adjacent properties?

Yes ☐
No ☑
Unknown ☐

Comments:

1/27/25

Signature Date

## Appendix J - Inactive LUST Sites List (2020)

# INACTIVE SITES LUST LIST

## 2020

| UST ID | NAME | CITY | ADDRESS | OWNER | DTKNOWN | HOWKNOWN | DT-RELEASED |
|---|---|---|---|---|---|---|---|
| 86-0368 | Municipio de Carolina | Carolina | Calle 24 | Gulf-Chevron | 23-Jun-99 | UST Removal | 28-Oct-98 |
| 86-0369 | Garaje Culebrinas | San Sebastián | Carr. 109 Km. 27.5 | Garaje Culebrinas | Unknown | Unknown | 17-Mar-15 |
| 86-0379 | Gulf # 395 | Guaynabo | Carr 20 km 9.2 | Gulf-Chevron | Unknown | UST Removal | 3-Apr-95 |
| 86-0380 | Adalberto Luciano | Carolina | Carr 860 km 0.2 Rolling Hiils | Gasolinas de Puerto Rico | 29-Jun-94 | UST Removal | 4-Apr-95 |
| 86-0384 | Gulf #405 | Ciales | Carr. 149 Km. 15.5 | Gulf-Chevron | 23-Jan-02 | Unknown | 5-Apr-95 |
| 86-0401 | GPR #2127 | Bayamón | Calle Santa Rosa | Gasolinas de Puerto Rico | 21-Jan-94 | UST Removal | 4-Oct-01 |
| 86-0403 | Gulf # 454 | Aibonito | Carr. 162 Km. 5.1 | Gulf-Chevron | 3-Oct-03 | UST Removal | 7-Apr-95 |
| 86-0404 | Gulf 456 | San Juan | Ave. Fernández Juncos | Caribbean Petroleum Corp | 10-Feb-00 | UST Removal | 23-Jan-01 |
| 86-0405 | Sr. Jose Sánchez/Coqui | Caguas | Carr 189 km 1.7 | Texaco Puerto Rico | 7-Dec-00 | Unknown | 30-Sep-04 |
| 86-0407 | Digital | San Germán | Carr362 km1.0 Front of Urb. El Convento | Digital Equipment Corp | 5-Aug-97 | Product in MW | 22-Sep-00 |
| 86-0419 | Palmas del Mar | Humacao | Carr. #3 km. 86.4 | Palmas del Mar Resort | 31-Mar-94 | Product in Soil/GW | 17-May-02 |
| 86-0424 | Correo Hato Rey | San Juan | 585 Roosevelt BLVD | U.S. Postal Service | 21-Jun-94 | Product in MW | 12-Apr-95 |
| 86-0447 | Baxter | Maricao | Carr 357 km 0.8 | Baxter Healthcare Corp | Unknown | UST Removal | 13-Apr-95 |
| 86-0453 | Sola Basic | Carolina | Lote 29 Parque Industrial | Mega Tran | 12-Jan-00 | Product /Closure | 14-Apr-95 |
| 86-0579 | Carlos R. Cordero | Manatí | Carr 686 km 0.5 | Schering Industrial Develop | 29-Mar-99 | UST Removal | 15-Apr-95 |
| 86-0585 | El Comandante | Canóvanas | Carr. 3 Km. 15.3 | El Comandante | 5-Jun-97 | Spill Notification | 30-Sep-05 |
| 86-0592 | LOM Service Station | San Juan | Carr. 1 Km. 13.5 Sector El Cinco | Tren Urbano | 5-Oct-00 | UST Removal | 11-Oct-02 |
| 86-0595 | Holsum | Toa Baja | Carr 2 km 20.1 | Holsum Bakers of PR | 4-May-94 | UST Removal | 18-Apr-95 |
| 86-0598 | Warner Lambert Inc. | Vega Baja | Ruta 689 km 1.9 | Warner Lambert Inc. | 28-May-99 | Free Product | 19-Apr-95 |
| 86-0602 | Shell #804568 | Aguas Buenas | Carr 173 km 8.5 | Shell Company (P.R.) Limited | 16-Sep-96 | Unknown | 12-Dec-96 |
| 86-0608 | Shell #4436 | Bayamón | Bayamón | Shell Company (P.R.) Limited | 8-Nov-01 | Product in MW | 23-Jul-03 |
| 86-0612 | Felix Miranda s/s | Bayamón | Carr 167 km 18.5 | Shell Company (P.R.) Limited | 10-Aug-99 | Unknown | 27-Dec-02 |
| 86-0614 | Shell #4589 | Guaynabo | Carr 20 km 0.4 | Shell Company (P.R.) Limited | 10-May-99 | Product Spill | 17-Dec-03 |
| 86-0617 | Shell #804525 | Bayamón | Carr. 2 Km. 12.0 | Shell Company (P.R.) Limited | 21-Nov-95 | UST Removal | 24-Apr-95 |
| 86-0618 | Shell Company (PR) LTD. | Dorado | Call Méndez Vigo # 274 | Shell Company (P.R.) Limited | 30-Jul-03 | Free Product | 6-Sep-05 |
| 86-0619 | Shell Service Station #204284 | Bayamón | Carretera #2 Centro Comercial Santa Rosa | Shell Company (P.R.) Limited | 16-May-13 | UST Removal | 29-Jan-18 |
| 86-0625 | Shell #804690 | Guaynabo | Carr. 177 Km. 2.2 Los Filtros | Shell Company (P.R.) Limited | Unknown | Unknown | 23-Oct-07 |
| 86-0627 | Shell #3995 | Humacao | Carr 3 km 82.2 Ext. Buxo | Shell Company (P.R.) Limited | 28-Sep-95 | Unknown | 2-Apr-03 |
| 86-0628 | Shell 804967 | San Juan | Ave 65 Infanteria esq. Calle Napoles | Shell Company (P.R.) Limited | 14-Jan-99 | Unknown | 28-Apr-95 |
| 86-0629 | Shell #4770 | San Juan | Viejo San Juan - Calle Comerío | Shell Company (P.R.) Limited | 14-Sep-01 | Unknown | 29-Apr-95 |
| 86-0636 | Shell #4070 | Mayagüez | Carr 2 km 148.7 | Shell Company (P.R.) Limited | 28-Jan-00 | Monitoring Well | 16-Dec-15 |
| 86-0638 | Santiago S/S | Coamo | Carr. 14 Km. 31.7 | José Santiago (Shell) | 22-Sep-93 | Unknown | 15-Sep-05 |
| 86-0643 | Shell #804541 | Corozal | Carr. 159 km. 12.1 | Shell Company (P.R.) Limited | 30-Sep-96 | Product in MW | 1-Mar-02 |
| 86-0647 | Shell 804428 | Bayamón | Carr. 28 Km. 2 | Shell Company (P.R.) Limited | 8-Nov-99 | UST Removal | 3-May-95 |
| 86-0648 | Shell #804517 | Bayamón | Carr. 167 km. 9.6 | Shell Company (P.R.) Limited | 11-May-00 | UST Removal | 15-Apr-05 |

# INACTIVE SITES LUST LIST

## 2020

| UST ID | NAME | CITY | ADDRESS | OWNER | DTKNOWN | HOWKNOWN | DT-RELEASED |
|---|---|---|---|---|---|---|---|
| 86-1741 | Venus Gardens S/S 388 | San Juan | Calle Acuario y Lesbos / Venus Gardens | Chevron Puerto Rico | 16-Sep-96 | Product in MW | 18-Sep-02 |
| 86-1761 | La Riviera S/S 215 | San Juan | Ave De Diego Esq. Calle 48/ La Riviera | Texaco Puerto Rico | 1-Jan-95 | UST Removal | 25-Nov-95 |
| 86-1784 | Coquí S/S | Salinas | Carr. #3, Km. 151.2, Bo. Coquí | Texaco Puerto Rico | 16-Sep-96 | Unknown | Unknown |
| 86-1787 | Texaco S/S #801 | Ponce | Calle Ferrocarril, Esq. Calle Hostos | Texaco Puerto Rico | 29-Jun-94 | UST Removal | 26-Jun-97 |
| 86-1793 | Texaco S/S #600 | Mayagüez | Calle Post 224 | Texaco Puerto Rico | 11-Oct-02 | UST Removal | 10-Mar-04 |
| 86-1795 | Antes Texaco/Hormigueros S/S #675 | Hormigueros | Carr. #2, Km. 166.0, Bo. Lavadero | Texaco Puerto Rico | 29-Jun-94 | UST Removal | 29-Nov-95 |
| 86-1796 | Texaco 869 | Ponce | Carr. 132, Km. 23.6, Bo. Cañas | Chevron Puerto Rico | 21-Oct-08 | UST Removal | 27-Feb-17 |
| 86-1823 | Texaco #674 (Boquerón S/S) | Cabo Rojo | Carr. 101 Km. 2.6 | Texaco Puerto Rico | Unknown | Product Spill | 7-Nov-08 |
| 86-1826 | Texaco #667/Juan Aponte | Cabo Rojo | Carr. 102 Km. 23.9, Bo. Monte Grande | Texaco Puerto Rico | Unknown | UST Removal | 30-Mar-04 |
| 86-1833 | Ex. Texaco 690 | Mayagüez | Carr. #106, Km. 10.9 | Texaco Puerto Rico | Unknown | UST Removal | 24-Feb-98 |
| 86-1835 | Humberto Ramírez S/S #624 | Rincón | Carr. 115 Km. 13, Bo. Pueblo | Chevron Puerto Rico | 27-Feb-01 | Product in MW | 18-Sep-07 |
| 86-1836 | Texaco #681 | San Sebastián | Carr. 119 Km. 23.2, Bo. Aibonito | Texaco Puerto Rico | Unknown | UST Removal | 12-Mar-04 |
| 86-1848 | Noryluz Vélez S/S 654 | Cabo Rojo | Carr. 101, Bo. Boquerón | Texaco Puerto Rico | Unknown | Product in MW | 30-Sep-04 |
| 86-1853 | Unknown | Sabana Grande | Calle Felix 110 | Texaco Puerto Rico | 22-Feb-02 | UST Removal | 6-Dec-95 |
| 86-1857 | Texaco S/S #613 | San Germán | Calle Luna # 123 | Texaco Puerto Rico | Unknown | Product in MW | 30-Sep-04 |
| 86-1869 | Roberto Amaro S/S #847 | Patillas | Carr. 3 Km. 114 | Texaco Puerto Rico | 16-Sep-96 | Unknown | 3-Dec-03 |
| 86-1875 | Texaco #819 | Coamo | Ave. Jose Quinton | Texaco Puerto Rico | Unknown | Unknown | 20-Dec-99 |
| 86-1876 | Ex-Texaco Ramón Padua | San Sebastián | Carr. #435 Km. 4.5, Bo. Perchas, Calabaza | Texaco Puerto Rico | Unknown | UST Removal | 21-Mar-05 |
| 86-1880 | Roberto Ortiz S/S | San Sebastián | Carr 119 km 39.9 | Texaco Puerto Rico | 17-Jul-86 | UST Removal | Unknown |
| 86-1894 | Caribe Tuna | Ponce | Muelle Ponce | Texaco Puerto Rico | 1-Jul-86 | UST Removal | 2-Nov-99 |
| 86-1901 | Unknown | Vega Baja | Cabo Caribe Ind. Park , Calle 686 | Thomas & Betts Caribe | Unknown | UST Removal | 12-Dec-95 |
| 86-1911 | Estación Experimental Agrícola de la UPR | Gurabo | Carr 189 km 7.3 Bo Rincón | Estación Exp. Agrícola de la UPR | Unknown | UST Removal | 20-Aug-10 |
| 86-1916 | Punta Salinas Radar Site | Toa Baja | Carr. 868 Km. 0.9 | P.R. Air National Guard | Unknown | Unknown | Unknown |
| 86-1917 | Muñiz Air National Guard Base | Carolina | Carr. 200 Sec. Central 80 | PR Air National Guard | 13-Mar-00 | UST Removal | Unknown |
| 86-1917 | Muñiz Air National Guard Base - Site 6 | Carolina | Muñiz Air Base | PR Air National Guard | Unknown | UST Removal | 12-Oct-18 |
| 86-1925 | Guardia Nacional / Arecibo | Arecibo | Carr 129 km 4 | P.R. National Guard | 1-Dec-97 | UST Removal | 14-Dec-95 |
| 86-1931 | P.R. National Guard | Mayagüez | MAYAGUEZ ARMORYRD # 2 | P.R. National Guard | 26-Apr-96 | UST Removal | 28-Aug-96 |
| 86-1942 | Facility 1935 | Mayagüez | Carr 2 | Sears of Puerto Rico | 30-Apr-96 | Unknown | 16-Dec-95 |
| 86-1944 | Caribbean Petroleum Corporation | Dorado | PR-2 Km. 26.7, Bo. Espinosa | Caribbean Petroleum Corporation | Unknown | Unknown | 1-Aug-95 |
| 86-1956 | Centro Mantenimiento Caguas | Caguas | Carr. 52 | Autoridad Carreteras y Transportación | 20-Oct-99 | UST Removal | 21-Jun-00 |
| 86-1964 | Colegio Universitario Humacao | Humacao | Carr 908 Ave Tejas km 1.3 / Bo. Tejas | Colegio Universitario Humacao | 2-May-96 | Product in MW | 14-Sep-00 |
| 86-1966 | Shell-Alco | Canóvanas | Carr. 185, Km. 4.2 | Shell Company (P.R.) Limited | 3-Sep-99 | UST Removal | 30-Mar-09 |
| 86-2000 | Esso- 2P 022 | Aguas Buenas | Carr. #156 Km. 49.7, Bo. Sumidero | Esso Standard Oil Co. | 9-May-01 | UST Removal | Unknown |
| 86-2013 | Ryder Memorial Hospital Inc. | Humacao | Ave. Font Martelo No. 317 | Ryder Memorial Hospital Inc. | Unknown | Unknown | Unknown |
| 86-2021 | Gulf S/S 383 | Loíza | Carr. 187 Km. 10.6 | Caribbean Petroleum Limited Partnership | 8-May-98 | UST Removal | 15-May-00 |

# INACTIVE SITES LUST LIST

## 2020

| UST ID | NAME | CITY | ADDRESS | OWNER | DTKNOWN | HOWKNOWN | DT-RELEASED |
|---|---|---|---|---|---|---|---|
| 91-0136 | GPR #5225 | San Lorenzo | Carr 183 km 2.6 | Gasolinas de Puerto Rico | 16-Mar-99 | UST Removal | 30-Sep-99 |
| 91-0143 | Cantera S/S | San Juan | Ave. Barbosa #710 | Víctor Fernández | 11-May-00 | Product in MW | 5-Nov-03 |
| 91-0146 | GPR #5287 | Aguas Buenas | Carr. 173 Barrio Jagueyes | Gasolinas de Puerto Rico | 23-Aug-00 | UST Removal | 26-Feb-01 |
| 91-0154 | Shell #3786 | San Juan | Calle Sicilia Urb. San José | Shell Company (P.R.) Limited | Unknown | Unknown | Unknown |
| 91-0164 | Guerrero Remoto | Isabela | Carr. 2 Km. 113, Bo. Remoto | PR Telephone Company | 11-Apr-00 | UST Removal | 3-Jun-05 |
| 91-0194 | Texaco #991 | Toa Baja | Carr. 2 Km. 70.3 Candelaria | Texaco Puerto Rico | 22-Jan-01 | Product in MW | 16-Sep-03 |
| 91-0195 | Luis Medina S/#S 940 | Canóvanas | Carr. 188 Km. 1.5, Bo. San Isidro | Chevron Texaco PR | 16-Sep-96 | Product in MW | 18-Sep-07 |
| 91-0201 | JAUCA S/S | Santa Isabel | Carr. #1 Km. 100, Bo. Jauca | Two J&T Corporation | Unknown | Unknown | Unknown |
| 91-0296 | Centro Servicio Quintana | Moca | Carr. 125 Km. 14.0, Bo. Capa | Edgar Quintana | 9-Aug-00 | UST Removal | 10-Apr-02 |
| 91-0309 | Aut. de Comunicaciones de PR | San Juan | Ave. Muñoz Rivera Esq. Jesús T. Piñero | Esso Standard Oil Co. | Unknown | Product in MW | 8-Aug-08 |
| 91-0313 | Schnizer PR (Desestanería Goldschmidt Caribe) | Salinas | Carr. 3, Km. 156.4 | Schnitzer Puerto Rico (dba: Ponce Resource | Unknown | Unknown | Unknown |
| 91-0332 | Shell | Lajas | Carr 65 Infantería #23 | Ángel Lugo | 3-Nov-00 | UST Removal | 24-Jul-03 |
| 91-0333 | Adán Caraballo S/S #322 | Las Piedras | Carr. 198 Km. 5.1, Bo. Quebrada Arenas | Texaco Puerto Rico | 15-Jul-97 | Product in MW | 17-Apr-02 |
| 91-0383 | Total #3304 (Antiguo Isla S/S) | San Juan | Carr. 176 Km 8.1, Cupey Alto | Isla Petroleum Corporation | 22-Sep-97 | High Values (Integrity Test) | 17-Jan-07 |
| 91-0389 | GPR #5097 | San Sebastián | Carr. 111 Km. 20.7, Ave. Emerito Estrada #208 | Gasolinas de Puerto Rico | 15-Jun-98 | Spill Suspect | 29-Sep-99 |
| 91-0395 | GPR #1242 | Moca | Carr. 111 Km. 8.4 Bo. Voladoras | Gasolinas de Puerto Rico | 25-May-99 | Closure (High Values) | 9-Mar-20 |
| 91-0397 | GPR #5246 | Coamo | Carr. 150 Km. 18.7 | Gasolinas de Puerto Rico | 30-Jun-00 | UST Removal | 22-Jun-01 |
| 92-0001 | Esso SC-441 | Jayuya | Carr. #144, Km. 4.4, Bo. Coabey | Esso Standard Oil Co. | 30-Jan-93 | UST Removal | 27-Oct-05 |
| 92-0020 | Warnaco | Aguas Buenas | Carr 156 km 51.4 | Warnaco Men's Sportwear | 4-Sep-90 | Unknown | 10-Mar-96 |
| 92-0041 | Leaseway | Carolina | Unknown | Leaseway of PR | 10-Feb-97 | Unknown | 11-Mar-96 |
| 92-0046 | Texaco # 285 | Guaynabo | Carr. 20 Km. 6.9, Bo. Camarones | Jorge Avilés | 7-Sep-01 | Product in MW | 4-Aug-04 |
| 92-0054 | Planta de Alcantarillado de Yauco | Yauco | Calle 23 de Julio Carr. 335 Km. 11 | Autoridad de Acueductos y Alcantarillados | Unknown | UST Removal | 21-Mar-02 |
| 92-0063 | Planta de Alcantarillado Regional de Ponce | Ponce | Carr 2 km 258.2 | Autoridad de Acueductos y Alcantarillados | Unknown | UST Removal | 8-Apr-02 |
| 92-0072 | Estación Bomba | Cidra | Urb Treasure Valley | Autoridad de Acueductos y Alcantarillados | Unknown | UST Removal | 22-May-02 |
| 92-0079 | Autoridad de Energía Eléctrica | Yauco | Bo. Almacigo Alto | Central Hidroeléctrica Yauco II | 6-Mar-01 | UST Removal | Unknown |
| 92-0090 | Estacion Bombas Rexville | Bayamón | Carr 167 Calle 21/ Urb. Rexville | PR Aqueduct & Sewer Autho | 7-Aug-98 | Product in MW | 27-Apr-99 |
| 92-0091 | Pump STA. Dorado del Mar | Dorado | Carr 693 Calle 2, Dorado del Mar | Prasa | 15-Oct-90 | UST Removal | 27-Jun-03 |
| 92-0097 | Planta Alcantarrillado | Cabo Rojo | Camino La Charca Urb. Santa María | Autoridad Acueductos y Alcantarillados | Unknown | Unknown | 30-Apr-99 |
| 92-0105 | American Agencies | Carolina | Carr. 887 Km. 0.9 | American Agencies Co. Inc. | 8-Jun-98 | Product Spill | 15-Sep-03 |
| 92-0112 | Packaging Unlimited Inc. | Guaynabo | Carr 24 km 2.6 | Packaging Unlimited Inc. | Unknown | Product on Manhole | 30-Jan-96 |
| 92-0117 | Texaco #509/Juan Figueroa S/S | Guayama | Calle Calimano 162 Norte Esq. San Agustín | Jose M. Sabatier Castro | 24-Jan-96 | Product in Soil | 18-Sep-03 |
| 92-0122 | P.R. Container | Bayamón | Carr 2 km 15.2 Corujo Ind. Park/ Hato Tejas | Unión Camp PR | Unknown | UST Removal | 7-Jun-02 |
| 93-0002 | Casher, Inc. | Ponce | Ave. Hostos #19 | San Juan Oil Comp./Orlando del Castillo | 4-Aug-97 | UST Removal | Unknown |
| 93-0007 | Hospital Guayama (Hospital Episcopal San Lucas) | Guayama | Ave. Pedro Albizu Campos Bo. Machete | Hospital Regional de Guayama | Unknown | UST Removal | 12-Agu-20 |
| 93-0009 | Lco. Angel M. Rivera Munich | San Juan | Calle Ponce de León | Panadería Lisboa Antigua | 23-Aug-95 | UST Removal | 18-Sep-01 |

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

**Memorandum to File**

**Date:** July 9th, 2025

*Patrick Stokes*

**From:** Patrick Stokes
Environmental Planner
CDBG-DR Program
City Revitalization Program
Puerto Rico Department of Housing

**Application Number:** PR-CRP-000145
**Project:** Proyecto Residencial Comercial Pisos de Coamo FS26

**Re: Justification for the Infeasibility and Impracticability of Radon Testing**

After reviewing Application Number PR-CRP-000145 under the City Revitalization Program **(CRP),** 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

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Carmen R. Guerrero Pérez
Director
Caribbean Environmental Protection Division
City View Plaza II – Suite 7000
#48 Rd. 165 km 1.2
Guaynabo, PR 00968-8069

*Via email: guerrero.carmen@epa.gov*

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.





Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Oleg Povetko, Povetko.Oleg@epa.gov
Mr. Matthew Laurita, laurita.matthew@epa.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Silvina Cancelos
Professor
College of Engineering
University of Puerto Rico – Mayagüez Campus
259 Norte Blvd. Alfonso Valdés Cobián
Mayagüez, Puerto Rico

*Via email: silvina.cancelos@upr.edu*

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

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Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365
Tel. (787) 274-2527 | www.vivienda.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Dr. Carlos Marín, carlos.marin3@upr.edu

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Jessica Irizarry
Director
Office of Island Affairs
U.S. Centers for Disease Control and Prevention
1324 Cll Canada, San Juan, 00920
Guaynabo, PR 00968-8069

*Vía email: OIA@cdc.gov*

**RE: Request for information regarding available data on radon testing and levels within Puerto Rico**

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Anaís Rodríguez
Secretary
Puerto Rico Department of Natural Resources
Carretera 8838, km. 6.3, Sector El Cinco,
Río Piedras San Juan, PR 00926

*Vía email: anais.rodriguez@drna.pr.gov*

**RE: Request for information regarding available data on radon testing and levels within Puerto Rico**

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Luis Márquez, secretariaaire@drna.pr.gov
Eng. Amarilys Rosario, aire@drna.pr.gov
Mrs. Elid Ortega, eortega@drna.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Dr. Carlos R. Mellado López
Secretary
Puerto Rico Department of Health
PO Box 70184
San Juan, PR 00936-8184

*Vía email: drcarlos.mellado@salud.pr.gov*

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

Mrs. Holly Weyers
Regional Director, Southeast – Puerto Rico
US Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607

*Vía email: hsweyers@usgs.gov*

**RE: Request for Information regarding available data on radon testing and levels within Puerto Rico**

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Request for Information in relation with HUD CPD-23-103 for Puerto Rico
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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. R. Randall Schumann, rschumann@usgs.gov

**From:** Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>
**Sent:** Tuesday, September 3, 2024 6:36 AM
**To:** Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszotarski, Peter (CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)
**Cc:** Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)
**Subject:** RE: REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

In response to the request from Mr. William Rodriguez of the Department of Housing, Government of Puerto Rico, I have reviewed all the available data within the CDC National Environmental Public Health Tracking Network system for data related to radon in Puerto Rico. In addition to the tracking data available on the internet, I also reached out to Mr. Aaron Vinson of the NCEH Tracking Branch.

I was not able to find any data in the CDC systems and this was confirmed by Mr. Vinson. We also reached out the US Environmental Protection Agency who indicated they had no radon data in their systems. Please relay this information to Mr. Rodriguez in your response to his requests

If you have any additional questions, please contact me.

Thank you and best regards,

Paul A. Charp, Ph.D., Fellow, HPS
Senior Health Physicist
Emerging Environmental Hazards and Health Effects Branch (EEHHEB)
Division of Environmental Health Science and Practice (DEHSP)
National Center for Environmental Health (NCEH)
Centers for Disease Control and Prevention (CDC)
pcharp@cdc.gov
770-488-0723 office
404.388.0614 Cell

**From:** Schumann, R. Randall <rschumann@usgs.gov>
**Sent:** Wednesday, August 21, 2024 4:39 PM
**To:** Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov>
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>
**Subject:** RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

In the early 1990s the U.S. Geological Survey (USGS) conducted geologic assessments of radon potential for all 50 states and the territories of Guam and Puerto Rico, in collaboration with the U.S. EPA. I conducted the geologic radon potential assessment for Puerto Rico. The PDF file of the report is too large to attach to this message but it can be obtained at https://pubs.usgs.gov/of/1993/0292k/report.pdf. The USGS did not conduct indoor radon testing and we did not conduct field studies associated with this assessment; it was based on existing data. Mr. David Saldana of the Puerto Rico Department of Health kindly provided us with data for 610 homes that were tested for indoor radon by his agency between 1993 and 1995, which are summarized in the report. I am not aware of any other radon-related geologic studies conducted in the Commonwealth of Puerto Rico by the U.S. Geological Survey.

Best regards,

R. Randall Schumann
Scientist Emeritus
U.S. Geological Survey
Geosciences and Environmental Change Science Center
Denver, Colorado, USA
rschumann@usgs.gov
https://www.usgs.gov/staff-profiles/r-randall-schumann

---

**From:** Raul Hernandez Doble <rhernandez2@salud.pr.gov>
**Sent:** Wednesday, August 21, 2024 2:13:31 PM
**To:** Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov>
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>
**Subject:** RE: [EXTERNAL]Request for Information- Randon testing and levels

Good afternoon. Ms. Medina

I regret to inform that we do not have any recent information on radon testing, since we do not have a certified radiation laboratory certified for radon testing. There are companies that sell test kits available online that can be done and mailed to a testing laboratory. There are also lists of radon contractors and these companies that process radon testing cartridges with instructions, on the Environmental Protection Agency Indoor air Quality web page. The last radon study in Puerto Rico done by the PR Department of Health was done on the year 1993.

Raul Hernandez Doble
Director, Seccion Salud Radiologica
Division de Salud Ambiental
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica
rhernandez2@salud.gov.pr
Phone: (787)765-2929 ext. 3210

**From:** Reyes, Brenda <Reyes.Brenda@epa.gov>
**Sent:** Wednesday, September 18, 2024 11:48 AM
**To:** Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>
**Subject:** RE: Request for Information- Randon testing and levels

Saludos.

La EPA esta trabajando una respuesta a su petición. Se sometió borrador a la directora y el subdirector para su aprobación y firma.

Brenda Reyes Tomassini
Public Affairs
U.S. EPA
Region 2
Caribbean Environmental Protection Division
(787) 977-5869/(787) 977-5865
Mobile: 202-834-1290

---

**From:** Silvina Cancelos Mancini <silvina.cancelos@upr.edu>
**Sent:** Friday, September 6, 2024 15:04
**To:** Melanie Medina Smaine <mmedina@vivienda.pr.gov>
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Reyes, Brenda <Reyes.Brenda@epa.gov>; Povetko, Oleg <Povetko.Oleg@epa.gov>
**Subject:** Re: Request for Information- Randon testing and levels

Estimada Melanie Medina
Quería dejarle saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvina Cancelos
Professor
Associate Director
Mechanical Engineering Department
University of Puerto Rico - Mayaguez
Call BOX 9000 Mayaguez PR 00680
Tel: 787-832-4040 ext 5956
email: silvina.cancelos@upr.edu

Bubble Dynamics Lab
University of Puerto Rico - Mayagüez

EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

**VIA EMAIL**

William O. Rodríguez Rodríguez, Esq.
Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

**RE: EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico**

Dear Honorable Secretary Rodríguez Rodríguez:

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico.

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and ventilation allow for soil-gas radon to enter and concentrate within the structure.[1] According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993-1995 study documentation is not available to the EPA.

Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered devices) are impractical in Puerto Rico because of high humidity and power outages. The recovery and rebuilding of communities following the aftermath of 2017 Hurricanes Irma and Maria presented an opportunity to develop radon prevention and mitigation strategies in 2019. Initially, EPA sampled indoor radon air in over 170 single-family residences in the municipalities of San Sebastian, Lares, Ciales, Arecibo, Morovis, Camuy, and Hatillo and later expanded the project to other municipalities such as Rincon, Aguada, Aguadilla, Isabela, Quebradillas, Barceloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) standards of practice (ANSI/AARS, 2019). The sampling was designed in two stages: scoping and confirmatory sampling. The scoping sampling was conducted using Corentium Home (CH) electronic monitors and E-Perm systems. Locations measuring above the EPA Action Level of 4 pCi/L with CH were measured at the second stage of the sampling using RAD7 and Corentium Pro Continuous Radon Monitors (CRMs). Nationally certified radon sampling professionals led by one such professional from the UPRM conducted confirmatory sampling in the second stage. Also, during the study, the nationally certified radon mitigation professionals inspected several homes with elevated indoor radon levels.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in 2020. EPA and UPRM continue to work on the project, however, results have not been finalized, and no scientific report has been published yet. Unfortunately, EPA cannot share preliminary data at this time because it contains privileged information. Nevertheless, preliminary data from the study does show homes with levels over 4 pCi/L (EPA Action Level) that might need mitigation to protect the health of their inhabitants.

Although many states have developed laws and regulations governing radon disclosure, certification, and mitigation, Puerto Rico lacks legislation or mandatory radon testing provisions for new construction, remodeling, selling or buying homes. Given this loophole and aiming to answer your request, the EPA can provide information on Best Management Practices for sampling indoor radon in Puerto Rico.

[1] **Reference**: USGS. Geologic Radon Potential of Guam and Puerto Rico, Report 93-292-K. Washington, DC: USGS. Retrieved 9/11/2024, from https://pubs.usgs.gov/of/1993/0292k/report.pdf.

CITY VIEW PLAZA II BUILDING, 7TH FLOOR
ROUTE 165 GUAYNABO, PR 00968



If you have any questions or need any additional information, please contact me at 787-977-5865 or guerrero.carmen@epa.gov or have your staff contact Reyes, Brenda at reyes.brenda@epa.gov or (787) 977-5869.

Sincerely,

CARMEN GUERRERO PEREZ

Digitally signed by CARMEN GUERRERO PEREZ
Date: 2024.09.23 09:41:39 -04'00'

Carmen R. Guerrero Pérez
Director

cc: Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)
Melany Medina: mmedina@vivienda.pr.gov
Elaine Dume Mejia: Edume@vivienda.pr.gov
Luz S Colon Ortiz: Lcolon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov
Cesar O. Rodriguez: cesarrodriguez@drna.pr.gov
Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov

Attachments 7A-B

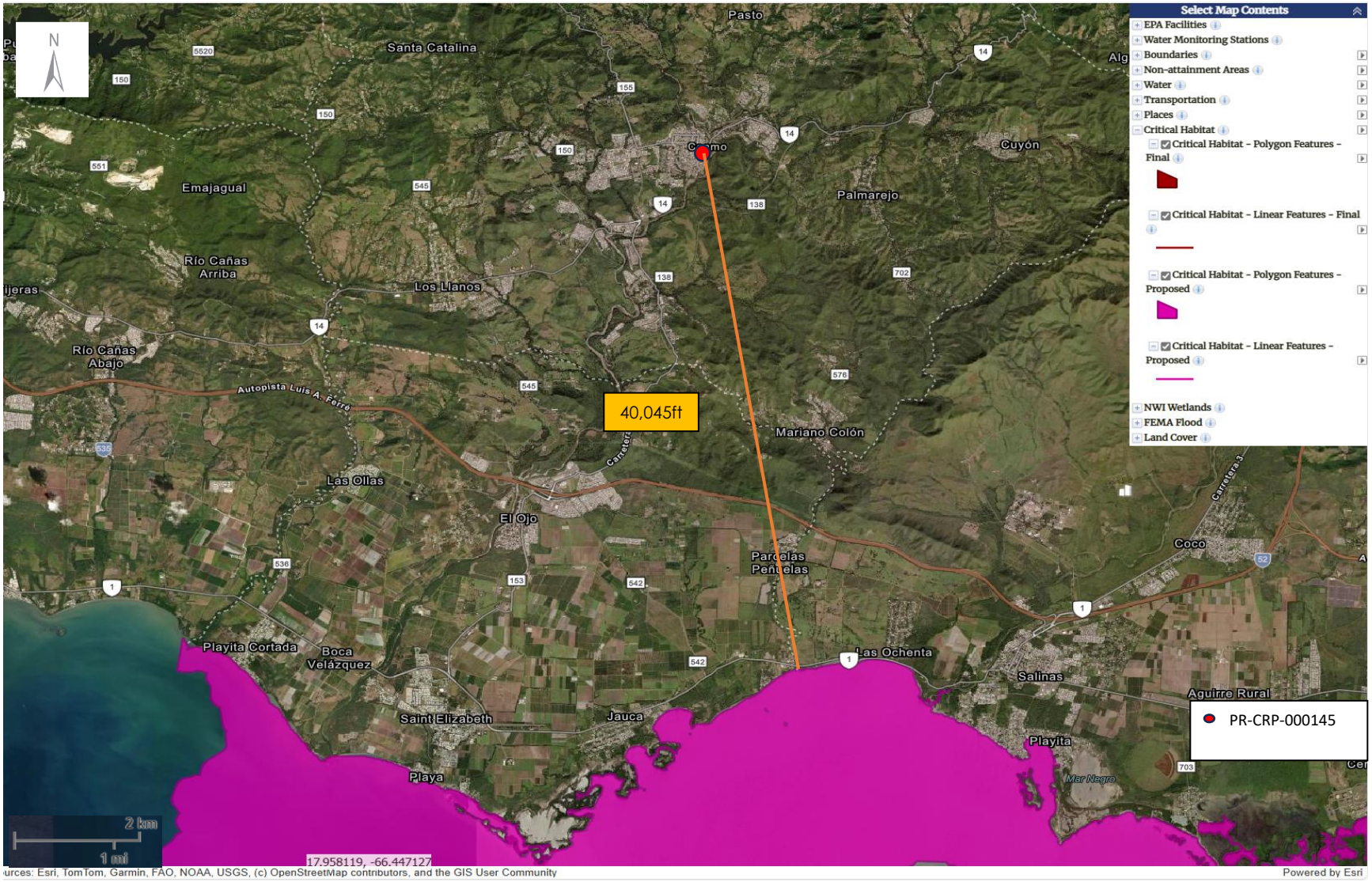
Endangered Species

# Critical Habitat Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: EPA NEPAssist (Spatial Reference: GRS80), accessed at URL https://nepassisttool.epa.gov/nepassist/nepamap.aspx

Prepared by ICF

Date: 08/20/2024

Applicant ID: PR-CRP-000145
Street Address: Florencio Santiago 124 Street with Dr. Barbosa
Municipality: Coamo

RE: No Effect Determination for PR-CRP-000145

## EXECUTIVE SUMMARY

Section 7 of the Endangered Species Act (ESA) mandates that federal agencies ensure the actions that they authorize, fund, or carry out shall not jeopardize the continued existence of federally listed plants and animals or result in the adverse modification or destruction of designated critical habitat. Where their actions may affect resources protected by the ESA, agencies must consult with the Fish and Wildlife Service and/or the National Marine Fisheries Service ("FWS" and "NMFS" or "the Services").

This memo serves to document that the proposed project, PR-CRP-000145, located at Florencio Santiago 124 Street with Dr. Barbosa (Parcel ID# 345-033-046-09-01) was reviewed in accordance with Section 7 of the Endangered Species Act of 1973 (16 USC 1536) as well as the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) by a qualified Biologist, resulting in a 'No Effect' determination.

The goal of the City Revitalization Program is to help shape and implement the future vision of communities that were affected by Hurricanes Irma and María and will support the municipal governments and other eligible organizations to undertake a variety of recovery activities aimed at reinvigorating downtown areas, urban centers, and key community corridors.

### Project Description

The property is located in the historic zone of the urban center of Coamo, in a 447 square meters vacant lot. It is specifically located at the corner of Dr. Barbosa Street (on its west side) and Florencio Santiago Street (on its south side). The project activity will be limited to a previously developed urban property and thus has no effect on any natural habitats or federally protected species. The project site is already impacted and therefore does not support any species' habitat requirements (Please refer to site Photos in Appendix A).

The project scope includes the construction of a three-story building with a commercial space on the first floor and seven housing units with a total of approximately 11,880 square feet of construction and will be built at the lot with the geographical coordinates Latitude: 18.07938503, Longitude: -66.35667973 (see Site Aerial Photo in Appendix A- Figure 1).

There would be ground disturbance for reinforced concrete foundations. Please refer to Architect's Project Description and the Project Description Checklist for Environmental Review Records for Puerto Rico Department of Housing CDBG-DR in Appendix B.

As indicated by the Official Species List obtained from the Information for Planning and Consultation (IPaC) system (Appendix C) and USFWS Critical Habitat data (Appendix A, Figure 2), the proposed project lies within the ranges of the following federally listed species and critical habitats:

| Species | Status |
|---|---|
| Puerto Rican Boa (*Chilabothrus inornatus*) | Endangered |

| Critical Habitat |
|---|
| None. |

## Existing Conditions:

The project area where activities will be taking place consists of approximately 0.23 Acres (9,031 sq. feet) of land located at Florencio Santiago 124 Street with Dr. Barbosa. According to the U.S. Geological Survey National Land Cover Database (NLCD) (Appendix A Figure 3) the project is located in an impacted urban site without water bodies or habitats, nor forests or vegetative cover. A topographic map is included (see Appendix A, Figure 4).

The project is located in Zone X on the FEMA Flood map and ABFE map, panel number 72000C1705H dated 04/19/2005 (see Flood Map Appendix A, Figure 5 and ABFE map Appendix A, Figure 6).

The Coamo river is located approximately 1,046 feet to the East of the project site (see Sole Source Aquifer Map Appendix A Figure 7). The project activities will not occur near a body of water or within a natural or manmade wetlands (see wetlands map Appendix A, Figure 8). No direct or indirect impacts are anticipated as a result of the project activities.

## Effect Determination:

Based on a review of site photos and other information gathered during both the initial site visit on date 01/20/2021, and the last one on 03/02/2023, none of the species listed above were observed in the vicinity of the proposed project activities and no critical habitat was identified within the proposed project area. Please refer to Appendix B for the site photos.

Having carefully analyzed the project site and the information available, including the IPaC species list and available Maps, critical habitat data, nature of the project, previous site disturbance, and scope of project activities, the following effect determinations have been made:

| Species | Effect Determination | Conservation Measures to be Implemented (if needed) |
|---|---|---|
| Puerto Rican Boa (*Chilabothrus inornatus*) | No Effect | None required |

## SPECIES ANALYSIS

### Puerto Rican Boa *(Chilabothrus inornatus)*

Considered to be a habitat generalist, the Puerto Rican Boa tolerates a wide variety of terrestrial and arboreal habitats, including rocky areas, haystack hill, trees, and branches, rotting stumps, caves, plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges (see Appendix D for citations). The IPaC Determination Key (Dkey) for the Puerto Rican Boa, dated (07/30/2024), was used to evaluate the potential impacts to federally listed species from this project. Based on the Dkey responses, it was determined that the proposed project will have 'No Effect' on the Puerto Rican Boa (Appendix C).

If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.

Senior Env. Specialist

September 11, 2024

Date

## APPENDICES:

Appendix A:

Figure 1. AERIAL PHOTO SITE- Pisos DE Coamo
Figure 2. USFWS Critical Habitat Map- Pisos de Coamo
Figure 3. U.S. Geological Survey National Land Cover Database (NLCD)- Pisos de Coamo
Figure 4. Topographic Map
Figure 5. FEMA FIRMette -Pisos de Coamo
Figure 6. ABFE FEMA Map - Pisos de Coamo
Figure 7. Sole Source Aquifer Map - Pisos de Coamo
Figure 8. Wetlands Map- Pisos de Coamo

Appendix B:

1- Architects Description CDBG-DR Architectural Feasibility- Pisos de Coamo
2- Project Description Checklist for Environmental Review Records PR DOH CDBG-DR- Pisos de Coamo.
3- Project Site Photos -First Visit 2021
4- Project Site Photo Last Visit 2023- Arq. N. Medina.

Appendix C:

1- 1-IPaC Explore Location resources- Pisos de Coamo

Appendix A

Figure 1. AERIAL PHOTO SITE- Pisos DE Coamo
Figure 2. USFWS Critical Habitat Map- Pisos de Coamo
Figure 3. U.S. Geological Survey National Land Cover Database (NLCD)- Pisos de Coamo
Figure 4. Topographic Map
Figure 5. FEMA FIRMette -Pisos de Coamo
Figure 6. ABFE FEMA Map - Pisos de Coamo
Figure 7. Sole Source Aquifer Map - Pisos de Coamo
Figure 8. Wetlands Map- Pisos de Coamo

Figue #1: Aerial Photo: PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26

Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR

Project Coordinates: Lat: 18.07938503, Lon: -66.35667973

**Figure #2**

# NMFS ESA Critical Habitat Mapper

8/8/2024, 14:57:00

1:2,257

0 0.02 0.04 0.07 mi

0 0.03 0.06 0.11 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, NOAA National Marine Fisheries Service, Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS

**Critical Habitats Map: PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26**

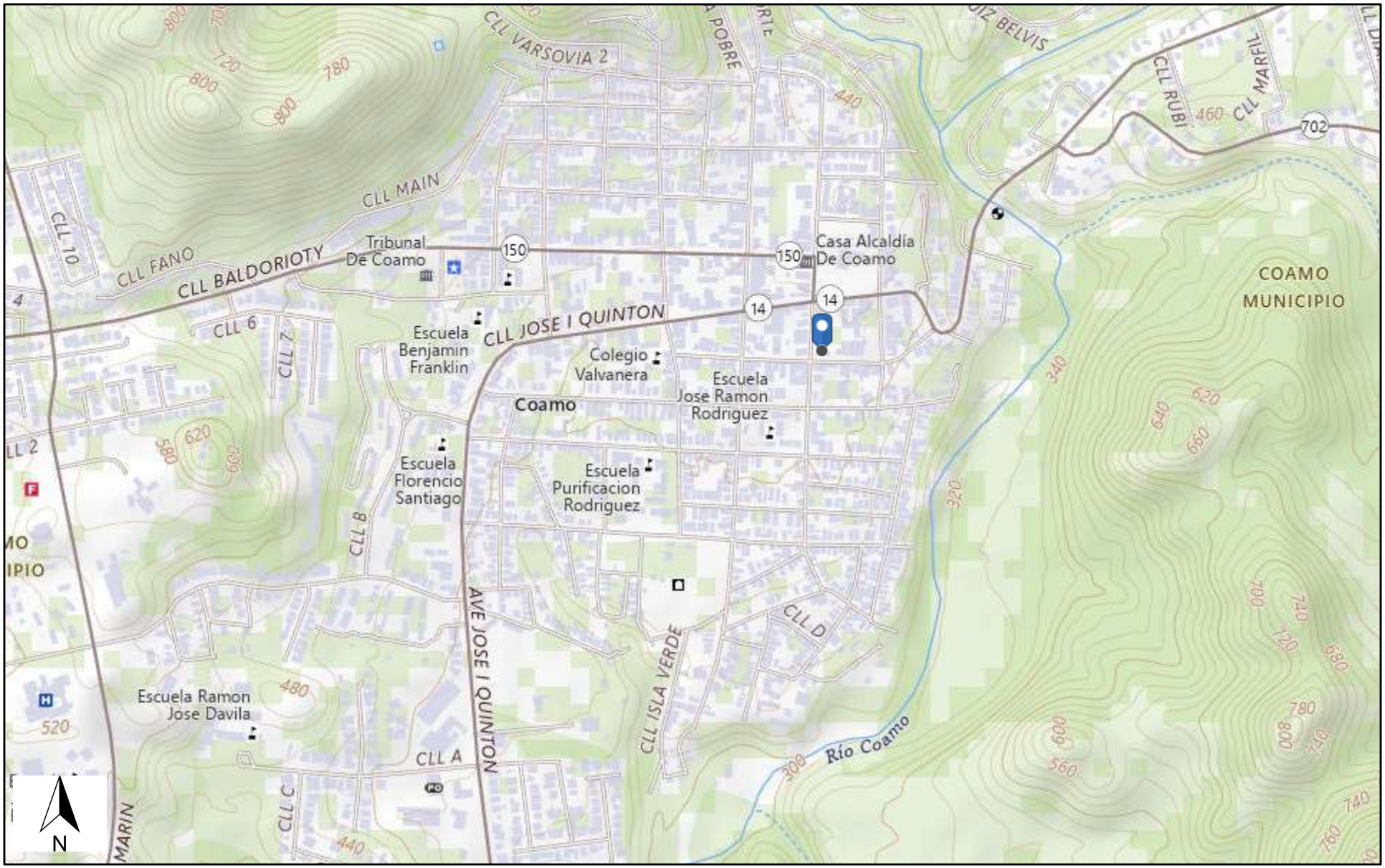
**Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR**
**Project Coordinates: Lat: 18.07938503, Lon: -66.35667973**

NOAA Fisheries

NOAA National Marine Fisheries Service | National Marine Fisheries Service | Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS |

**Appendix A- Figure #3**

# The National Map Advanced Viewer




26/8/2024, 8:17:27

**U.S. Geological Survey National Land Cover Database (NLCD) Map: PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26**

**Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR**

**Project Coordinates: Lat: 18.07938503, Lon: -66.35667973**

1:9,028

0 0.05 0.1 0.2 mi

0 0.1 0.2 0.4 km

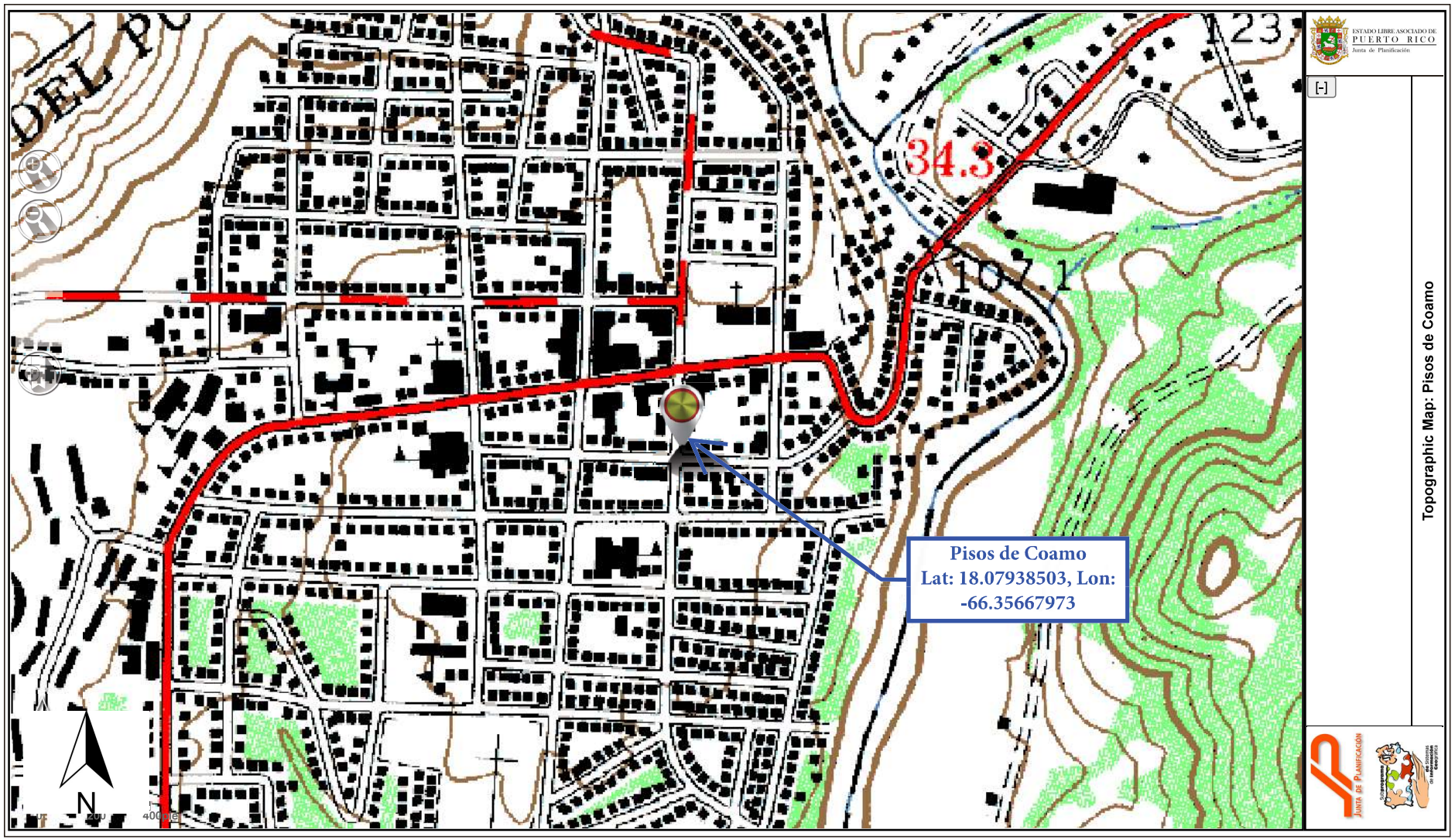
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography

USGS

2021 USGS

**Figure #4**





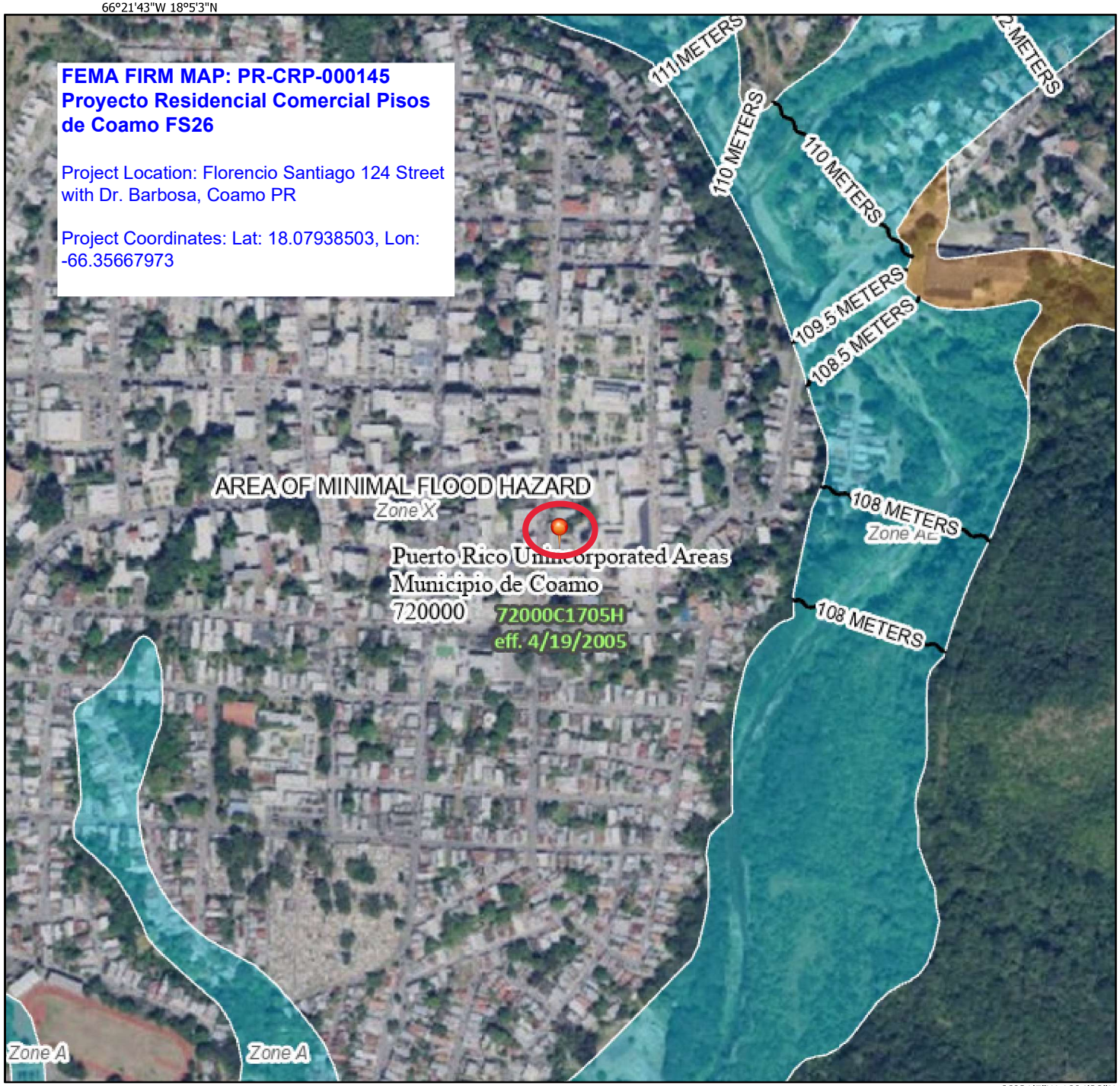

**Topographic Map: PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26**
**Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR**
**Project Coordinates: Lat: 18.07938503, Lon: -66.35667973**

**Figure #5**

# National Flood Hazard Layer FIRMette

FEMA

66°21'43"W 18°5'3"N




66°21'5"W 18°4'28"N

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

1:6,000

*Basemap Imagery Source: USGS National Map 2023*

## Legend

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

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

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

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

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

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

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

N

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

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 8/26/2024 at 9:21 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**

# Mapa Niveles de Inundación Base Recomendados

26/8/2024, 9:54:25

Municipios Limite

Zona Inundable

A

AE

AO

A Costera

VE

X (0.2% Probabilidad Anual de Inundación)

1:2,257

0 0.02 0.04 0.07 mi

0 0.03 0.06 0.11 km

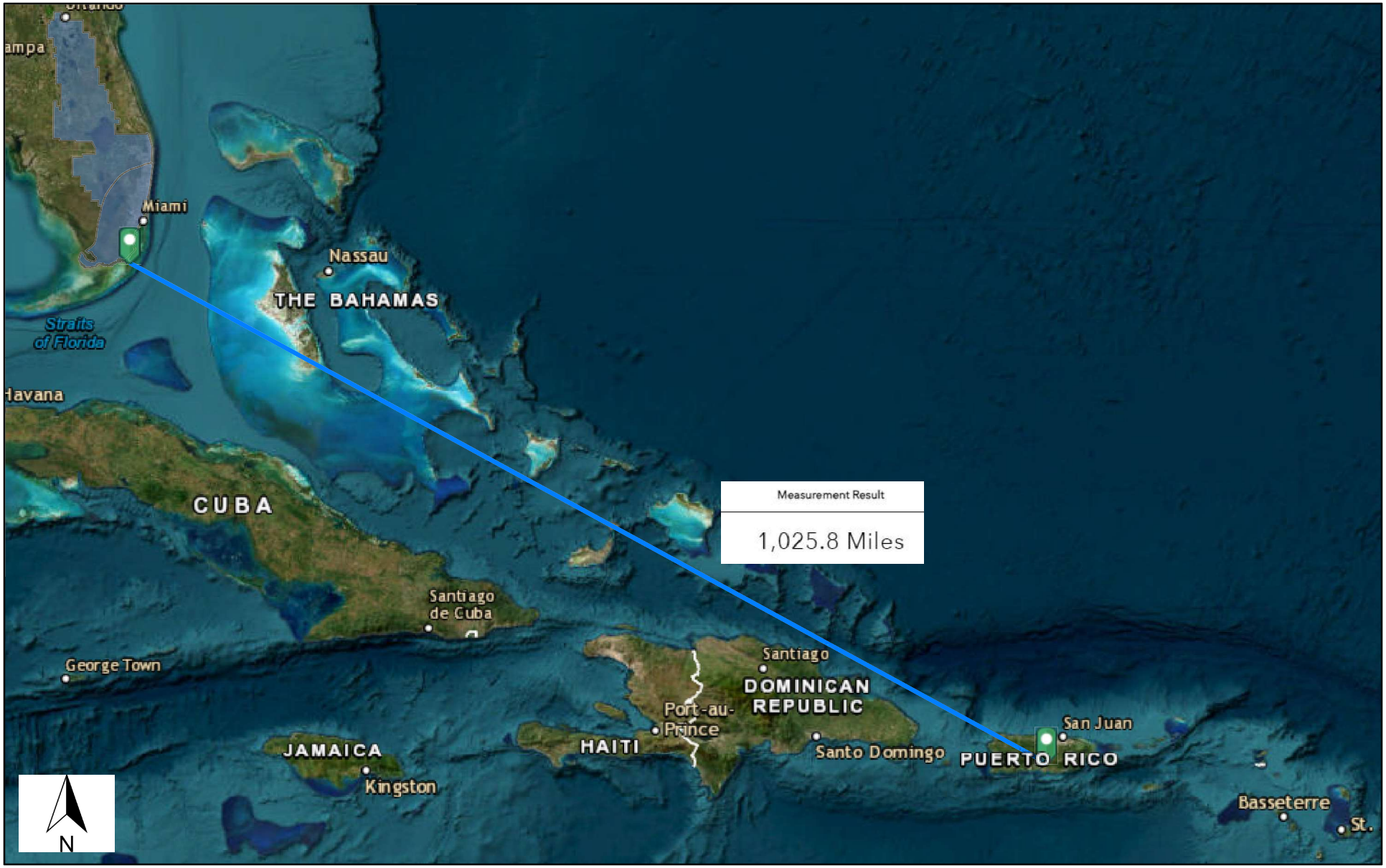
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, PRPB; FEMA, Esri Community Maps Contributors, Esri, TomTom, Garmin,

Junta de Planificación, FEMA

PRPB; FEMA | Junta de Planificación. Programa de Sistema de Información Geográfica | Esri Community Maps Contributors, Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census Bureau, USFWS |

**Figure #7**

# Sole Source Aquifers Map




8/30/2024, 9:39:29 AM

Sole_Source_Aquifers

1:9,244,649

0 70 140 280 mi

0 115 230 460 km

Esri, HERE, Garmin, Earthstar Geographics

**Sole Source Aquifers Map:**
**PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26**
**Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR**
**Project Coordinates: Lat: 18.07938503, Lon: -66.35667973**

U.S. Environmental Protection Agency

U.S. Fish and Wildlife Service
National Wetlands Inventory

# Wetlands Map Pisos de Coamo

## Figure #8

**Wetlands Map:**
**PR-CRP-000145 Proyecto Residencial Comercial Pisos de Coamo FS26**
Project Location: Florencio Santiago 124 Street with Dr. Barbosa, Coamo PR
Project Coordinates: Lat: 18.07938503, Lon: -66.35667973

August 30, 2024

**Wetlands**

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

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

Appendix B

1- Architects Description CDBG-DR Architectural Feasibility- Pisos de Coamo
2- Project Description Checklist for Environmental Review Records PR DOH CDBG-DR- Pisos de Coamo.
3- Project Site Photos -First Visit 2021
4- Project Site Photo Last Visit 2023- Arq. N. Medina.

SANCHEZ ARANA ARCHITECTS
VILLA CAPARRA CALLE J #27 GUAYNABO PUERTO RICO 00977 787-235-3770 iliasanchezarana@yahoo.com

January 4, 2021

Mr. Elvin E. Colón Correa
Director
Office of Economic Development and Projects
Municipality of Coamo
Puerto Rico

**ARCHITECTURAL FEASIBILITY OF PISOS DE COAMO**
**#26 Florencio Santiago Street, Pueblo Ward, Coamo, Puerto Rico**

## INTRODUCTION

**Pisos de Coamo** is one of the strategic projects of the **Revitalization Plan of the Coamo Urban Center**, which has an emphasis on the economic revitalization, the sustainable development and the repopulation of the urban center, especially with the present demand for secure and accessible housing after Hurricanes Irma and María.

## PROJECT DESCRIPTION

**Pisos de Coamo** is located in the historic zone of the urban center, in a **447 square meters vacant lot**. It is specifically located at the **corner of Dr. Barbosa Street (on its west side) and Florencio Santiago Street (on its south side)**. The project proposes the construction of a **three story building with a commercial space on the first floor and seven housing units** with a total of approximately **11,880 square feet of construction**. The detailed description of the proposed building follows.

### First Floor (4,810 sq. ft. total)

*Commercial space*
The first floor has a commercial space for retail or offices, with direct access from the street, with bathrooms and support spaces, of approximately **1,769** sq. ft.

*Main Entrance and lobby for housing units*
This level has the main entrance for the residential apartments, a lobby, area for the mail boxes and the intercom, stairs, electrical and mechanical room, water tank and pumps room and support spaces, with approximately **854** sq. ft..

*First floor residential apartment with handicapped access*
In this level there is also one residential apartment with two bedrooms, one bathroom, living area, dining area, kitchen with laundry, linen closet and balcony, completely handicapped accessible, of approximately **1,034** sq. ft..

*Patio, trash station and electric generator*
In the first floor there is a patio with location for the electric generator and trash station of approximately **1,153** sq. ft..

**Second Floor (3,535 sq. ft. total)**

*Three residential apartments*
- In this level there is one residential apartment with three bedrooms and two bathrooms, living area, dining area, kitchen with an island, laundry, linen closet, walk-in closet in the master bedroom and balcony of approximately **1,288** sq. ft..
- There is a second residential apartment with two bedrooms and one bathroom, living area, dining area, kitchen with an island, laundry, linen closet and balcony of approximately **1,005** sq. ft..
- There is a third residential apartment with two bedrooms and one bathroom, living area, dining area, kitchen with island, laundry, walk-in closet in the master bedroom and balcony of approximately **821** sq. ft..

*Common area*
- There is also a common area of stairs, floor lobby, electrical, mechanical and maintenance closets with approximately **421** sq. ft..

**Third Floor (3,535 sq. ft. total)**

*Three residential apartments*
- In this level there is one residential apartment with three bedrooms and two bathrooms, living area, dining area, kitchen with an island, laundry, linen closet, walk-in closet in the master bedroom and balcony of approximately **1,288** sq. ft..
- There is a second residential apartment with two bedrooms and one bathroom, living area, dining area, kitchen with an island, laundry, linen closet and balcony of approximately **1,005** sq. ft..

- There is a third residential apartment with two bedrooms and one bathroom, living area, dining area, kitchen with island, laundry, walk-in closet in the master bedroom and balcony of approximately **821** sq. ft..

*Common area*

- There is also a common area of stairs, floor lobby, electrical, mechanical and maintenance closets with approximately **421** sq. ft..

**Roof Top**

*Recreational area*

This level will have a recreational area with a gazebo for residents.

## PROJECT GOAL

The undertaking of this project is aimed at the construction of an infill commercial/housing building within the historic zone of the urban center of Coamo, with the purpose of repopulating this zone. This is in response to the Revitalization Plan of the Coamo Urban center and the affordable housing demand, post Hurricanes Irma and María, of the municipality. One of the goals of the mentioned Plan is the in-fill of vacant lots within the fabric of the urban center with compatible mixed used projects such as the one proposed. The architecture of the project responds to the requirements of the historic zone where it located and of the Institute of Puertorrican Culture.

## HISTORIC ZONE/ARCHEOLOGICAL STUDIES

The project site is located within the Historic Zone of Coamo, for that reason the Institute of Puertorrican Culture has asked for an Archeological Study Phase 1-A and 1-B with construction monitoring. The Municipality of Coamo has undertaken such study.

## OWNER/DEVELOPER

The owner of the land and the developer of this project is the Municipal Government of Coamo.

## CONSTRUCTION COST ESTIMATE

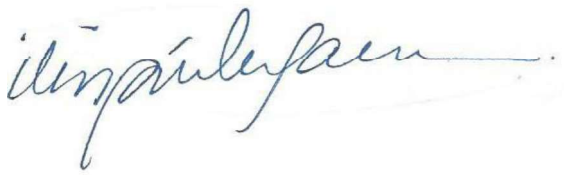
The estimated construction cost of the proposed project is **$830,260.00**

**PERMITS PROCESS**

The proposed project was submitted the JCA for an Environmental Assessment that was approved and then an Environment Impact Declaration was requested and was submitted and is under evaluation. The Institute of Puertorrican Culture, through its Archeological Division, requested a 1-A and 1-B Study that was executed and submitted. Also they requested construction monitoring, and a proposal to those effects was submitted. The archeological construction monitoring will be provided by the Municipality of Coamo. Also, because the project is located in the Coamo's Historic Zone, the Institute of Puertorrican Culture, through its Office of Patrimonial Edifications reviewed Pisos de Coamo and endorsed it. The Municipality of Coamo also endorsed the project. The AEE emitted commentaries that were implemented and submitted. Also the AAA emitted commentaries that were implemented and submitted. The project is to be submitted to the OPGe in this month, pending the final approval of de DEA, for construction permit. We estimate that the notification of the construction permit, once submitted to the OGPe, will take around 2 months to be emitted.

**DOCUMENTS INCLUDED**

Site Photographs, 3D drawings, Construction Plans and Construction Cost Estimate of the proposed project.



Ilia Sánchez Arana, Architect

# Project Description Checklist for Environmental Review Records
# Puerto Rico Department of Housing CDBG-DR

**Mandatory Information** (include multiple parcels, where applicable)

| | |
|---|---|
| Application ID | FS26 |
| Project Name | Proyecto Residencial - Comercial Pisos de Coamo |
| Address<br>(Street, Municipality, zip code) | 26 Florencio Santiago Street, Pueblo Ward, Coamo, Puerto Rico 00769 |
| Cadastre or Parcel ID<br>(if applicable) | 345-033-046-09 |
| Coordinates<br>(Latitude and Longitude) | Lat: 18.07938503, Lon: -66.35667973 |
| Project Funding Amount | Total project development cost is estimated in $1,482,774. The municipality has invested $137,318 in land and soft costs and is requesting $ 1,345,456 in CDBG-DR assistance. |

**General Information:**

**1.** Age of the structure(s) impacted, if applicable

**Not applicable**

**A.** If you are going to apply a PA Allowance for Historic Preservation, the year of construction must be included in the historic preservation section.

**2.** Business type (cattle farm, restaurant, beauty salon)

**Proposed Project: Small three floors new building with 7 housing units and a commercial space in the first floor for offices, retail shops or similar uses.**

**3.** Will there be ground disturbance?

**Yes**

**A.** Excavation, placing asphalt or cement?

**Yes, excavation for reinforced concrete foundations.**

**B.** Type(s) of foundations?

**The project foundations are reinforced concrete conventional individual footings.**

**C.** Location of disturbance on the parcel?

**For exact location of footings excavations in the parcel, please refer in the Construction Documents to page S-1 Foundation Plan, Structural Notes, Sections & Details.**

**4.** If rehabilitation of buildings and improvements

**Not applicable**

**A.** Residential, 1 to 4 units?
**B.** Multifamily residential? (Is Rehab cost >75% of replacement cost after rehab?)
**C.** Non-residential (including commercial, industrial, and public)?
**D.** Changing size or capacity by more than 20%?
a. If there is going to be annexes, expansions, etc. provide dimensions of said construction and of existing building to document compliance with the 20% requirement.

**5.** Former land use and proposed land use (change in land use?) Explain in detail.

**The former use of the land was a parking lot.**
**The proposed land use is a small new 3 floors building with a commercial space in the first floor and 7 housing units distributed as follows:**
**1 two bedroom unit with handicapped accessibility in the first floor**
**1 three bedrooms unit in the second floor**
**2 two bedrooms units in the second floor**
**1 three bedrooms unit in the third floor**
**2 two bedrooms units in the third floor**

**6.** Acreage (for large parcels)

**N/A**

**What is the Action?**

**1.** Soft costs (rental assistance, supportive services, operating costs, non-affixed equipment, down payment assistance, pre-development costs)

a) Rental assistance, supportive services, operating costs, non-affixed equipment, down payment assistance: Not determined at this time. Housing units are for sale.
b) Initial soft costs paid by the municipality, per project budget $60,250.

**2.** Acquisition (of land or fixed structures)

**A.** Purpose of acquisition (residential use, agricultural use, type of agricultural activities to be carried, etc.)

**The purpose of the acquisition is for residential/commercial use.**

**B.** Are there future intentions to do construction?

**Yes, the intentions are to build a small new three story building with 7 housing units and a commercial space on the first floor.**

**C.** Demolition of structures

**Yes, there will be the demolition of one small metallic roof with metallic columns and of a very small deteriorated concrete structure, that were part of the previous parking lot.**

**3.** Purchases

**A.** Equipment

**Not applicable**

**a.** Non-affixed (tractors, trucks, boats, Hay bales)
**b.** Storage location for non-affixed equipment (specific structure, post-and-beam kind of shelter, where on the farm/parcel). If a specific structure will be used as storage, add coordinates, or identify said structure in aerial imagery.
**c.** Affixed to the structure (requires carpentry, plumbing or electrical, drilling or screw driving to install)
**d.** Is the equipment new or replacement? Will it need a new electrical, gas or water connection?

**B.** Inventory (seeds, fertilizer, insecticide, cattle)

**Not applicable**

**a.** For kitchen appliances, are there existing gas and electrical and plumbing hookups (photos required to verify existing hookups)?
**b.** Irrigation equipment (ground disturbance?)

**C.** Rehabilitation/Renovation/Repair/Improvement

**Not applicable**

**a.** Buildings or structures or fences?
**b.** Internal or external?
**c.** Carpentry, electrical or plumbing?
**d.** Will it increase the size or capacity >20%?

**D.** Construction

**Yes**

**a.** Structures/buildings

**Yes, one three story building for housing and a commercial space will be built.**

**b.** Concrete slabs

**Yes**

**c.** Fences

**Yes**

**d.** Live stock pens

**No**

**e.** Roads

**No**

**f.** Greenhouses

**No**

**g.** Drilling water wells

**No**

**h.** Septic tanks

**No**

**Common themes and the information needed to provide in project description**

**1.** Installing solar panels

**No solar panels will be installed.**

**A.** Where? It would be great to add pictures and coordinates as supporting documents.
**B.** If on ground, will there be ground disturbance?
**C.** If placed on the structure, are they visible from the street?

**2.** Purchasing generators

**Yes**

**A.** Maker and model or a photograph is needed.

**A Onan #DGHCB Generator is specified or similar approved. The detail specifications are included in the construction documents.**

**B.** Specify kW of generator. If>10hp (>7.5kW), indicate that it requires permit.

**The generator will have a capacity of 35 KW and it requires permit.**

**C.** Will a transfer panel switch need to be installed on the structure? Is a transfer panel switch already installed? (If so, provide pictures)

**A new transfer panel switch will be installed. No transfer panel switch exists in the lot.**

**D.** Where will it be installed?

**It will be installed in the service patio.**

**E.** Will a concrete pad be installed?

**Yes, a concrete pad will constructed.**

**3.** Air conditioning units (Window unit? Wall unit? BTU? Central HVAC?)

**No air conditioning units will be installed, although rough-in facilities are provided for future air conditioning installations.**

**4.** Placing a cistern (will there be ground disturbance like concrete pad? Capacity?)

**Yes, a reinforced concrete cistern will be constructed underground with a capacity of 2,074 gallons.**

**5.** Greenhouses

**No greenhouses will be constructed.**

**A.** Even when the structure is made of tubes, how are the tubes going to be anchored? Will it be necessary to make a hole and fill or pour cement?

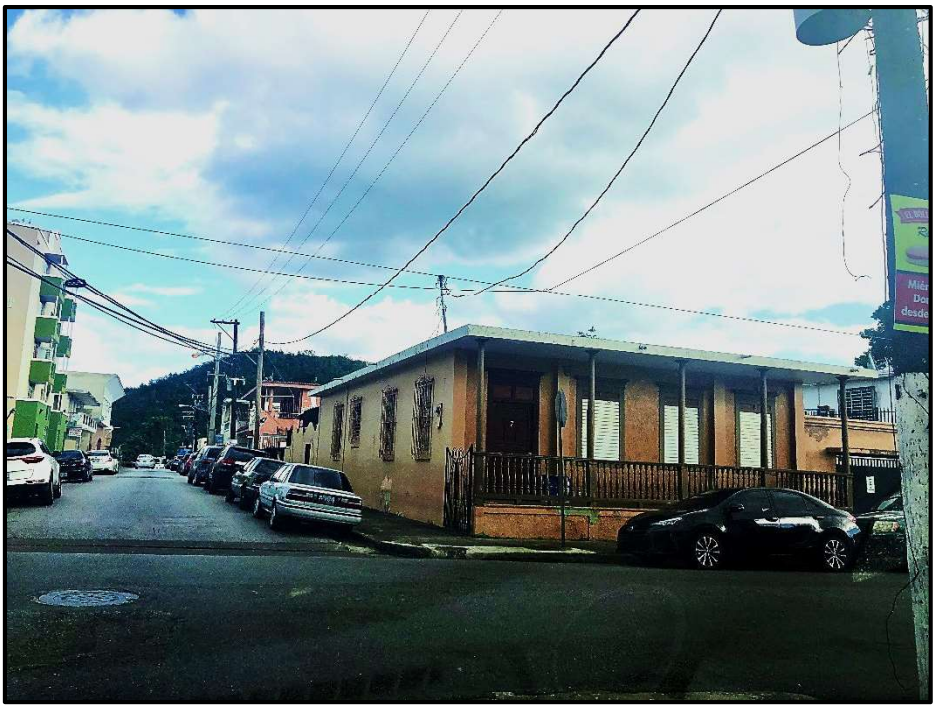
**6.** Fences

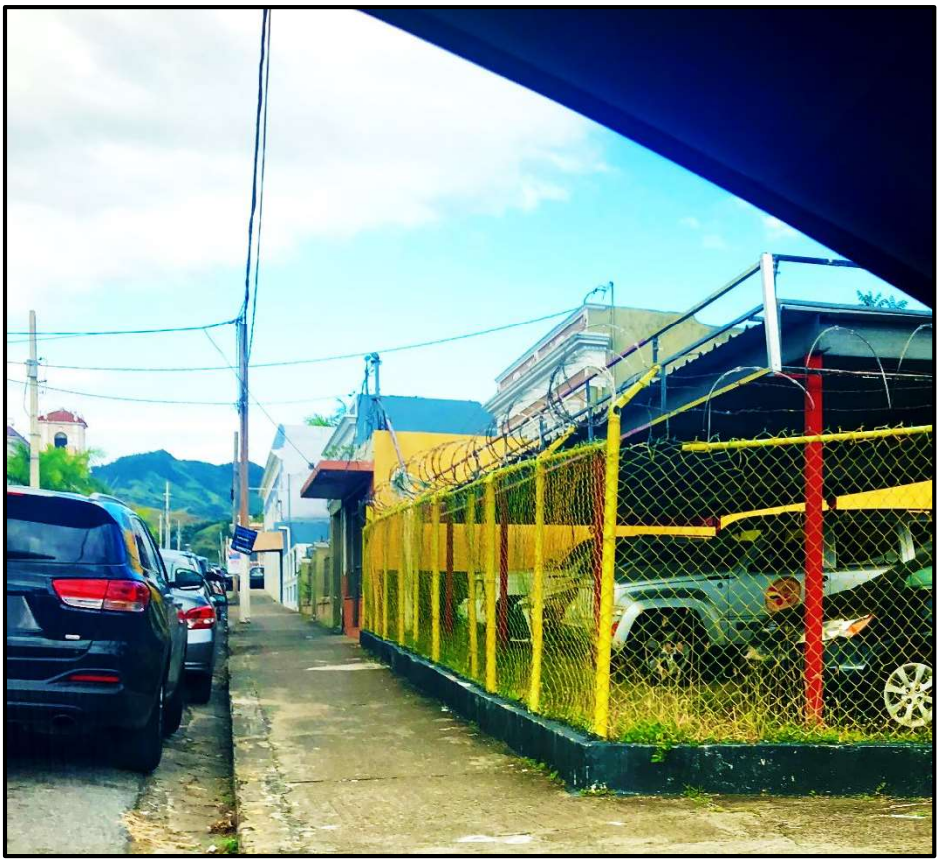
**Concrete fences will be constructed on the north and east property limits.**

**A.** Will they be concrete or wood or wire? If it is a replacement, will it be necessary to remove the elements that are under the ground or make new holes in the ground?

**The fences will be reinforced concrete fences. The fences are replacing old chain link fences that will be removed along with their underground elements and new reinforced concrete footings will be constructed underground for the new fences.**

# PROJECT LOCATION PHOTOS





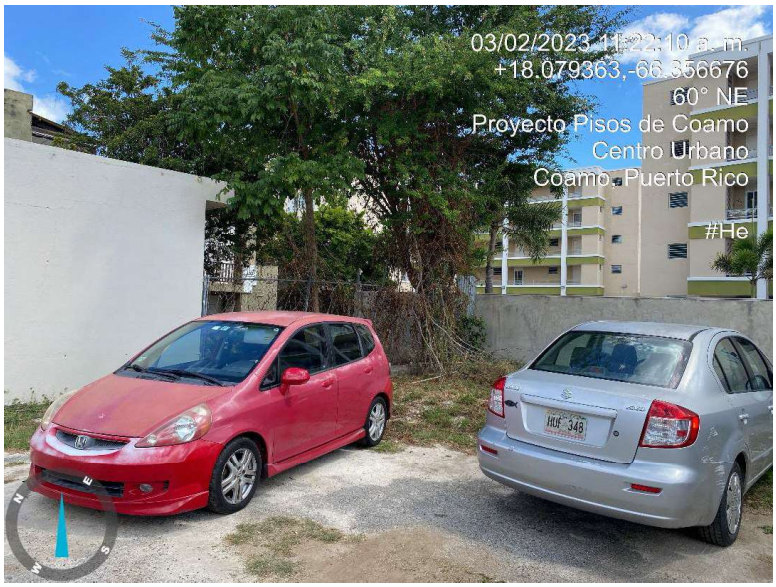
PLAZA APARTMENT

## Photograph Key

| | |
|---|---|
| **Photo #:01** | **Description (include direction):** |
| **Date: March 2, 2023.** | **Station 1- Please refer to Station' Diagram on Page 32. Project Parcel North view- across the street.** |

| | |
|---|---|
| **Photo #:02** | **Description (include direction):** |
| **Date: March 2, 2023.** | **Station 2- Please refer to Station' Diagram on Page 32. Project Parcel North view.** |

| Photo #:03<br>Date: March 2, 2023. | Description (include direction):<br>Station 2- Please refer to Station' Diagram on Page 32.<br>Project Parcel North view. |
|---|---|



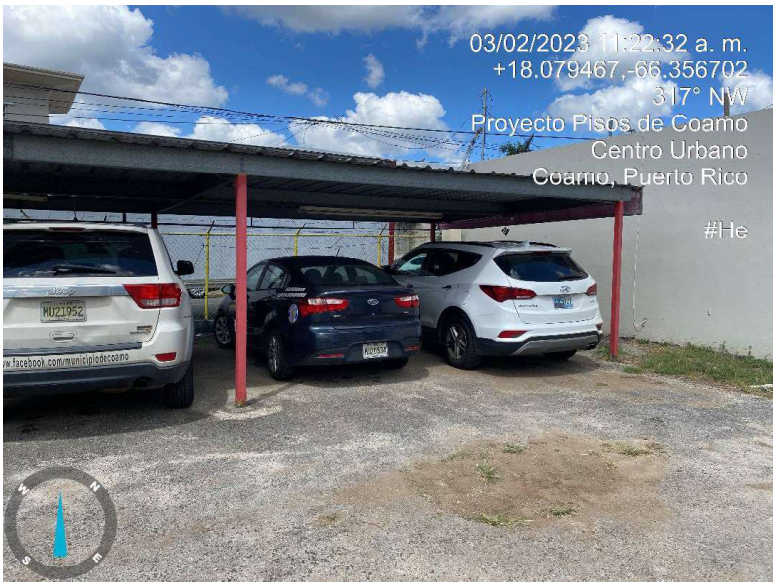

| Photo #:04<br>Date: March 2, 2023. | Description (include direction):<br>Station 2- Please refer to Station' Diagram on Page 32.<br>Project Parcel North- North East view. |
|---|---|

| | |
|---|---|
| **Photo #:05**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 2- Please refer to Station' Diagram on Page 32.**<br>**Project Parcel East view.** |

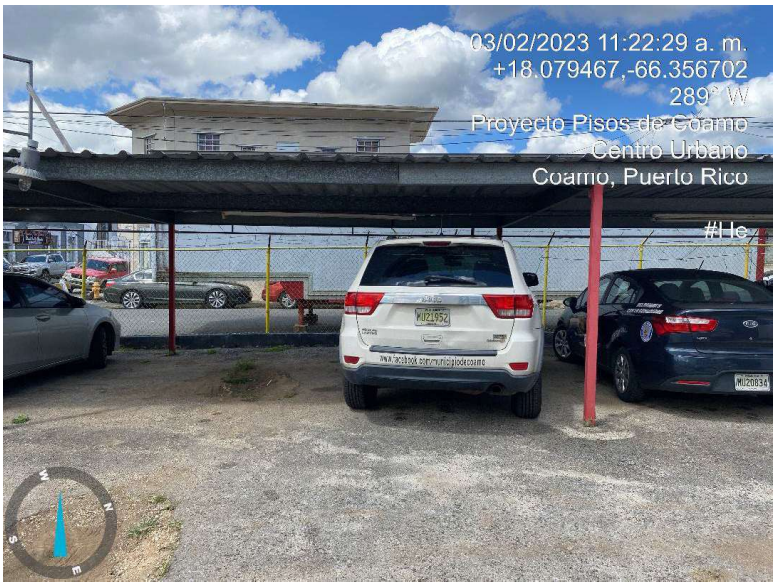
| | |
|---|---|
| **Photo #:06**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 2- Please refer to Photographs' Stations Diagram on Page 32.**<br>**Project Parcel South East View** |

| Photo #:07<br>Date: March 2, 2023. | Description (include direction):<br>Station 2- Please refer to Photographs' Stations Diagram on Page 32.<br>Project Parcel South view. |
|---|---|

| Photo #:08<br>Date: March 2, 2023. | Description (include direction): Station 2- Please refer to Photographs' Stations Diagram on Page 32.<br>Project Parcel South West View |
|---|---|




| | |
|---|---|
| **Photo #:09**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 2- Please refer to Photographs' Stations Diagram on Page 32. Project Parcel North West view.** |




| | |
|---|---|
| **Photo #:10**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 2- Please refer to Photographs' Stations Diagram on Page 32. Project Parcel West View** |

| | |
|---|---|
| **Photo #:11**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 2- Please refer to Station' Diagram on Page 32.**<br>**Project Parcel South view.** |

| | |
|---|---|
| **Photo #:12**<br>**Date: March 2, 2023.** | **Description (include direction):**<br>**Station 3- Please refer to Stations' Diagram on Page 26.**<br>**Project Parcel North East View** |

| | |
|---|---|
| **Photo #:13** | **Description (include direction):**<br>**Station 4- Please refer to Stations' Diagram on Page 26.**<br>**Project Parcel North view.** |
| **Date: March 2, 2023.** | |

Appendix C

1-IPaC Explore Location resources- Pisos de Coamo

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

# IPaC resource list

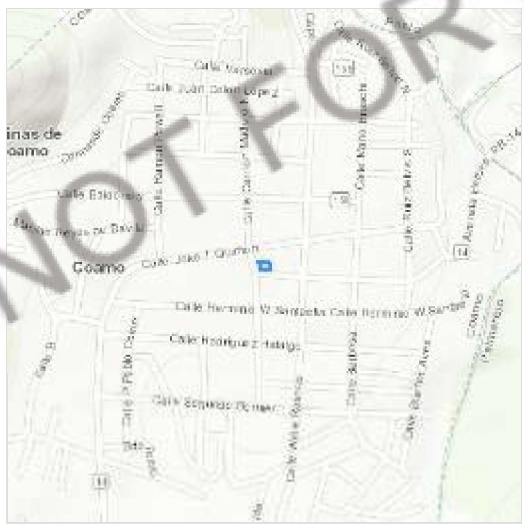
This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list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

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

NOT FOR CONSULTATION

## Location

Coamo County, Puerto Rico




## Local office

Caribbean Ecological Services Field Office

(939) 320-3135
(787) 851-7440
CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

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

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

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

---

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

NOT FOR CONSULTATION

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 Chilabothrus inornatus<br>Wherever found<br>No critical habitat has been designated for this species.<br>https://ecos.fws.gov/ecp/species/6628 | Endangered |

# Critical habitats

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

There are no critical habitats at this location.

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

NOT FOR CONSULTATION

# Bald & Golden Eagles

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

Additional information can be found using the following links:

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

- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

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

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

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

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

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

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

**What if I have eagles on my list?**

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

NOT FOR CONSULTATION

# Migratory birds

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

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

1. The Migratory Birds Treaty Act of 1918.

2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

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

The data in this location indicates there are no migratory birds of conservation concern expected to occur in this area.

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

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**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.

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

# Facilities

## National Wildlife Refuge lands

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

### There are no refuge lands at this location.

# Fish hatcheries

There are no fish hatcheries at this location.

# Wetlands in the National Wetlands Inventory (NWI)

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

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

## This location did not intersect any wetlands mapped by NWI.

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

NOT FOR CONSULTATION

### 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 tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

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

NOT FOR CONSULTATION

# Attachment 8

# Explosive and Flammable Hazards

D'GROUP DEVELOPMENT VENTURE, LLC
PO Box 1726, Coamo, Puerto Rico 00769 office@dgroupdv.com, jdiaz@jdiazassoc.com

16 de septiembre de 2025

Honorable Juan Carlos García Padilla
Alcalde
Municipio de Coamo

**Generador Eléctrico y verja de colindancia oeste de Egida Plaza Apartments, ubicado en la Calle José I. Quintón #19, Coamo, Puerto Rico**

Estimado Alcalde García Padilla:

Según solicitado, le informo que el generador eléctrico instalado en el proyecto en referencia, del cual fui Ingeniero Diseñador, ubicado en el patio oeste del mismo, tiene 125 KW de capacidad y posee un tanque superficial integrado en su base de 400 galones de diésel. Dicho tanque tiene una cubierta con resistencia al fuego y la planta tiene una cubierta para amortiguar su sonido. Dicho generador cumple con todas las leyes y reglamentos vigentes en Puerto Rico, el NFPA 20 no le aplica porque el Centro Urbano de Coamo tiene excelente presión de agua, cumple con el NFPA 37 en diseño y localización y su mantenimiento cumple con el NFPA 110.

Tomando el centro de mencionado generador como eje y dibujando un radio de 32.92 pies, obtenido dicho radio de la tabla ASD de HUD (Ver anejo 1), y ubicando en el solar colindante en el lado oeste de la Egida el dibujo del proyecto municipal propuesto, Pisos de Coamo, podemos observar que el edificio propuesto de Pisos de Coamo cae fuera del mencionado radio (Ver anejo 2). Hay un espacio en el patio Este del Edificio Pisos de Coamo, que contiene unos bancos para disfrute de los residentes del proyecto. Este espacio queda dentro del radio de 32.92 pies, no obstante, la pared de hormigón en la colindancia constituye una barrera contra la posible propagación del fuego.

En adición, la verja de la colindancia oeste de la Egida Plaza Apartments es de hormigón armado y mide 6'-6" de alto y tiene un grosor de 8", la cual, según el International Building Code en su Tabla 722.2.1.1, tiene una clasificación de más de 4 horas de resistencia al fuego. (Ver anejo 3).

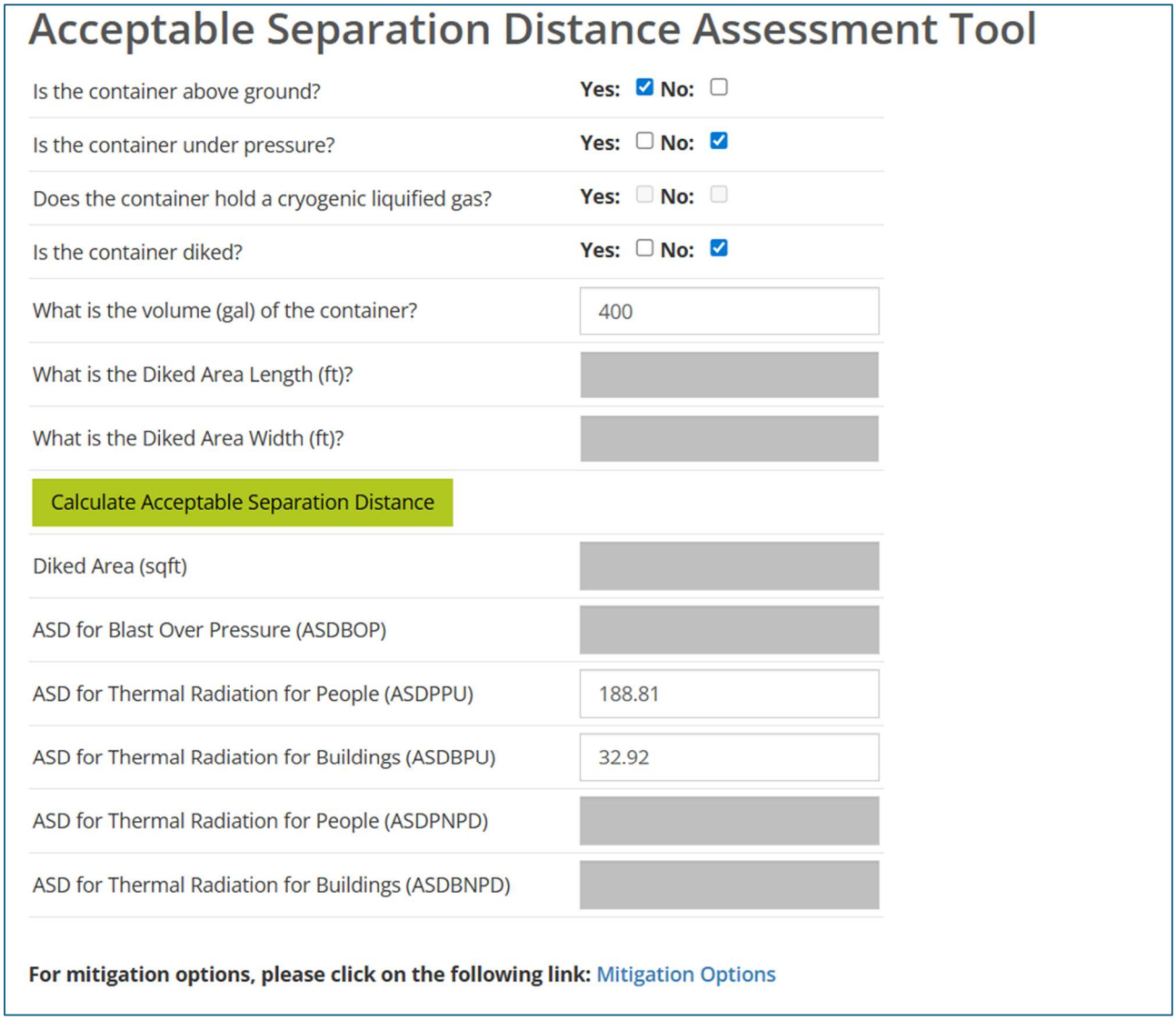
Espero esta información le sea de utilidad. Quedo a sus órdenes.

Atentamente,

JOSE DIAZ SOLIVAN, PE, MECE Lic. 6583
Presidente

## Anejo 1 – ASD Table

https://www.hudexchange.info/programs/environmental-review/asd-calculator/



# Acceptable Separation Distance Assessment Tool

| | |
|---|---|
| Is the container above ground? | **Yes:** ☑ **No:** ☐ |
| Is the container under pressure? | **Yes:** ☐ **No:** ☑ |
| Does the container hold a cryogenic liquified gas? | **Yes:** ☐ **No:** ☐ |
| Is the container diked? | **Yes:** ☐ **No:** ☑ |
| What is the volume (gal) of the container? | 400 |
| What is the Diked Area Length (ft)? | |
| What is the Diked Area Width (ft)? | |

Calculate Acceptable Separation Distance

| | |
|---|---|
| Diked Area (sqft) | |
| ASD for Blast Over Pressure (ASDBOP) | |
| ASD for Thermal Radiation for People (ASDPPU) | 188.81 |
| ASD for Thermal Radiation for Buildings (ASDBPU) | 32.92 |
| ASD for Thermal Radiation for People (ASDPNPD) | |
| ASD for Thermal Radiation for Buildings (ASDBNPD) | |

**For mitigation options, please click on the following link:** Mitigation Options

# Anejo 2 – Drawings

## ARCHITECTURAL LEGENGD

- A — AXIS BUBBLE
- REINFORCED CONCRETE WALL
- CONCRETE BLOCKS WALL
- PRECAST CONCRETE WALL
- GYBSUM BOARD PARTITION
- PROJECT LIMIT
- INDICATES DETAIL NUMBER / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL ELEVATION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- W.S. — WALL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- INTERIOR ELEVATION
- 4 — EQUIPMENT IDENTIFICATION
- 4 — REVISIONS (WHEN INDICATED IN DRWS.)
- 2 — INDICATES DOOR DESIGNATION AS SCHEDULE NOTE: HAND OF DOOR DETERMINED BY PLAN DRAWINGS OR MIRROR IMAGE IF APPLIES.
- A — WINDOW DESIGNATION AS SCHEDULE
- N.I.C. — NOT INCLUDED IN CONTRACT
- A.F.F. — ABOVE FINISHED FLOOR
- CH. — CEILING HEIGHT
- F.D. — FIELD DIMENSIONS
- F.F.E. — FINISHED FLOOR ELEVATION
- F.F.E. — FINISHED FLOOR ELEVATION
- FINISHED FLOOR ELEVATION
- G–1 / A–5 — GATE DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- R–1 / A–5 — RAILING DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- SF1 — STOREFRONT DESIGNATION AS SCHEDULE

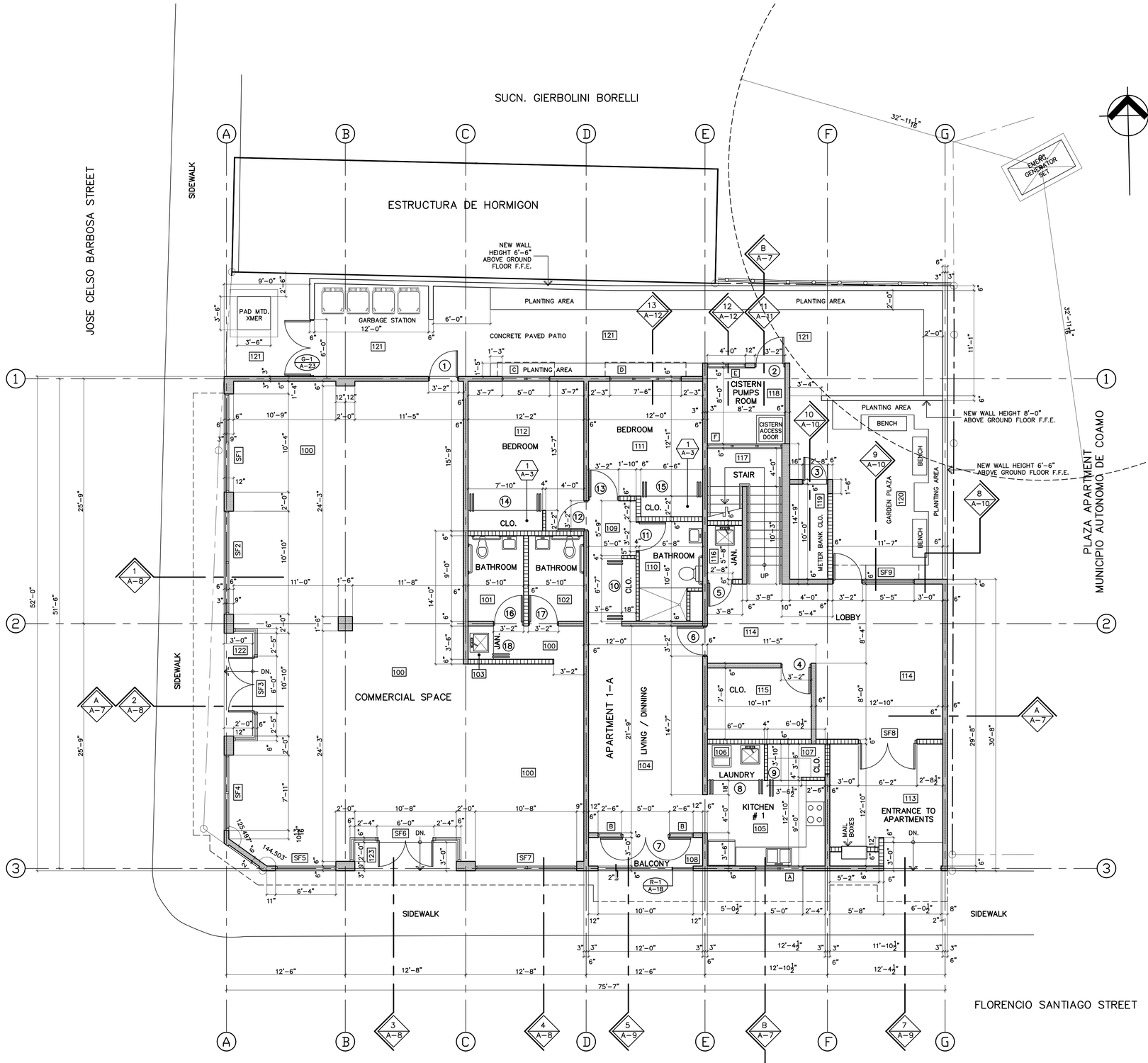
**BENCHES NOTES :**

1. 4' LONG - 15" WIDE SEATS BENCHES WITHOUT BACK SHALL BE EQUALS OR APROVED EQUALS AS WABASH VALLEY DESIGNER SERIE MODEL DS302(T) .

2. BENCHES FINISH COLOR TO BE SELECTED BY THE ARCHITECT.

**MAILBOXES NOTE :**

1. HORIZONTAL MAILBOX - 5 DOORS HIGH UNIT - 10 B DOORS (9 USABLES) FRONT LOADING – PRIVATE ACCESS SHALL BE EQUAL OR APROVED EQUAL AS SALSBURY INDUSTRIES MAILBOX MODEL # 3610, FINISH : ALUMUNUM.




## GROUND FLOOR PLAN

SCALE: 3/16" = 1'–0"


SANCHEZ ARANA ARQUITECTOS
J–26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787–235–3670 lilisanchezarana@yahoo.com 787–390–3788


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

# EDIFICIO DE USO MIXTO ( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


NOTA: Yo, Ilis Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confecciono y/o diseño y/o preparo estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente en Puerto Rico. Además, que he revisado personalmente la obra que se describe en dichos planos y especificaciones y que, a mi mejor conocimiento, no existe condición física, judicial y descriptiva que pueda afectar el título de propiedad o derecho de uso del predio donde ubica la obra o edificación, de los hechos que se hayo producido por desconocimiento o por negligencia pr uso por mí, mis agentes o empleados, y por otras personas con mi conocimiento, no hacen responsable de cualquier acción judicial y demandas que surjan como resultado de la misma.



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DRAWING TITLE: GROUND FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING A-1 |
| DRAWN | |
| DATE 12/07/2019 | |

GENERAL NOTES:

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

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

3. IN CASE OF CONFLICT BETWEEN ARCHITECTS AND CONSULTANTS DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

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

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

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

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

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

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

11. SUBSTITUTIONS, REVISIONS, OR CHANGES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. REFER TO SPECIFICATIONS FOR SPECIFIC PROCEDURES. THE PROJECT INTENDS TO USE AS MUCH OF RECYCLED MATERIALS AND EQUIPMENT AS POSIBLE. MANUFACTURES MODEL NUMBERS AND SPECIFICATIONS ARE FOR COMPARISON PURPOSES. ANY RECYCLED MATERIAL OR EQUIPMENT MUST MEET CITED QUALITY AND STANDARDS ESPECIALLY WITH REGARD TO STRUCTURAL SOUNDNES AND LIFE SAFETY.

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

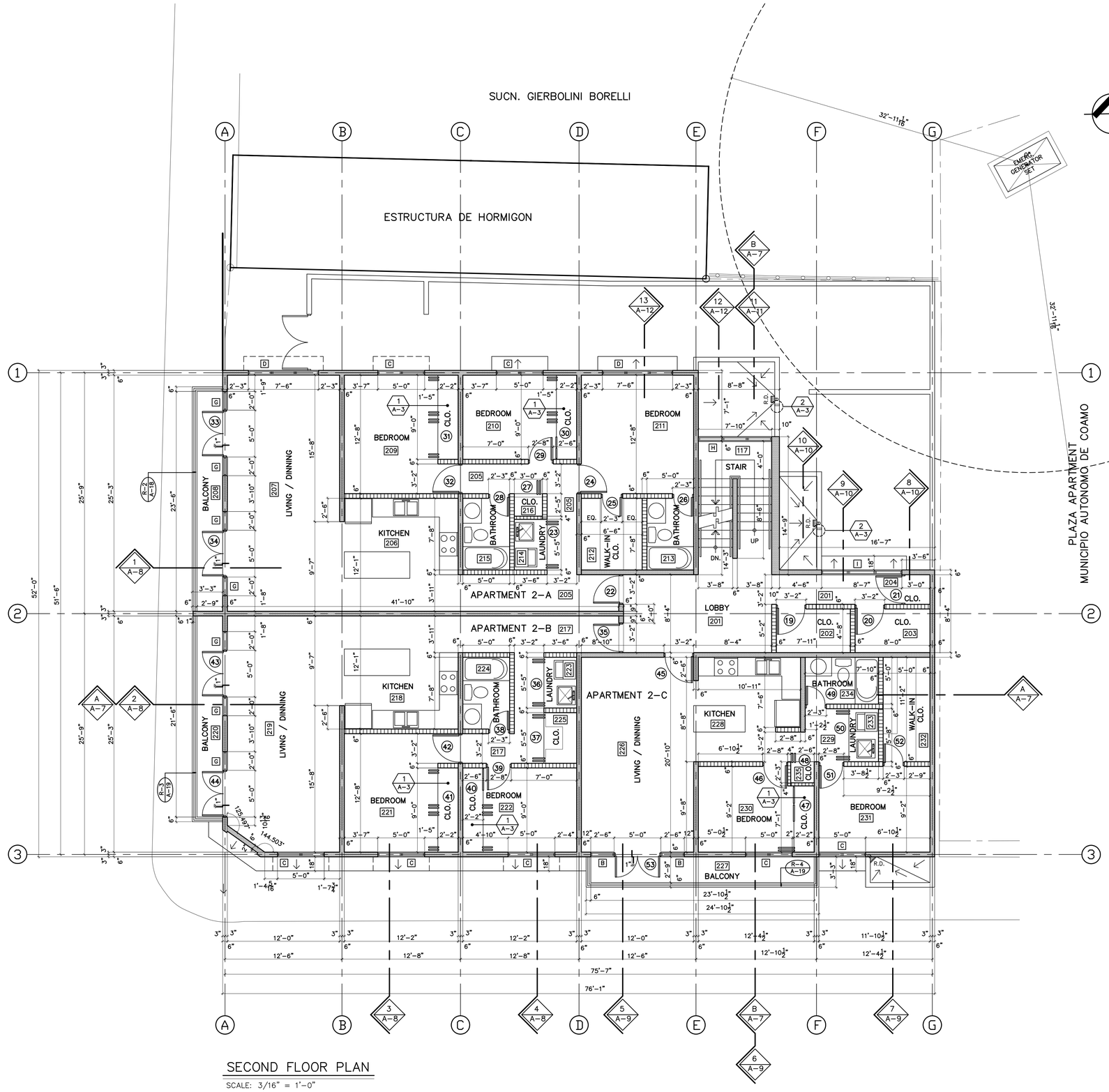
13. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED, AND CONDITIONED PER MFR.'S INSTRUCTIONS. IN CASE OF DIFFERENCES BETWEEN THE MANUFACTURER'S INSTRUCTIONS AND CONTRACT DOCUMENTS, THE GC SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.

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

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

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

18. COMMENCEMENT OF WORK SHALL BE DEEMED AS THE GC'S ACKNOWLEDGMENT OF ALL WORK REQUIRED TO COMPLETE PROJECT IN CONFORMANCE WITH CONTRACT DOCUMENTS AND SCHEDULE.




SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"


SANCHEZ · ARANA · ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3570 lilisanchezarana@yahoo.com 787-390-3788


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

# EDIFICIO DE USO MIXTO
# ( COMERCIO Y VIVIENDA )
## CALLE FLORENCIO SANTIAGO # 26
## BARRIO PUEBLO, COAMO, PUERTO RICO


NOTA:
Yo, Ilis Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que dichos planos y especificaciones cumplen con las disposiciones aplicables de la Ley Núm. 130 de 8 de mayo de 1967, según enmendada, y el Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente, y que no violan derechos de autor o de propiedad intelectual de terceros. Además, certifico que, a mi mejor conocimiento, los planos y especificaciones no violan derechos de autor o de propiedad intelectual de terceros y que no incluyen material alguno cuyo uso no haya sido autorizado por su autor o por la persona que ostente sus derechos. Finalmente, certifico que, a mi mejor conocimiento, no hay reclamación alguna contra mí o contra la corporación para la cual trabajo en relación con la preparación de dichos planos y especificaciones que no haya sido informada a la Oficina de Gerencia de Permisos. Por último, certifico que, a mi mejor conocimiento, me hacen responsable de cualquier acción judicial y administrativa que surja como consecuencia de la preparación, diseño o confección de dichos planos y especificaciones, así como de cualquier daño o perjuicio que surja como consecuencia de la preparación, diseño o confección de dichos planos y especificaciones o de la falsedad de cualquiera de las certificaciones aquí contenidas. Reconozco que puedo ser referido al Tribunal Examinador de Peritos Electricistas, Ingenieros, Arquitectos y Agrimensores por cualquier violación a la Ley Núm. 173 de 12 de agosto de 1988, según enmendada, o a cualquier reglamento promulgado en virtud de la misma, así como por cualquier violación a las disposiciones de la Ley Núm. 76 de 5 de junio de 2000, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido al Departamento de Asuntos del Consumidor por violaciones a la Ley Núm. 5 de 23 de abril de 1973, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina del Contralor de Puerto Rico por violaciones a la Ley Núm. 18 de 30 de octubre de 1975, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Ética Gubernamental por violaciones a la Ley Núm. 1 de 3 de enero de 2012, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 161 de 1 de diciembre de 2009, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 76 de 5 de junio de 2000, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 173 de 12 de agosto de 1988, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 161 de 1 de diciembre de 2009, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 76 de 5 de junio de 2000, según enmendada, o a cualquier reglamento promulgado en virtud de la misma. Reconozco que puedo ser referido a la Oficina de Gerencia de Permisos por violaciones a la Ley Núm. 173 de 12 de agosto de 1988, según enmendada, o a cualquier reglamento promulgado en virtud de la misma.



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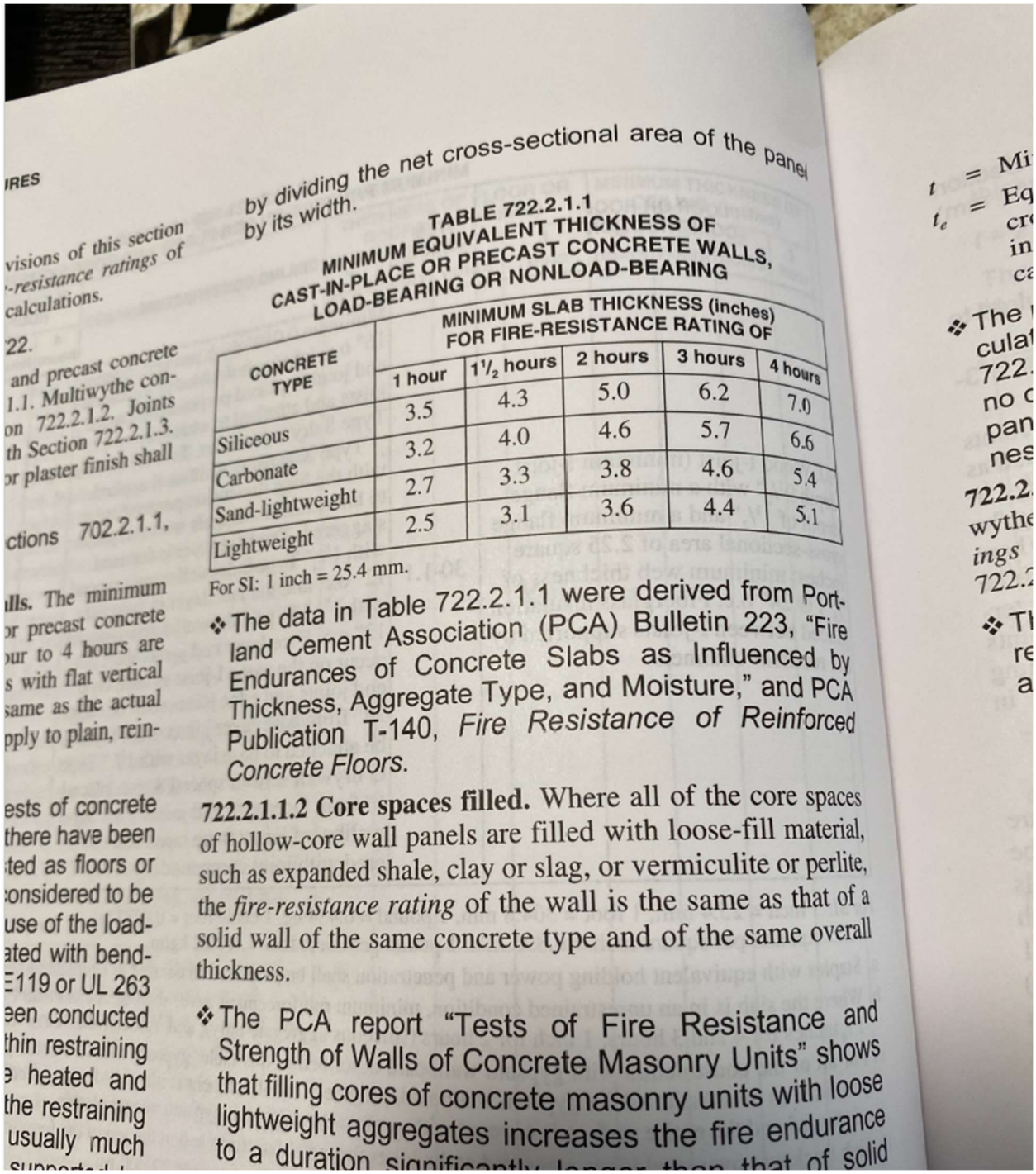
DRAWING TITLE

SECOND FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-2 |
| DATE 7/07/2019 | |

# Anejo 3 – International Building Code – Fire resistance rating



IRES

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**TABLE 722.2.1.1**
**MINIMUM EQUIVALENT THICKNESS OF CAST-IN-PLACE OR PRECAST CONCRETE WALLS, LOAD-BEARING OR NONLOAD-BEARING**

| CONCRETE TYPE | MINIMUM SLAB THICKNESS (inches) FOR FIRE-RESISTANCE RATING OF | | | | |
|---|---|---|---|---|---|
| | 1 hour | 1½ hours | 2 hours | 3 hours | 4 hours |
| Siliceous | 3.5 | 4.3 | 5.0 | 6.2 | 7.0 |
| Carbonate | 3.2 | 4.0 | 4.6 | 5.7 | 6.6 |
| Sand-lightweight | 2.7 | 3.3 | 3.8 | 4.6 | 5.4 |
| Lightweight | 2.5 | 3.1 | 3.6 | 4.4 | 5.1 |

For SI: 1 inch = 25.4 mm.

❖ The data in Table 722.2.1.1 were derived from Portland Cement Association (PCA) Bulletin 223, "Fire Endurances of Concrete Slabs as Influenced by Thickness, Aggregate Type, and Moisture," and PCA Publication T-140, *Fire Resistance of Reinforced Concrete Floors*.

**722.2.1.1.2 Core spaces filled.** Where all of the core spaces of hollow-core wall panels are filled with loose-fill material, such as expanded shale, clay or slag, or vermiculite or perlite, the *fire-resistance rating* of the wall is the same as that of a solid wall of the same concrete type and of the same overall thickness.

❖ The PCA report "Tests of Fire Resistance and Strength of Walls of Concrete Masonry Units" shows that filling cores of concrete masonry units with loose lightweight aggregates increases the fire endurance to a duration significantly longer than that of solid

Attachment 9

Farmland Protection

# Farmland Classification Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR

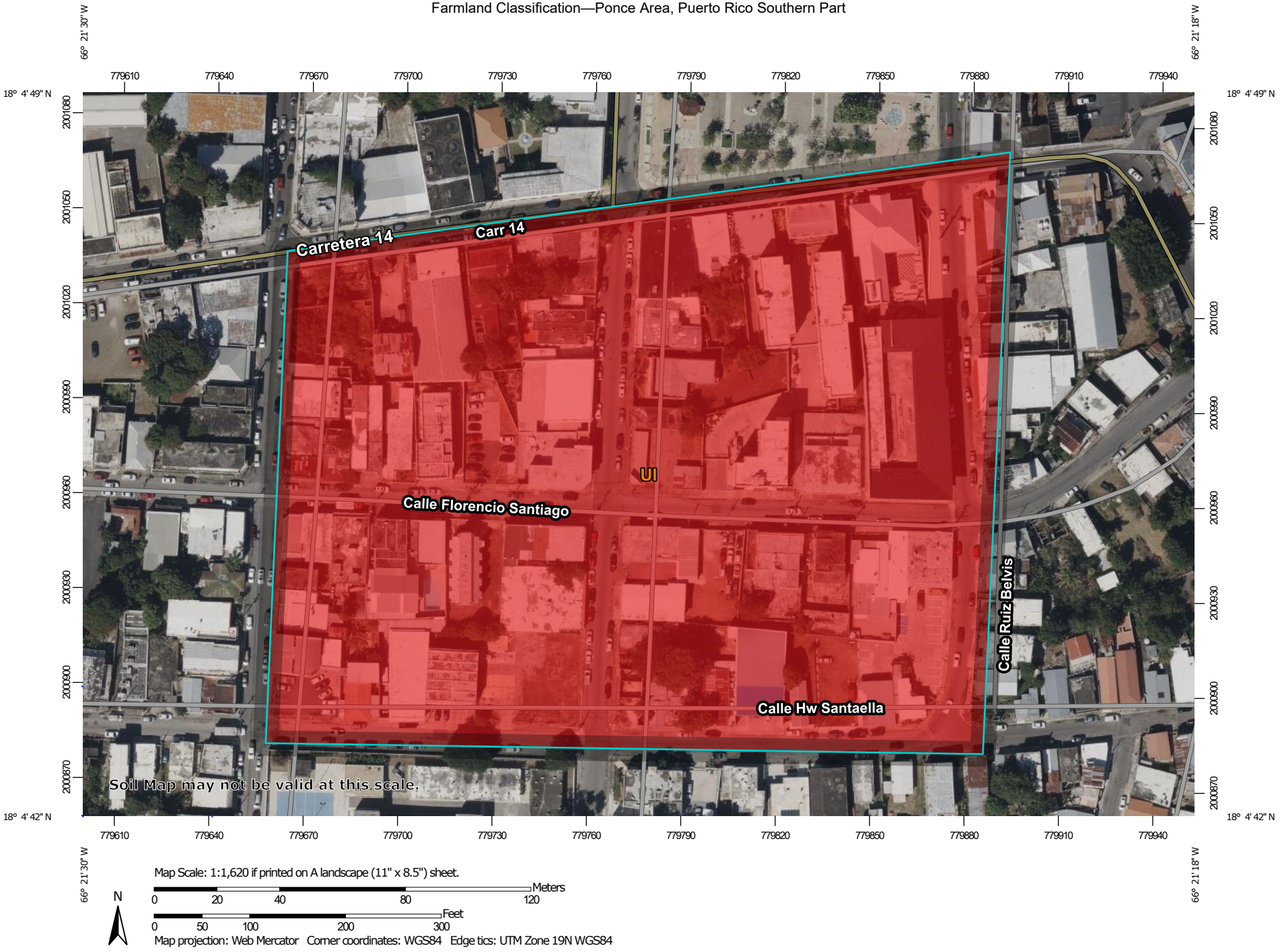
USDA **Natural Resources Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

5/1/2025
Page 1 of 6

Source: U.S. Department of Agriculture (USDA) Web Soil Survey (Spatial Reference: WGS84), URL https://websoilsurvey.nrcs.usda.gov/

Prepared by ICF




Map Scale: 1:1,620 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 20 40 80 120

Feet: 0 50 100 200 300

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

# MAP LEGEND

**Area of Interest (AOI)**

- Area of Interest (AOI)

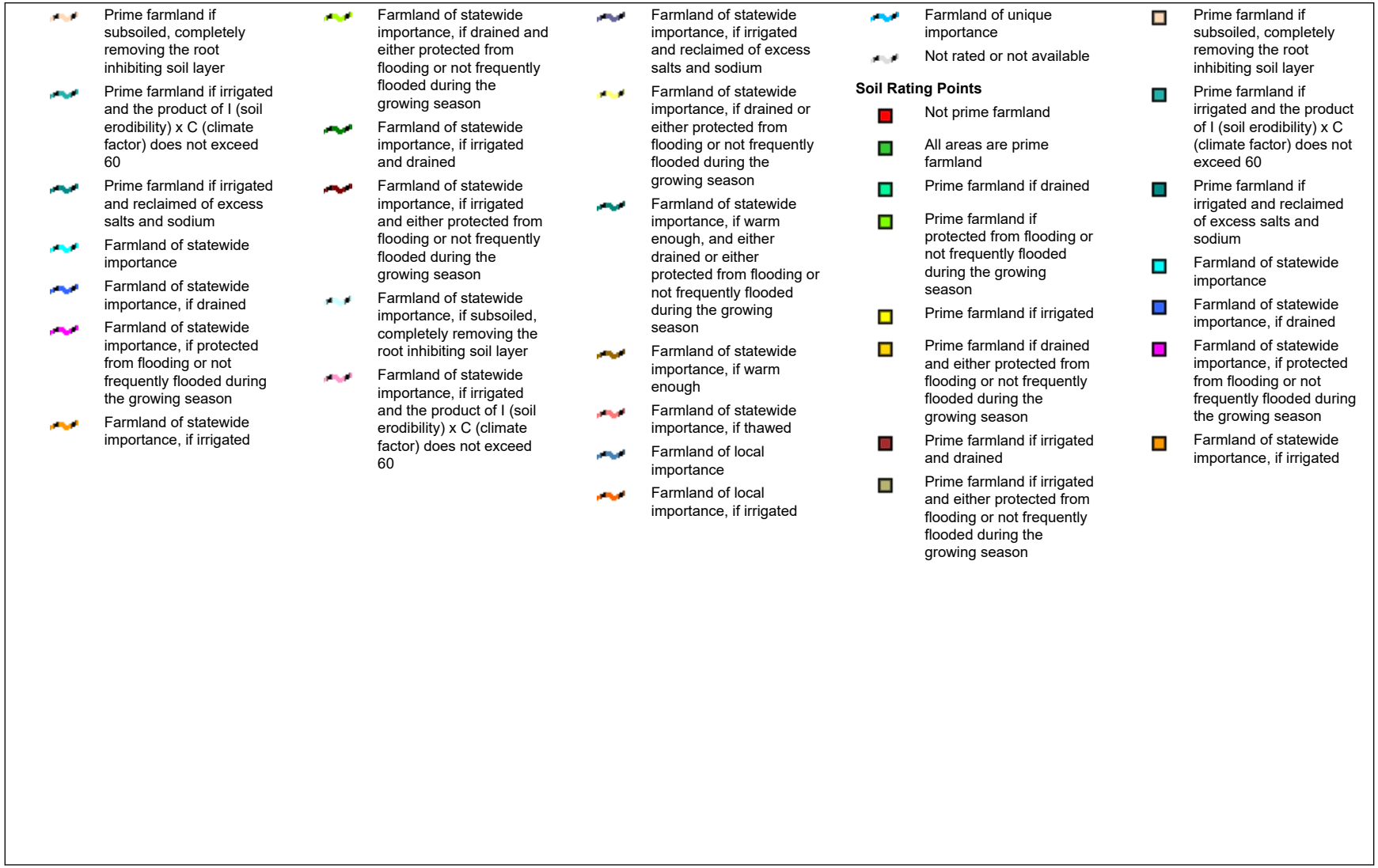
**Soils**

**Soil Rating Polygons**

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

**Soil Rating Lines**

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


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

**Water Features**

- Streams and Canals

**Transportation**

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

**Background**

- Aerial Photography

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

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

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

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

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

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

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

Soil Survey Area: Ponce Area, Puerto Rico Southern Part
Survey Area Data: Version 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 | 9.8 | 100.0% |
| **Totals for Area of Interest** | | | **9.8** | **100.0%** |

## Description

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

## Rating Options

*Aggregation Method:* No Aggregation Necessary

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

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

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

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

*Tie-break Rule:* Lower

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

# Attachment 10

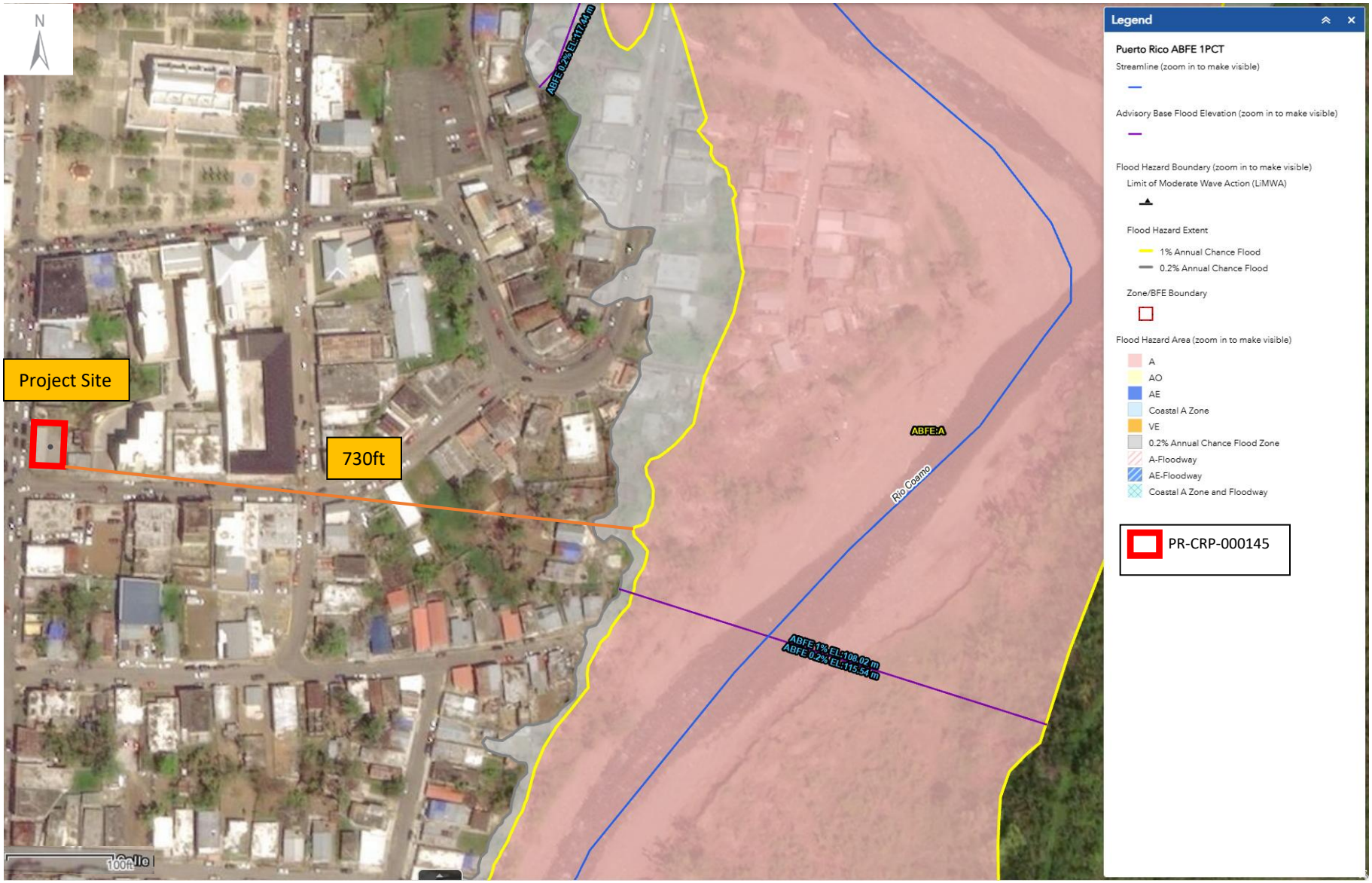
# Floodplain Management

## Advisory Base Flood Elevation Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: https://fema.maps.arcgis.com/apps/webappviewer/index.html?id=31dfa15671944086b54b55bfc03344d7

Prepared by ICF

Attachment 11

Historic Preservation

OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO

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

Thursday, June 26, 2025

Lauren B Poche

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

SHPO-CF-06-02-25-06 PR-CRP-000145 (Coamo), Proyecto Residencial Comercial Pisos de Coamo FS26

Dear Ms. Poche,

We have reviewed the archaeological monitoring plan, dated June 2, 2025, prepared for the above referenced project. The plan is deemed acceptable.

If you have any questions regarding our comments, please do not hesitate to contact our Office.
Sincerely,

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

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

May 28, 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

## Re: SHPO-CF-02-13-25-01/SHPO-CF-05-28-25-01 – PR-CRP-000145, - Proyecto Residencial Comercial Pisos de Coamo FS26, Coamo, Puerto Rico – Archaeological Monitoring Plan Submission

Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated March 1, 2025, in response to the submission of documentation for PR-CRP-000145, Proyecto Residencial Comercial Pisos de Coamo FS26. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking conditioned to the implementation of the intensive archaeological survey (Phase II) work plan, dated April 22, 2024, prepared for the above referenced project. On April 17, 2025, the End of Fieldwork Report was submitted to your office and was deemed acceptable in a letter dated May 12, 2025.

The Phase II Final Report was submitted to your office on May 28, 2025 (SHPO-CF-05-28-25-01) with a recommendation for archaeological monitoring during the project construction, limited to the Southeast Quadrant of the parcel under evaluation.

At this time, we are submitting the archaeological monitoring plan prepared by Archaeologist Norma Medina Carrillo, Ph.D. for your review and acceptance. Please note that if human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA will be followed.

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

Kindest regards,

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

Attachments

# ARCHAEOLOGICAL MONITORY PLAN FOR

PR-CRP-000145

"Proyecto Residencial Comercial Pisos de Coamo"

Florencio Street #26 Pueblo ward, Coamo, Puerto Rico

FS26 - SHPO 03-08-21

Norma Medina-Carrillo, PhD

June 2, 2025

## 1. Introduction

We present for PR-SHPO consideration the archaeological Monitoring Plan for the Commercial Residential Project Pisos de Coamo. The project SITE (APE) is located in the traditional historic center of Coamo (Figure 1). ICF Company requested the plan to conduct the archaeological monitoring during the Project Coordination Meeting of May 7, 2025. The "Proyecto Residencial Comercial Pisos de Coamo FS26" is a proposed initiative of the Autonomous Municipality of Coamo, aimed at helping revitalize the Historic Zone of Coamo. The municipality of Coamo performed a Rehabilitation Plan for the Historic Zone of Coamo in 2002.[1] Following the guidelines established in this Plan, the municipality considered acquiring unoccupied plots within the Historic Center, for restructuring affordable housing projects, and also commercial projects as the Posada San Blas Hotel.

The APE urban parcel was acquired by the municipality of Coamo in 2019 as part of the strategy for the Historic District Plan. This parcel is part of the Traditional Urban Center (TUC) of Coamo. The purpose of developing this urban parcel is to construct a multipurpose residential-commercial building that will encourage the economy of Coamo and help to repopulate the Traditional Urban Center (TUC). The urban plot is at #26 Florencio Santiago Street, corner with Dr. José Celso Barbosa Street (Figure 2).

[1] Corchado, Samuel. Análisis y Propuestas para la revitalización del Centro Urbano de Coamo, 2002.

Initially, the project was presented to the Archaeology and Ethnohistory Program (PAE) of the Institute of Puerto Rican Culture. The Archaeology and Ethnohistory Program of the ICP required an archaeological evaluation, Phase IA-IB. The IA-IB Phase Archaeological Report was presented in March 2020 (with positive results), including a recommendation for archaeological monitoring during the excavations required for the project construction. Later on, in 2022, the Autonomous Municipality of Coamo applied for disaster recovery federal funds from the Puerto Rico Department of Housing CDBG-DR City Revitalization Program (CRP). As part of the Section 106 consultation process, Puerto Rico State Historic Preservation Office (PR-SHPO) requested a Phase II Archaeological Survey for "Proyecto Residencial Comercial Pisos de Coamo FS26". In March 2025, PR-SHPO approved the implementation of "the intensive archaeological survey (Phase II) work plan, dated April 22, 2024."[2], presented by Archaeologist N. Medina to the Municipality of Coamo (2022, revised in 2024).

The archaeological Phase II Field investigation was initiated on March 10, 2025, and completed on March 20, 2025. This document consolidates the Phase II investigations and the archaeologist's recommendations based on the Phase II results. As established in the Phase II Technical Proposal, this report is presented to PR-SHPO for evaluation and comments. The report contains detailed documentation and a description of the Phase II investigations. This Phase II report includes recommendations to the regulatory agency PR-SHPO related to the results of the archaeological investigation.

After conducting the investigations corresponding to Phase II in March 2025, archaeologist N. Medina recommends limited archaeological monitoring in the southeast quadrant of the APE parcel during the demolition of the existing cement and wooden structure and the planned excavations in this sector.

Under the established parameters, the archaeologist considers that it is possible that development activities contemplated by this project could affect resources of archaeological nature. The Draft Archaeological Report Phase II presented on April 30, 2025, had negative results for three of four parcel quadrants. A recommendation for archaeological monitoring limited to the parcel's southeast quadrant was made.

The archaeological monitoring would extend a period of approximately two to four weeks in case of findings that required archaeological documentation. A qualified archaeologist will be present during the demolition and removal of the cement and wooden structure still present in the Southeast APE quadrant. Detailed documentation and description of the monitoring work will be conducted and presented in a Monitoring Report to PR-SHPO. The report will include photographs, plans, drawings, and descriptions of the resources documented during the process.

[2] State Historic Preservation Office. SHPO-CF-02-13-25-01 PR-CRP-000145 (Coamo). Letter, March 1, 2025.

This document will comply with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation and the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009.

The Monitory Plan was prepared by archaeologist N. Medina-Carrillo, who meets the Professional Qualifications Standards outlined 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. As part of the Monitoring Report, recommendations will be provided to the Coamo Municipality, the contractor, the regulatory agency (PR-SHPO), and their intermediaries related to the proper management of the findings.[3]

[3] Archeology and Historic Preservation; Secretary of the Interior's Standards and Guidelines, Part IV, Department of Interior. https://www.nps.gov/subjects/historicpreservation/upload/standards-guidelines-archeology-historic-preservation.pdf

Figure 1: Project Location of the Coamo Pisos Project, Coamo PR
Coamo Quadrangle, PR U.S.G.S. Original Scale 1:20,000

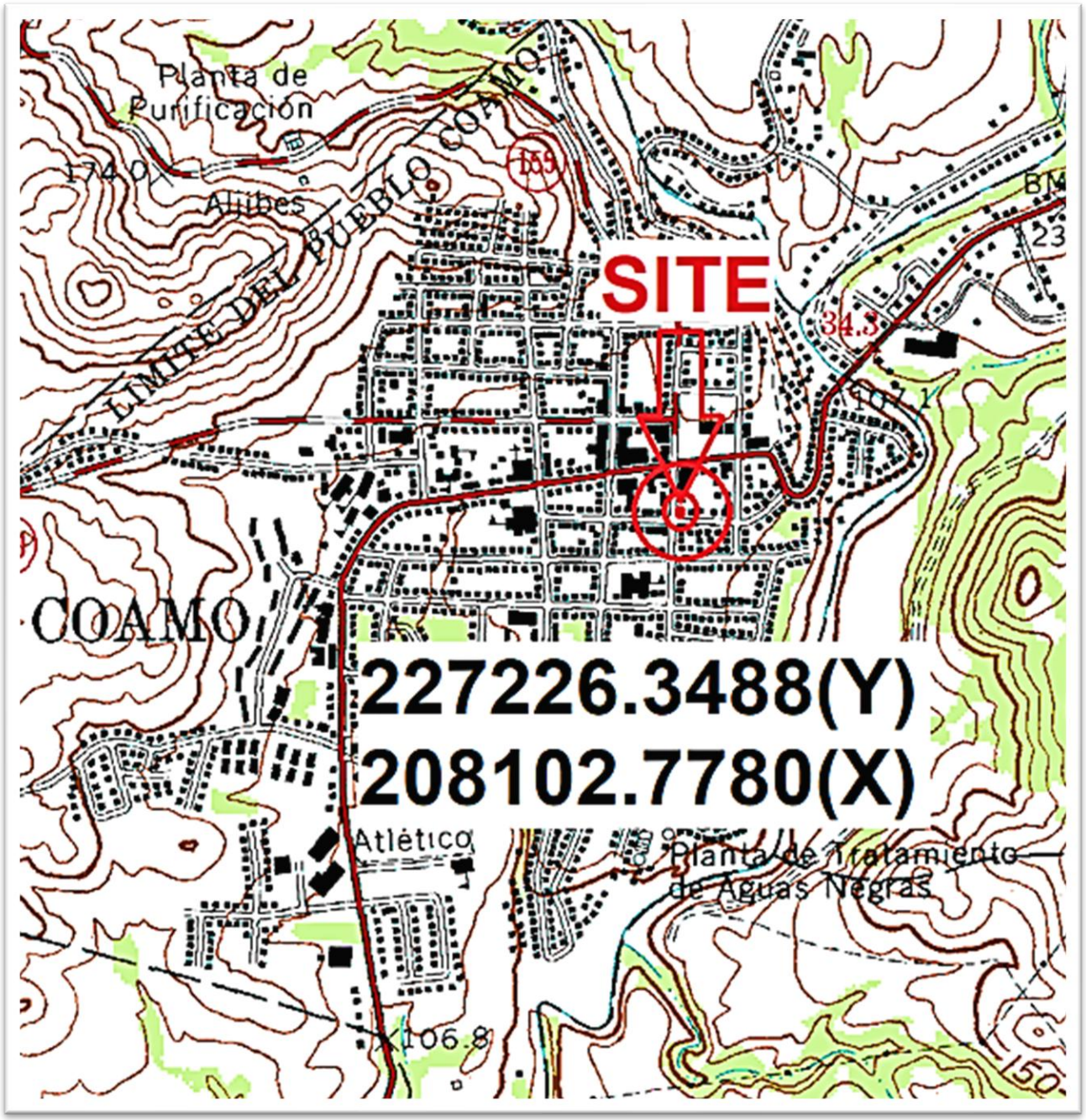
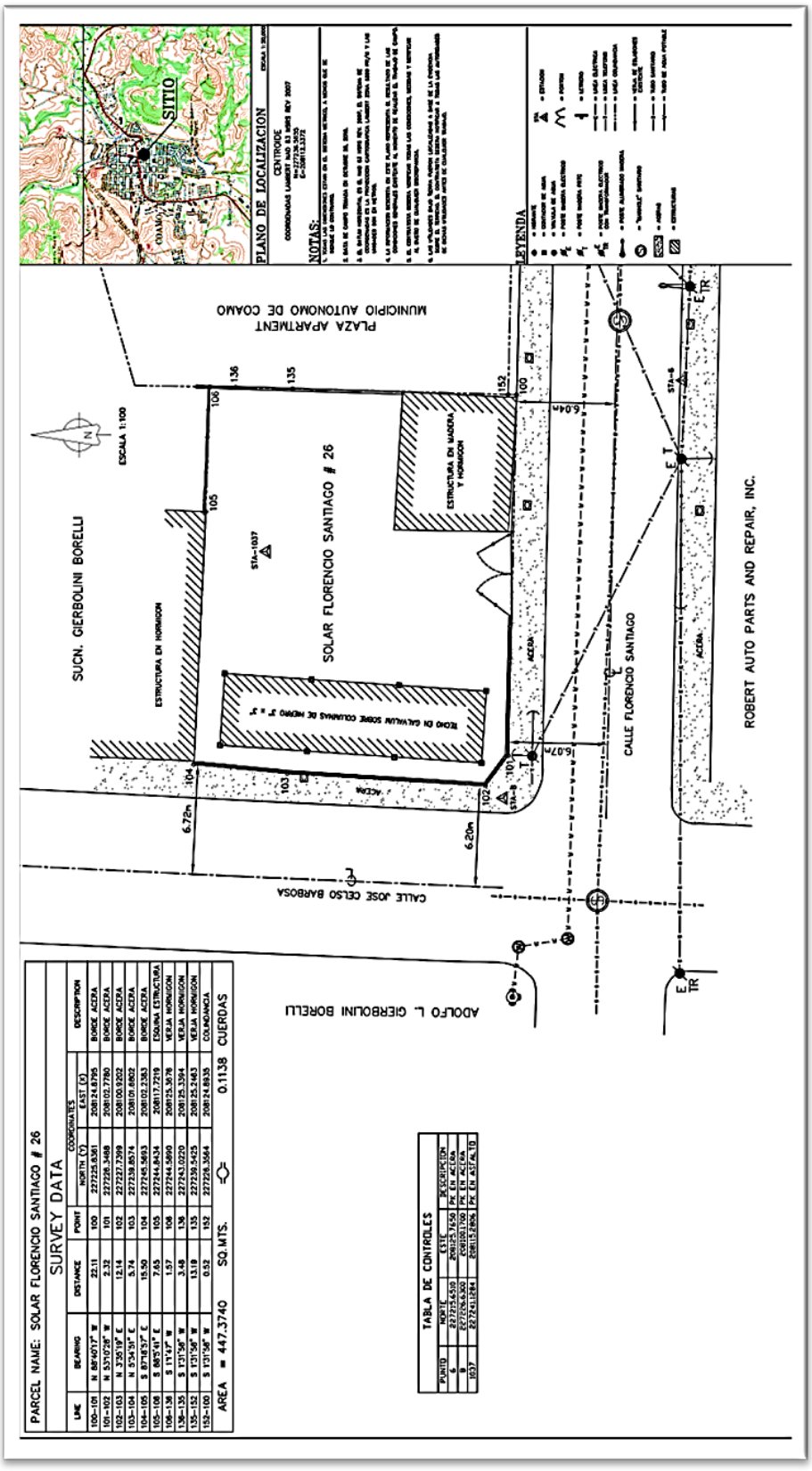


Figure 2: Project "as Built" Plan Map showing details of the project site (APE).



## II. Summary of Phase II Investigations

The archaeological Phase II Field investigation was initiated on March 10, 2025, and completed on March 20, 2025. The Final Archaeological Report brings together the Phase II investigations and the recommendations of the principal research archaeologist. As established in the approved Phase II Proposal, the report is presented to PR-SHPO for evaluation and comments. The report contains detailed documentation and a description of the Phase II investigations. This Phase II Final Report includes recommendations to the regulatory agency PR-SHPO based on the results of the archaeological investigation.

Phase II field research was conducted based on three aspects: 1) The results of Phase IB, 2) The Phase II Work Plan approved by PR-SHPO, and 3) The porpused for testing the four quadrangles of the parcel to cover all sections of the general area of the APE, at least with one Excavation Unit. In this way, it can be affirmed that Unit I was established in the northeast quadrant, Unit 2 and 3 were established in the southeast quadrant, Unit 4 was established in the southwest quadrant, and Unit 5 was established in the northwest quadrant. The results of the excavation process confirm that the northwest and southwest quadrants of the parcel were negative in Phase IB and also in Phase II. In the northwest and southwest quadrants, no elements of cultural value were detected. In these quadrants, the ground is covered by a layer of asphalt. Under the asphalt, there is a layer of caliche fill. Under the caliche, there is a layer of fill (10 YR 3/3 Dark brown) composed of sandy silt soil, and under this layer of fill is the natural soil of the parcel, composed of clay silt (10 YR2/2 very dark brown).

On the northeast and southeast quadrants, there is a layer of fill that contains abundant fragments of brick. In Unit 1, the fill was deposited in several actions and contains, in addition to the brick fragments, small fragments of domestic materials, coal, and some stones mixed with the fill. Unit 1 was considered negative since the materials are mixed within the fill layers, with no evidence of cultural integrity. On the other hand, the Southeast quadrant presents some possibilities of containing evidence of an underground structure. Two units were located in this quadrant, Unit 2, which tested positive for a tamping of earth and an agglomeration of construction materials. Inside the conglomerate, two construction bricks were recovered with evidence of lime and sand mortar still adhered. This mortar material is similar to the materials used in colonial latrines to facilitate the percolation of liquids. The construction materials were piled up in this area of the parcel as an indication of the possible demolition or partial demolition of the colonial structure. probably a latrine or “pozo filtrante”. The remains of the demolition persisted and were deposited in this area. At present, the parcel's southeast quadrant is mostly covered with wood and cement structures, making it impossible to conduct more archaeological investigation in this sector.

The archaeological materials recovered during the Phase II field investigation correspond mainly to construction material remains. Brick fragments, stones, river stones, and whole bricks were

recovered from Unit 1 and Unit 2. All the archaeological materials were recovered from fillingcontexts. None of the materials were recovered from contexts with integrity or forming part of archaeological elements. The second category of archaeological materials recovered during the plot investigation corresponds to fragments of ceramics, glass, and metal recovered within the filling layers in Unit 1. Some coal fragments were recovered within the infill layers of Unit 1. Most of the archaeological material was recovered in Unit 1, in the first level of excavation, from 0 to 20 cm depth. The ceramics component recovered from Unit 1 is mainly made up of ceramics of white ware (16 fragments), pearl ware (5 fragments), porcelain (2 fragments), "rough clay (1 fragment), possibly belonging to a cazuela or puchero, and two small botijuelas fragments. Within this ceramic sample, the ceramics are mostly associated with domestic contexts from the late nineteenth and early twentieth centuries. The botijuela fragments and the cazuela or puchero fragment can be associated with domestic contexts of the nineteenth century. In the collection of glass fragments recovered from the first layer (0- 20 cms) of Unit 1, most of these glasses correspond to translucent colored glass (24 fragments), blue tinted glass (4 fragments), amber tinted glass (4 fragments), and green tinted glass (3 fragments). The collection of metals recovered consists of nails of various sizes (10), screws (4) and metal parts (3). Two fragments of bird bones were recovered from the first layer (0- 20 cms) of Unit 1. Two plastic objects, a jar cap and a sewing needle container, were recovered. The parcel under evaluation contains, on the northeast side, a concentration of brick fragments mixed in the fill layers. The concentration of these fragments decreases in the northeast sector of the parcel as the fill layer goes deeper.

On the other hand, in Unit 2, a similar concentration of brick fragments was recovered. In Unit 2, four complete bricks were recovered in the first two levels (0-20 and 2040 cm). These bricks present evidence of sandy mortar material adhered to the surface. The presence of sandy mortar points to a brick construction element of the late Spanish colonial period or the beginning of the twentieth century.

Based on the results of the excavations of Phase II, it can be established that in the northeastern area of the Parcel APE, various layers of fill have been accumulated through time. This fill contains abundant fragments of bricks, stones, and materials associated with domestic objects in a fairly crushed state, and coal fragments. The materials in the filling layer point to materials of a domestic garbage dump from the late 19th and early 20th centuries. The amount of brick fragments and stones within this level, mixed with the described materials, indicates that the materials recovered were part of the fill deposited in this northeast area of the evaluated parcel. The archaeological materials described before do not belong to an archaeological context with integrity. Based on this evidence, in general terms, it can be affirmed that the evaluated urban parcel contains several layers of fill material between 0 and 60 cm deep. Reaching the 60 cm is the natural soil of the plot. This layer of fill is detected near the eastern boundary of the parcel. In the West and North areas of the plot, the two excavated Units 4 and 5 were negative for historical materials or construction elements. Both Units (4 and 5) present an asphalt layer and the caliche filler material. On Unit 4,

the caliche layer is 7 cm thick. Under this layer, there is sandy silt soil 10 YR 3/3 dark Brown up to 40 cm.. At 40 to 60 cm deep, the soil is silty 10 YR very dark Brown. This silty layer corresponds to the natural soil of the plot. In the West and North quadrangles, all the excavated levels were negative for materials or cultural vestiges. In the Southeast quadrant of the APE parcel, Units 2 and 3 were excavated. Unit 3 presents negative archaeological results from 0 to 80 cms. Unit 3 presented three stratigraphic levels. The first layer begins with the cement slab of the woodand cement structure that is located in the southeast corner of the plot. The next layer is the base of the cement floor, which is formed by a sand fill (topping). The third layer presents a sandy silt substrate 10 Y/R 4/3 Brown color. This third layer extends up to 80 cm deep. Unit 3 was negative for cultural remains or material.

Unit 2 and the extension of Unit 2 produced positive results, evidence of a tamping of earth to the east of Unit 2 and an agglomerate of colonial construction materials (4 complete bricks, brick fragments, stones, a river Chinese, and fragmentsof old cement) on the west of Unit 2. The agglomerate of colonial materials points to the demolition of a colonial structure whose remnants were accumulated in this area. The research process in this southeast quadrant of the plot is hindered by the existence of the structure of the wood and cement. The exploration of the Southeast parcel quadrant is limited until this structure is removed. In the Southeast quadrant, sanitary pipes are currently installed corresponding to two bathrooms that were installed at the back of the structure.

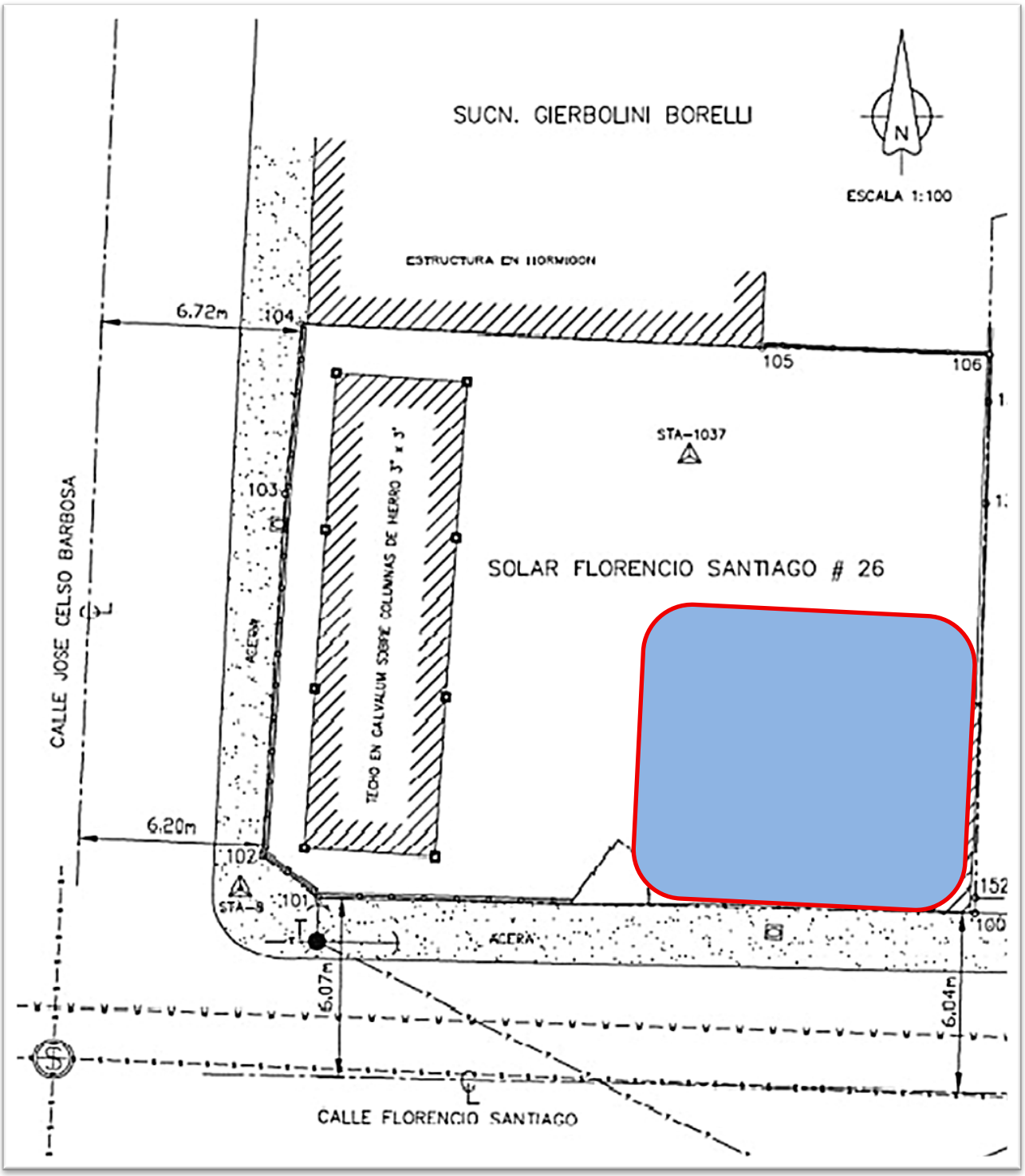
Based on the results of the Phase II Archaeological Investigation conducted in this urban parcel, no "In situ" elements or materialswere detected that deserve consideration for inclusion in the National Register of Historic Places. The extension of the plot is 0.296 square miles (477 square meters), the fill layers containing brick fragments extends from 0 to 60 cms deep in some sectors. From 60 cm deep the natural Loamy soil of the parcel is found.

Based on the results of archival, field, and laboratory research, it can be established that the parcel area under study has remained occupied by residences since the second half of the nineteenth century. The plan developed by the Agronomist Augusto Braschi, in 1870, shows the existence of a small house structure observed on the corner of Calle del Fuerte (today Calle José Celso Barbosa) and Calle Ermita (today Calle Florencio Santiago). In the Plan legend, the house is identified as a wooden house. This wooden house possibly corresponds to the first structure built on the parcel under assessment. Through time, this urbanblock was mainly dedicated to residential use during the 19th and 20th centuries. During the twentieth century, two other wooden residences with a façade balcony in the direction of José Celso Barbosa Street were documented. The 1936 aerial photo presents a criollostyle house with a L-shaped plan (Planta de martillo) that covers a large part of the parcel area. The courtyard of this house was located in the eastern sector of the parcel. This “criollo style” wood house was demolished in the mid-1940s. Another wooden house was built in the 1950s for rental housing use. In the mid-1990s, this third wooden house was also

demolished. The empty parcel was then reutilized for a car dealer business. A metal structure was built along the west side of the plot to accommodate the cars for sale. This structure is preserved to the present. On the southeast quadrant of the plot, a wooden and concrete structure was also built to be used as a vegetable store. Both mentioned structures are still located on the plot. In 2019, this urban parcel was purchased by the municipality of Coamo to develop a commercial residential project that would help bring residents to the Traditional Urban Center (TUC) of Coamo.

Based on the Phase II Archaeological Investigation conducted in the APE site, no "In situ" elements or materials were detected that deserve consideration for inclusion in the National Register of Historic Places. Additional archaeological investigations are not recommended in the Northeast, Northwest, and Southwest quadrants. However, the Southeast Quadrant has not been completely evaluated due to the concrete and wood structure that persists in this parcel sector. Based on the above, it is highly recommended that the project continue to its construction stage and archaeological monitoring be conducted during the demolition of this cement and wooden structure to ensure no cultural elements of archaeological value are preserved in this quadrant. Archaeological monitoring is firmly recommended during the project construction for the Southeast Quadrant of the parcel APE (Figure 3).

Figure 3: Southeast quadrant of parcel (APE) recommended for monitoring during the project construction process.



## III. General objectives of the Archaeological Monitoring

The main objective of the Archaeological Monitoring is to systematically document the contexts or elements of historical-cultural and archaeological value and interest that are located within the area of impact of the proposed project during the process of demolition of slabs and structures and the excavation process for foundations and infrastructure facilities of the new building. The monitoring includes supervising and monitoring of all tasks that involve subsurface intervention in the project site area.

o Archaeological monitoring is based on the identification, cleaning, and systematic documentation of all the cultural elements and contexts located in the project area.

o Intervene to recover any fortuitous or unexpected archaeological finds that may be found in the subsoil or may be at risk of being affected by the construction works of the proposed project.

o Identify, during the excavation works of the project, the cultural and architectural components of archaeological artifacts or elements that may be found in the subsoil. In case of fortuitous or unexpected findings, as the case may be, excavations will be conducted to diagnose the archaeological evidence, delimiting archaeological elements and the recovery of isolated remains.

o The Archaeological Monitoring process will be conducted by an archaeologist who meets the Professional Qualifications Standards outlined in 36 CFR Part 61 and is listed as an archaeologist by the Council for the Protection of Earth's Archaeological Heritage (Council) to conduct Phase I, Phase II, and Phase III studies.

o The results of the archaeological monitoring are summarized, discussed, and presented to the regulatory agencies in a technical report containing the archaeologist's evidence, observations, conclusions, and recommendations in compliance with the regulations established by 36 CFR, Part 800 of the National Historic Preservation Act administered by the State Office of Historic Preservation.[4]

[4] 36 CFR PART 800 -- PROTECTION OF HISTORIC PROPERTIES (incorporating amendments effective August 5, 2004) http://www.achp.gov/regs-rev04.pdf

## IV. Monitory Fieldwork Plan

- The archaeologist will attend the project meetings during the project construction work.
- The archaeologist will coordinate the monitoring work and adjust the project work schedule.
- The archaeologist in charge will notify the PR-SHPO agency (through intermediaries, ICF) of the beginning and end dates of the archaeological monitoring process.
- The archaeologist will supervise the process of removing the asphalt layer.
- The archaeologist will supervise the process of removing the concrete slab located on the Southeast quadrant of the project Site.
- The archaeologist will inspect the parcel Southeast quadrant area and perform a superficial cleanup of the area once it's free from the asphalt and concrete slab.
- The archaeologist will supervise all the activities related to the mechanical excavations required by the construction project in the Southeast quadrant.
- The archaeologist will review the remains of the demolition to detect the presence or absence of cultural remains of heritage value of ecofacts contained in the residues.
- The archaeologist will document all the monitoring work through descriptions, photographs, drawings, and videos.
- If greater evidence is identified during the Archaeological Monitoring, the archaeologist will coordinate with the regulatory agency (PR-SHPO) through intermediaries (ICF) to determine the process to be followed with such findings.
- In case of unexpected human remains found, PR-SHPO will be informed within the first 24 hours of the finding. PR-SHPO State Archaeologist will visit the project site to establish, in coordination with the Principal Investigator, a proper protocol for resource management.
- To protect the findings, the archaeologist will coordinate the necessary actions with the archaeologist designated by PR-SHPO.
- The archaeologist will conduct the respective analysis of the archaeological material that may well be recovered during the Archaeological Monitoring work.
- The archaeologist will present a detailed weekly report with the results of the archaeological monitoring.
- The Final Report of Archaeological Monitoring presented will contain drawings, photographs, and descriptions that help to expose the monitoring process conducted.
- The Principal Investigator will inform the PR-SHPO through intermediaries (ICF), within 24 hours of any significant findings documented during the archaeological monitoring process.
- The Monitory Final Report will contain recommendations on the need to conduct other phases of archaeological research at the project parcel (APE).

## V. Laboratory work plan

The following laboratory tasks will be performed during the Monitory process.

- Preparation of data forms taken in the field and laboratory
- Review of the field record to verify its match with the material being transported to the laboratory area.
- Laboratory Registration
- Initial stabilization of materials
- Material washing
- Material drying
- Material separation
- Specific material analysis
- Photographs
- Material drawings
- Tabulation of analysis results
- Labeling of diagnostic artifacts
- Inventory of archaeological materials
- Proper storage of archaeological materials in plastic bags and plastic boxes with lids
- The preparation of the archaeological collection will be conducted for adequate storage for the final curation of the collection.

1. The preparation of documentary records that will accompany the collection will be conducted up to the final deposit.
2. Establish the logistics to transport the materials and records for their final cure.
3. Final decisions on the storage and custody of archaeological material products of the monitory shall be conducted by written agreement between PR-SHPO and the project proponent.
4. As a temporary custody measure, the archaeological materials of the project will be saved in Calle Corrientes #34, Urb. Riachuelo, Trujillo Alto, Puerto Rico, until the written agreement between the parties, the collection is assigned to its final repository.

## VI. Technical work team

Principal Research Archaeologist: Norma Medina-Carrillo, PhD

Archaeologist: Rosa Martinez Montero, BA

Field Assistant: Archaeologist Anthony Smith, BA

## VII. Work schedule

| Time | Activities |
|---|---|
| 2 to 4 weeks | Monitoring and documentation of Fieldwork. |
| 4 weeks | Preparation of technical drawings, analysis of laboratory, selection of photographs, and writing of the DRAF and FINAL REPORTS. |
| Total 8-12 weeks | • Delivery of a DRAF Monitoring Report to the Agency.<br>• Delivery of the FINAL Monitoring Report. |

## VIII. Specific considerations of the project

- The proposed archaeological monitoring will be conducted in the general area of the project to cover demolitions during the process of removing the concrete slab from the structure and the excavations for footings and pipes, tanks, etc.
- The project designers will supply the surveying, plans, and figures necessary to work on the monitory procedure.
- The contractor shall provide support and technical assistance in the field of surveying to established on the existing survey plan of the property, the archaeological elements that arise during the monitory process.

## IX. Final Report

The archaeological monitoring report submitted to the agencies will satisfactorily comply with the parameters established for this level of investigation at both the state and federal levels. The final report will include a detailed description of the methodology used to complete the archaeological monitoring. The field and laboratory processes and the analysis of the results of the field research will be described. The results of the archaeological monitoring will be evidenced by drawings of plants and profiles, photographic documentation, and video recordings. All the investigation procedures will be described. The archaeological results of the monitoring process will lead to a

final recommendation on the need to conduct additional archaeological phases.

All research procedures will be conducted under the research parameters established under the National Historic Preservation Act of 1966 and the 36 CFR PART 800 – Protection of Historic Properties Regulations, Subpart Purposes and Participants, and Subpart B-Section 106 Process.

X. Bibliography

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OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Tuesday, June 17, 2025

Lauren B Poche

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

SHPO-CF-05-28-25-01 PR-CRP-000145 (Coamo), Proyecto Residencial Comercial Pisos de Coamo FS26

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.

We have reviewed the intensive (Phase II) archaeological survey report, dated April 30, 2025, prepared for this project. After an evaluation of all the documentation provided, the PRSHPO agrees with your original finding of no adverse effect upon historic properties.

Please note that should the Agency discover any historic properties including archaeological findings 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/ MB

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

May 28, 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

## Re: SHPO-CF-02-13-25-01 – PR-CRP-000145, - Proyecto Residencial Comercial Pisos de Coamo FS26, Coamo, Puerto Rico – Phase II Final Report

Dear Architect Rubio Cancela,

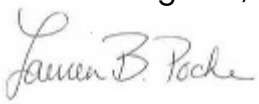
On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated March 1, 2025, in response to the submission of documentation for PR-CRP-000145, Proyecto Residencial Comercial Pisos de Coamo FS26. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking conditioned to the implementation of the intensive archaeological survey (Phase II) work plan, dated April 22, 2024, prepared for the above referenced project. On April 17, 2025, the End of Fieldwork Report was submitted to your office and was deemed acceptable in a letter dated May 12, 2025.

We are submitting Phase II Final Report prepared by Archaeologist Norma Medina Carrillo, Ph.D. for your review and acceptance. Archaeological monitoring is recommended during the project construction, limited to the Southeast Quadrant of the parcel under evaluation. If this is deemed appropriate, an archaeological monitoring plan will be prepared and

submitted to the PRSHPO for review and concurrence regarding the appropriateness of its implementation for this undertaking.

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

Kindest regards,



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

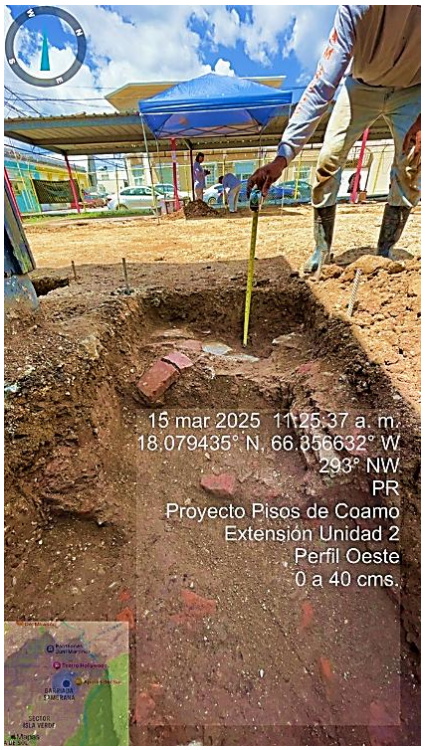
Attachments

# Archaeological Phase II Draft Report

## for PR-CRP- 000145

## "Proyecto Residencial Comercial Pisos de Coamo"

## FS26 - SHPO 03-08-21



Presented to:

Puerto Rico State Historic
Conservation Office, San Juan, PR.

Presented by:

Hon. Juan Carlos Garcia Padilla
Mayor of Municipio Autónomo de Coamo

Prepared by:

Norma Medina-Carrillo, Ph.D
Lapislázuli, Inc.
#34 Corrientes Street,
Riachuelo, Trujillo Alto, PR

April 30, 2025

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# EXECUTIVE SUMMARY

The "Proyecto Residencial Comercial Pisos de Coamo" is a proposal of the Autonomous Municipality of Coamo as part of the Plan of improvements for the Historic District of Coamo. The project parcel is part of the Traditional Urban Center (TUC) of Coamo. The purpose of developing this urban parcel is to construct a multipurpose residential-commercial building that will encourage the economy of Coamo and help to repopulate the Traditional Urban Center (TUC). The urban plot is at #26 Florencio Santiago Street, corner with Dr. José Celso Barbosa Street. The APE urban parcel was acquired by the municipality of Coamo in 2019 as part of the strategy for the Historic District Plan. In 2022, the Autonomous Municipal Government of Coamo decided to apply for federal funds from the Puerto Rico 2017 Disaster Recovery, CDBG-DR City Revitalization (CRP) Program. In 2022, PR-SHPO requested a Phase II for the "Proyecto Residencial Comercial Pisos de Coamo FS26". In March 2025, PR-SHPO approved the Archaeological Proposal Phase II Plan presented by Archaeologist N. Medina to the Municipal Government of Coamo in 2022.

The archaeological Phase II Field investigation was initiated on March 10, 2025, and completed on March 20, 2025. The Final Archaeological Report brings together the Phase II investigations and the recommendations of the principal research archaeologist. As established in the approved Phase II Proposal, the report is presented to PR-SHPO for evaluation and comments. The report contains detailed documentation and a description of the Phase II investigations. This Phase II Final Report includes recommendations to the regulatory agency PR-SHPO based on the results of the archaeological investigation.

Phase II field research was conducted based on three aspects: 1) The results of Phase IB, 2) The Phase II Work Plan approved by PR-SHPO, and 3) The porpused for testing the four quadrangles of the parcel to cover all sections of the general area of the APE, at least with one Excavation Unit. In this way, it can be affirmed that Unit I was established in the northeast quadrant, Unit 2 and 3 were established in the southeast quadrant, Unit 4 was established in the southwest quadrant, and Unit 5 was established in the northwest quadrant. The results of the excavation process confirm that the northwest and southwest quadrants of the parcel were negative in Phase IB and also in Phase II. In the northwest and southwest quadrants, no elements of cultural value were detected. In these quadrants, the ground is covered by a layer of asphalt. Under the asphalt, there is a layer of caliche fill. Under the caliche, there is a layer of fill (10 YR 3/3 Dark brown) composed of sandy silt soil, and under this layer of fill is the natural soil of the parcel, composed of clay silt (10 YR 2/2 very dark brown).

On the northeast and southeast quadrants, there is a layer of fill that contains abundant fragments

of brick. In Unit 1, the fill was deposited in several actions and contains, in addition to the brick fragments, small fragments of domestic materials, coal, and some stones mixed with the fill. Unit 1 was considered negative since the materials are mixed within the fill layers, with no evidence of cultural integrity.

On the other hand, the Southeast quadrant presents some possibilities of containing evidence of an underground structure. Two units were located in this quadrant, Unit 2, which tested positive for a tamping of earth and an agglomeration of construction materials. Inside the conglomerate, two construction bricks were recovered with evidence of lime and sand mortar still adhered. This mortar material is similar to the materials used in colonial latrines to facilitate the percolation of liquids. The construction materials were piled up in this area of the parcel as an indication of the possible demolition or partial demolition of the colonial structure. probably a latrine or "pozo filtrante". The remains of the demolition persisted and were deposited in this area. At present, the parcel's southeast quadrant is mostly covered with wood and cement structures, making it impossible to conduct more archaeological investigation in this sector.

The archaeological materials recovered during the Phase II field investigation correspond mainly to construction material remains. Brick fragments, stones, river stones, and whole bricks were recovered from Unit 1 and Unit 2. All the archaeological materials were recovered from filling contexts. None of the materials were recovered from contexts with integrity or forming part of archaeological elements. The second category of archaeological materials recovered during the plot investigation corresponds to fragments of ceramics, glass, and metal recovered within the filling layers in Unit 1. Some coal fragments were recovered within the infill layers of Unit 1. Most of the archaeological material was recovered in Unit 1, in the first level of excavation, from 0 to 20 cm depth. The ceramics component recovered from Unit 1 is mainly made up of ceramics of white ware (16 fragments), pearl ware (5 fragments), porcelain (2 fragments), "rough clay (1 fragment), possibly belonging to a *cazuela* or *puchero,* and two small *botijuelas* fragments. Within this ceramic sample, the ceramics are mostly associated with domestic contexts from the late nineteenth and early twentieth centuries. The botijuela fragments and the *cazuela* or *puchero* fragment can be associated with domestic contexts of the nineteenth century. In the collection of glass fragments recovered from the first layer (0- 20 cms) of Unit 1, most of these glasses correspond to translucent colored glass (24 fragments), blue tinted glass (4 fragments), amber tinted glass (4 fragments), and green tinted glass (3 fragments). The collection of metals recovered consists of nails of various sizes (10), screws (4) and metal parts (3). Two fragments of bird bones were recovered from the first layer (0-20 cms) of Unit 1. Two plastic objects, a jar cap and a sewing needle container, were recovered.

The parcel under evaluation contains, on the northeast side, a concentration of brick fragments mixed in the fill layers. The concentration of these fragments decreases in the northeast sector of the parcel as the fill layer goes deeper. On the other hand, in Unit 2, a similar concentration of brick fragments was recovered. In Unit 2, four complete bricks were recovered in the first two levels (0-20 and 20-

40 cm). These bricks present evidence of sandy mortar material adhered to the surface. The presence of sandy mortar points to a brick construction element of the late Spanish colonial period or the beginning of the twentieth century.

Based on the results of the excavations of Phase II, it can be established that in the northeastern area of the Parcel APE, various layers of fill have been accumulated through time. This fill contains abundant fragments of bricks, stones, and materials associated with domestic objects in a fairly crushed state, and coal fragments. The materials in the filling layer point to materials of a domestic garbage dump from the late 19th and early 20th centuries. The amount of brick fragments and stones within this level, mixed with the described materials, indicates that the materials recovered were part of the fill deposited in this northeast area of the evaluated parcel. The archaeological materials described before do not belong to an archaeological context with integrity. Based on this evidence, in general terms, it can be affirmed that the evaluated urban parcel contains several layers of fill material between 0 and 60 cm deep. Reaching the 60 cm is the natural soil of the plot.

This layer of fill is detected near the eastern boundary of the parcel. In the West and North areas of the plot, the two excavated Units 4 and 5 were negative for historical materials or construction elements. Both Units (4 and 5) present an asphalt layer and the caliche filler material. On Unit 4, the caliche layer is 7 cm thick. Under this layer, there is sandy silt soil 10 YR 3/3 dark Brown up to 40 cm.. At 40 to 60 cm deep, the soil is silty 10 YR very dark Brown. This silty layer corresponds to the natural soil of the plot. In the West and North quadrangles, all the excavated levels were negative for materials or cultural vestiges.

In the Southeast quadrant of the APE parcel, Units 2 and 3 were excavated. Unit 3 presents negative archaeological results from 0 to 80 cms. Unit 3 presented three stratigraphic levels. The first layer begins with the cement slab of the wood and cement structure that is located in the southeast corner of the plot. The next layer is the base of the cement floor, which is formed by a sand fill (topping). The third layer presents a sandy silt substrate 10 Y/R 4/3 Brown color. This third layer extends up to 80 cm deep. Unit 3 was negative for cultural remains or material.

Unit 2 and the extension of Unit 2 produced positive results, evidence of a tamping of earth to the east of Unit 2 and an agglomerate of colonial construction materials (4 complete bricks, brick fragments, stones, a river Chinese, and fragments of old cement) on the west of Unit 2. The agglomerate of colonial materials points to the demolition of a colonial structure whose remnants were accumulated in this area. The research process in this southeast quadrant of the plot is hindered by the existence of the structure of the wood and cement. The exploration of the Southeast parcel quadrant is limited until this structure is removed. In the Southeast quadrant, sanitary pipes are currently installed corresponding to two bathrooms that were installed at the back of the structure.

Based on the results of the Phase II Archaeological Investigation conducted in this urban parcel, no "In situ" elements or materials were detected that deserve consideration for inclusion in the National Register of Historic Places. The extension of the plot is 0.296 square miles (477 square meters), the fill layers containing brick fragments extends from 0 to 60 cms deep in some sectors. From 60 cm deep the natural Loamy soil of the parcel is found.

Based on the results of archival, field, and laboratory research, it can be established that the parcel area under study has remained occupied by residences since the second half of the nineteenth century. The plan developed by the Agronomist Augusto Braschi, in 1870, shows the existence of a small house structure observed on the corner of Calle del Fuerte (today Calle José Celso Barbosa) and Calle Ermita (today Calle Florencio Santiago). In the Plan legend, the house is identified as a wooden house. This wooden house possibly corresponds to the first structure built on the parcel under assessment.

Through time, this urban block was mainly dedicated to residential use during the 19th and 20th centuries. During the twentieth century, two other wooden residences with a façade balcony in the direction of José Celso Barbosa Street were documented. The 1936 aerial photo presents a criollo-style house with a L-shaped plan (*Planta de martillo*) that covers a large part of the parcel area. The courtyard of this house was located in the eastern sector of the parcel. This “criollo style” wood house was demolished in the mid-1940s. Another wooden house was built in the 1950s for rental housing use. In the mid-1990s, this third wooden house was also demolished. The empty parcel was then reutilized for a car dealer business. A metal structure was built along the west side of the plot to accommodate the cars for sale. This structure is preserved to the present. On the southeast quadrant of the plot, a wooden and concrete structure was also built to be used as a vegetable store. Both mentioned structures are still located on the plot. In 2019, this urban parcel was purchased by the municipality of Coamo to develop a commercial residential project that would help bring residents to the Traditional Urban Center (TUC) of Coamo.

Based on the Phase II Archaeological Investigation conducted in the APE site, no "In situ" elements or materials were detected that deserve consideration for inclusion in the National Register of Historic Places. Additional archaeological investigations are not recommended in the Northeast, Northwest, and Southwest quadrants. However, the Southeast Quadrant has not been completely evaluated due to the concrete and wood structure that persists in this parcel sector.

Based on the above, it is highly recommended that the project continue to its construction stage and archaeological monitoring be conducted during the demolition of this cement and wooden structure to ensure no cultural elements of archaeological value are preserved in this quadrant.

Archaeological monitoring is recommended during the project construction for the Southeast Quadrant of the parcel APE (See Figure 14).

# I. Introduction

The "Proyecto Residencial Comercial Pisos de Coamo" is a proposal of the Autonomous Municipality of Coamo as part of the Plan of improvements for the Historic Zone of Coamo (Zona Historica de Coamo). The project parcel is part of the Traditional Urban Center (TUC) of Coamo. The purpose of developing this urban parcel is to construct a multipurpose residential-commercial building that encourages the economy of Coamo and helps to repopulate the Traditional Urban Center (TUC). The urban plot under evaluation is at #26 Florencio Santiago Street, corner with Dr. José Celso Barbosa Street. This urban parcel was acquired by the municipality of Coamo in 2019 as part of the strategy of the Historic District Plan.

Initially, the project was presented to the Archaeology and Ethnohistory Program (PAE) of the Institute of Puerto Rican Culture. The Archaeology and Ethnohistory Program of the ICP required an archaeological evaluation, Phase IA-IB. The IA-IB Phase Archaeological Report was presented in March 2020 (with positive results), including a recommendation for archaeological monitoring during the excavations required for the project construction. Later on, in 2022, the Autonomous Municipal Government of Coamo applied for federal funds from the Puerto Rico 2017 Disaster Recovery CDBG-DR City Revitalization (CRP) Program. In 2022, PR-SHPO requested a Phase II for the "Proyecto Residencial Comercial Pisos de Coamo FS26". In March 2025, PR-SHPO approved the Archaeological Proposal Phase II Plan presented by Archaeologist N. Medina to the Municipal Government of Coamo in 2022.

The archaeological Phase II Field investigation was initiated on March 10, 2025, and completed on March 20, 2025. This document brings together the Phase II investigations and recommendations of the principal research archaeologist. As established in the Phase II Proposal, this report is presented to PR-SHPO for their evaluation and comments. The Final Report contains detailed documentation and a description of the Phase II investigations. The Phase II Final Report includes recommendations to the regulatory agency PR-SHPO based on the results and analysis of the archaeological investigation.

The Phase II research was assisted by three field assistants from the AM GROUP company and the collaboration of the graphic artist Melvin Rivera.

## II. Project Location

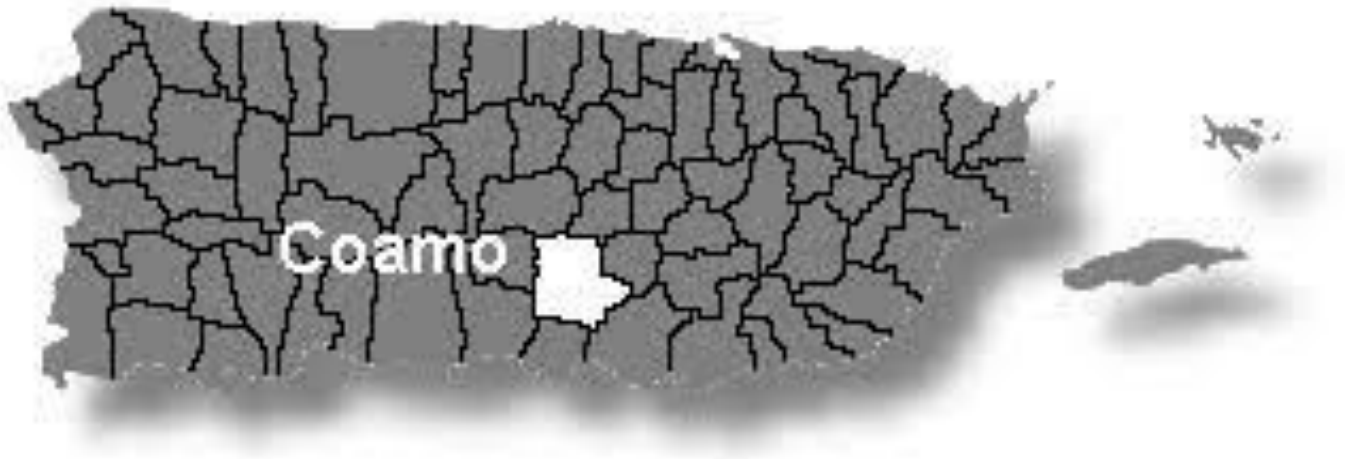



Figure 1: The project is in the Traditional Urban Center of Coamo, Puerto Rico.

**Figure 2:** The urban parcel is at #26 Florencio Santiago corner with Dr. José Celso Barbosa Street.

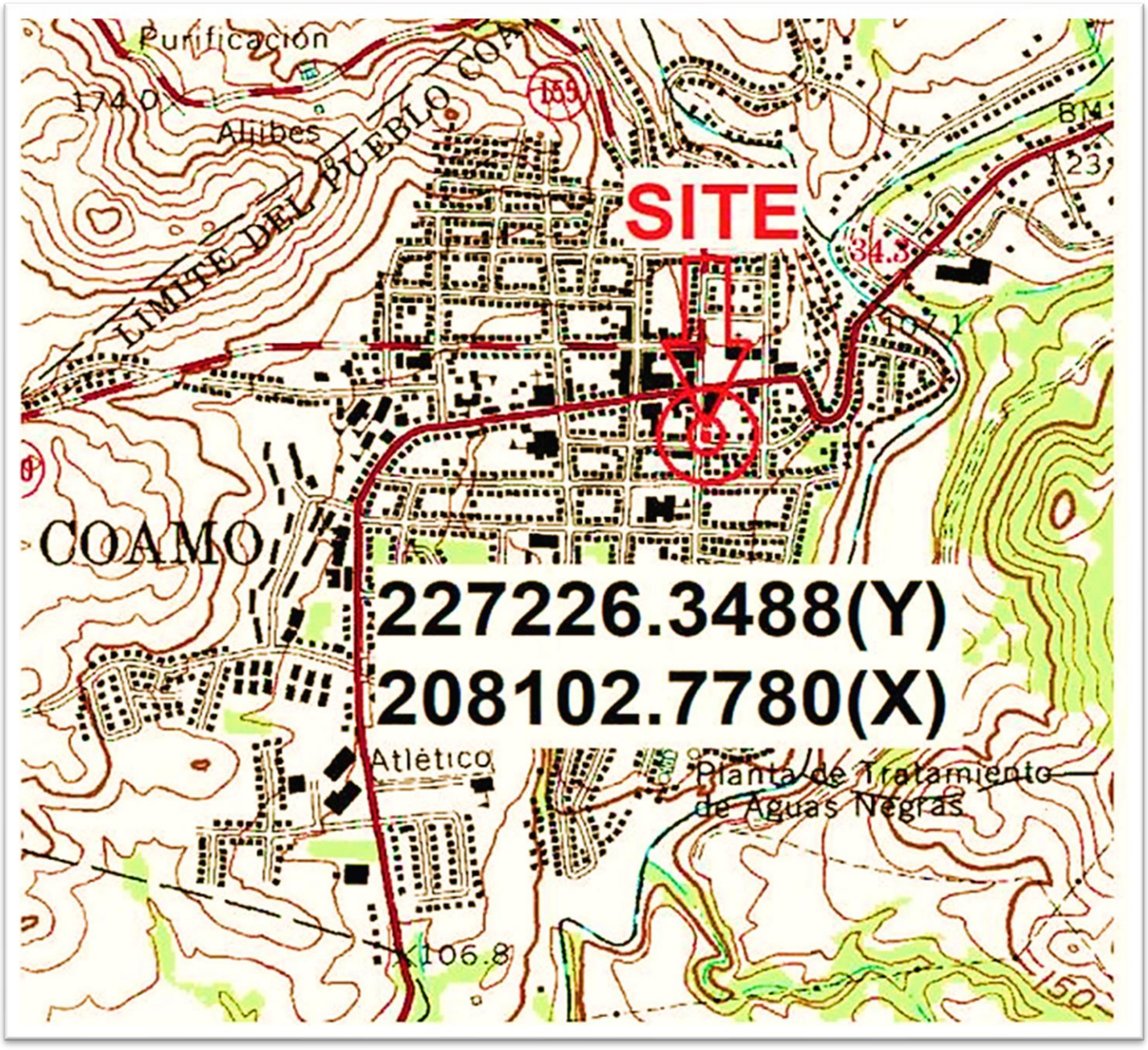



Figure 3: Location of project parcel.

**Project Coordinates:**

Y: 227226.3488, X: 208102.7780

Figure 4: Google 2020 aerial photography, showing project location.

## III. Historical background

The Spanish settlement established in this area in the sixteenth century took its name from the river that ran through its jurisdiction, called "Cuamo" by the Taino Indians. In 1582, the port of Coamo is mentioned in a report by the Captain General of Jhoan de Melgarejo Island. Bishops Manuel de Mercado and Diego de Salamanca promoted the town's foundation between 1574 and 1579.

> "... farther on, about two leagues and a half along the coast to the east, there is a bay, which they call the port of ***Cuamo,*** and at the entrance of it, on the western side, there are some reefs, and on the eastern side two islets, entering through the islets and reefs, it is a port for small ships of one hundred and one hundred and fifty tons. Even if you don't get to land, there's profundity for any *nabio*."[1]

In 1582, about twenty Castilian families settled on the banks of the river. One of its founders, Don Cristóbal de Illescas, donated the land to establish the town. The village was located north of a large Indian village. The town was initially named San Blas de Illescas in honor of the donor of the land that served as the site of the town. Diego Torres Vargas states that Coamo was declared a town in 1616, while Pedro Tomás de Córdoba states it was in 1646. The Hermitage of San Blas de Illescas was founded in 1582 by the Augustinian father Fray Diego de Salamanca. In 1661, Coamo already had a church built of masonry. This church became a parish church in 1645. At the beginning of the seventeenth century, the urban area of Coamo was practically non-existent. By the end of this century, about 10 to 12 houses had been built on the grounds surrounding the church. Most of the population of this municipality lived scattered in the fields of Coamo.[2] In 1776, it was granted the title of Villa with Cabildo, Justice, and Regiment. A century later, Coamo had 32 houses and a beautiful promenade with the church, and the two hermitages forming the urban area.

> "On the same plane as the village, there is a beautiful promenade in the shape of a triangle: in one corner is the parish church; in the other two, there are two beautiful hermitages dedicated to Our Lady of Balbanera, one and the other of Our Lady of Altagracia. The neighborhood, which is composed of 480 families, with 4,317 souls, is divided at a great distance into four parts: one has its haciendas in the mountains of Laivonito; the other three parts live in Salinas, Juana Díaz and Coamo de Abajo on the seacoast. The climate of this town is healthy and temperate. Their lands are for the most part poor; their goods consist of cattle, coffee, some portion of tobacco, and corn, all of which are passed out of the country, with the timber of their mountains."[3]

---

[1] Fernández Méndez: 1981:133

[2] http://www.coamo.puertorico.pr/historia_sigloXIX.html

[3] Abbad y Lasierra, Iñigo, Historia Geográfica, Civil y Natural de la Isla de San Juan Bautista de Puerto Rico, Río Piedras: Editorial Universitaria, 1966. Page, 114.

By 1770, Coamo was the largest producer of coffee on the island. During the eighteenth century, the number of houses in the urban area of Coamo increased. These houses were built mostly of round or rustic wood, water, and straw. Later, they were also made of sawn wood of the country or palm planks or "tablaestilla". They covered the houses with terracotta tiles. Very few houses in this century were built of masonry. The more affluent people built their houses on high shelves that looked more like dovecotes. In Ramón Rivera Bermúdez's 1784 plan of Coamo, two structures can be seen in the general area of the project under consideration. This 1784 map clearly shows the José I. Quinton Street as the *Main Street* of the town.

Figure 5: Coamo Urban Center in 1824.[4]

At the beginning of the nineteenth century, the town of Coamo was about three leagues from the south coast of the island. The jurisdiction of the Coamo extended as far as the beach. The urban Coamo consisted of 38 houses and 12 huts in the village and 377 houses and 17 huts in the countryside. In 1824, some 40 housing structures made up the urban center of Coamo (Figure 5). The agricultural industry detailed 23 wooden mills and a coffee mill; they had 50 cuerdas planted with cane and 114,000 feet of coffee. Cattle raising and agriculture constituted the main industries of this party. In 1824, agricultural production reached 150 quintals of sugar, 3,400 quintals of coffee, 15 quintals of tobacco, 288 quintals of rice, 439 bushels of corn, and 288 quintals of rice...[5] During the 19th century and the first half of the 20th century, Coamo developed as an eminently agricultural and livestock municipality. The main agricultural products were coffee and tobacco. By 1876, there were about 158 *estancias* where coffee, tobacco, and corn were grown. By the end of the 19th century, Coamo had a population of 15,144.

The urban center of Coamo began to develop around José I. Quintón, Mario Braschi, Barbosa, Ruiz Belvis, Sol, Santiago Veve, and Florencio Santiago Streets. Although during the seventeenth and eighteenth centuries, other Caribbean economies experienced periods of prosperity with the development of plantations on the island of Santo Domingo and the French colonies, by the mid-1700s, they enjoyed a period of great boom in their agricultural-based economies. In 1755, for the first time in Puerto Rico, coffee was planted on the island, and this important event began in the district of Coamo. In the case of Puerto Rico, it was not until the nineteenth century that large-scale agricultural economic activities began to develop. This economic boost, in turn, led to the growth and adornment of the island's urban settlements. (Figure 6).

[4] Sepúlveda Rivera Aníbal, Puerto Rico Urbano, Volumen I, Page, 50.
[5] De Córdoba, Tomás: Memorias: Geográficas, Históricas, Económicas y Estadísticas, de la Isla de Puerto Rico, San Juan: Instituto de Cultura Puertorriqueña, Tomo II, 1968. Pages, 377-384.

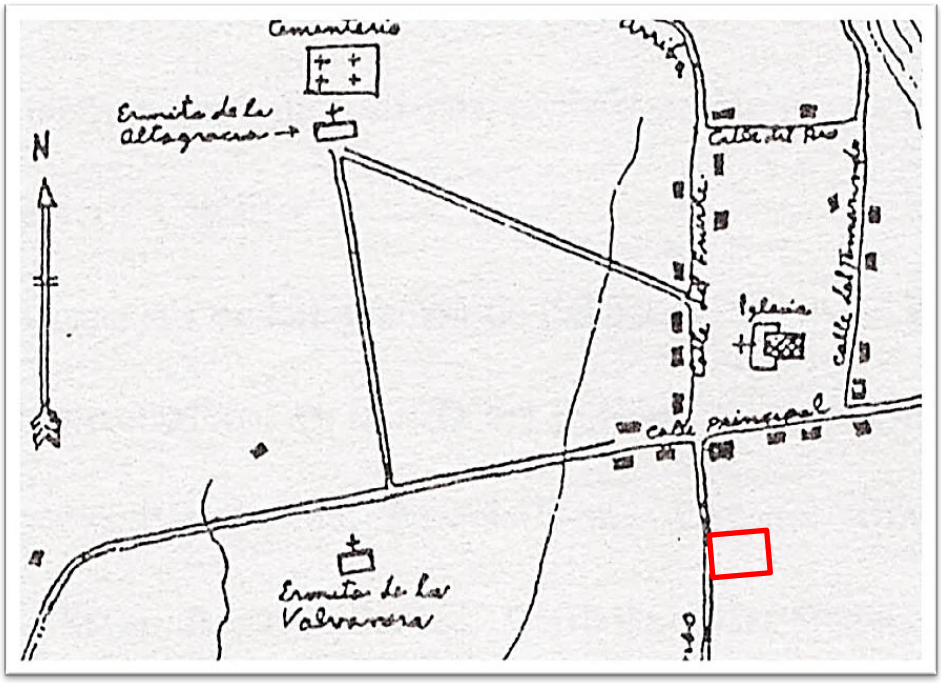


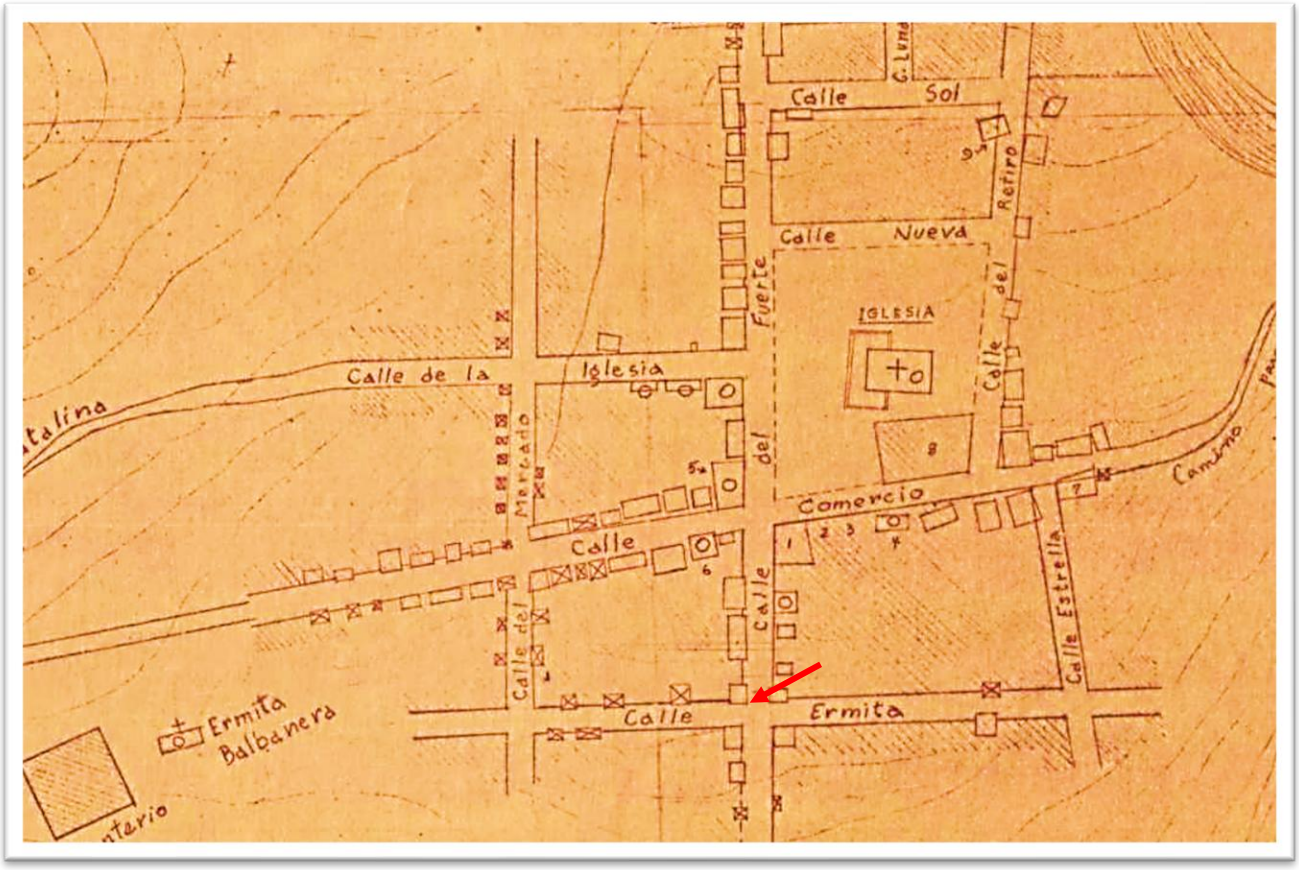

Figure 6: Detail of the Plan of Coamo in 1784. Interpreted by Ramón Rivera Bermúdez. (Approximate APE parcel in red)

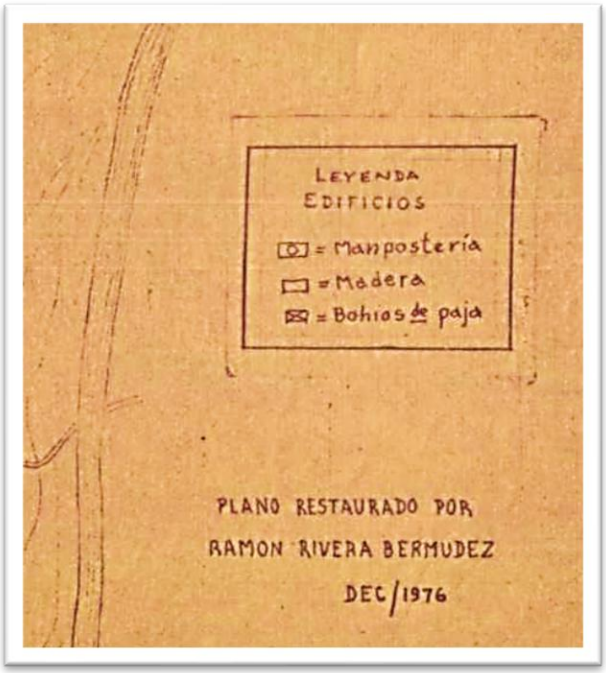
In 1824, Coamo already had 2,000 residents, 377 homes, and 17 bohios. The urban center was defined by 83 houses. By that time, there were two schools, one public and one private. Coamo's economy revolved around cattle ranching and agriculture (coffee, tobacco, and minor fruits). By 1866, the construction of the Central Road from San Juan to Ponce was completed. The new Central Road facilitated considerable inland transportation to the area of Coamo and became a stimulus to economic progress. This economic boom boosted urban development.[6] At the end of the 19th century, the urban area of Coamo had around 500 masonry and wooden houses, and 100 bohios. The population increased from 2,000 in 1824 to 15,000 by the end of the century. Coffee cultivation had spread to the neighborhoods of Coamo Arriba and Hayales. During the nineteenth century, cattle ranching and coffee cultivation became the most important economic activities of Coamo. It was also during the second half of the nineteenth century that the urban development of the town of Coamo intensified.

In 1870, the streets were laid out by the surveyor Augusto Brachi (Figure 7). The urban development of Coamo was impelled by Spain's economic reforms and the construction of the central road in 1872.[7]

[6] http://vv.komomal.com/historia.hatma
One league = 5.57 kilometres
[7] Escala, Samuel Corchado Arquitectos. Page,. 3.

Figure 7 (a and b): Section of the plan showing the Coamo Egidos in 1870 by Agronomist Augusto Braschi, restored by Historian Ramón Rivera Bermúdez in 1976.[8]




In this 1870 plan, a small house structure is observed on the corner of Calle del Fuerte (today Calle José Celso Barbosa) and Calle Ermita (today Calle Florencio Santiago). In the Plan legend, the house is identified as a wooden house. This house possibly corresponds to the first structure built on the parcel under assessment. In this Coamo urban block, in 1870, there were seven wooden structures, two masonry structures, and a small straw hut in Ermita Street.

The small house has a rectangular floor plan, and its location was somewhat inconsistent with the alignment of Calle del Fuerte. Probably, this little house was built on wooden ***socos***, which were the typical construction system of modest house structures at that time in Coamo.

[8] https://coamo.net/Graficas/Pueblo1870.jpeg

Except for the Support System or *Soqueria*, these criollo houses leave little archaeological record on the ground where they are built. The house in the 1870 plan is not the same house seen in the 1936 aerial photo. The structure documented in 1936 was the residence of the Bengoa-Rivera family.

At the end of the nineteenth century, the economic increase and the improvement of the construction of warehouses and commercial buildings along José I. Quintón Street. transformed the urban center into an important regional commercial center, favoring the Street.[9] The commercial boom, in turn, attracted permanent residents to the urban area of Coamo. (Figure *8*).

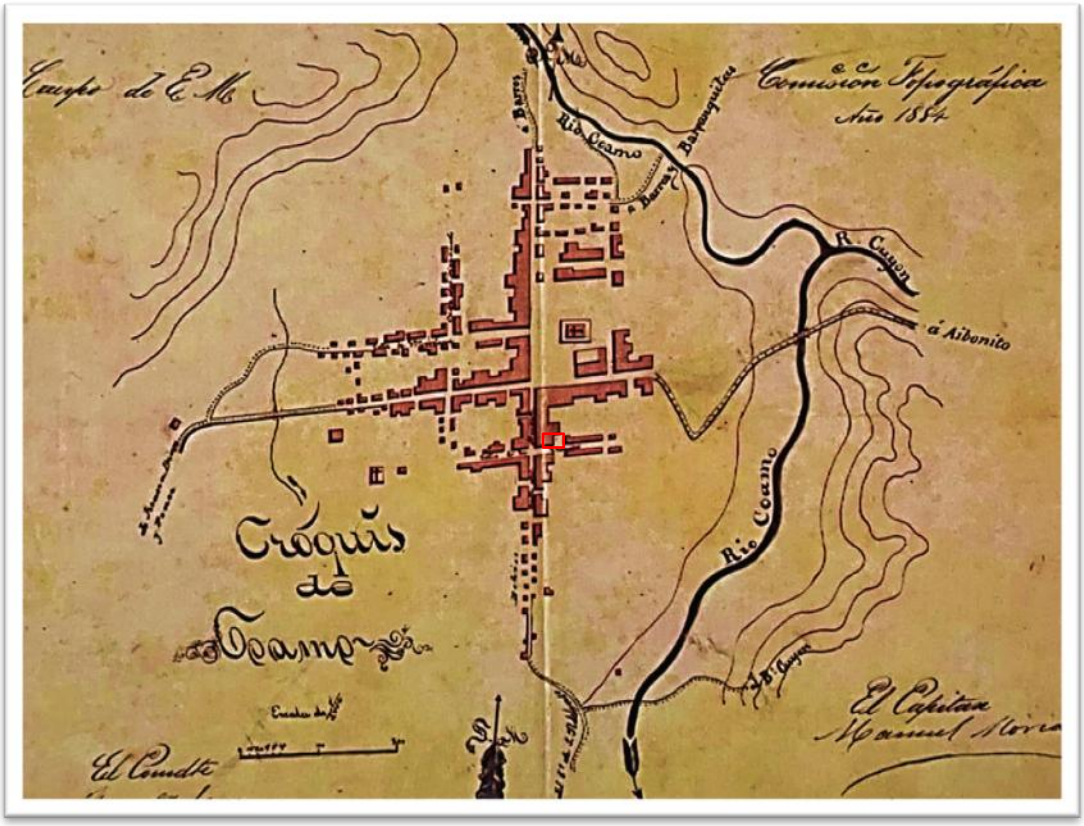



Figure 8: Sketch of Coamo, 1884. Corps of Military Engineers. Francisco Larrea y Liso.

Manuel Moriano y Vivó.[10] The area of the APE is observed to be occupied by a structure. At the beginning of the 20th century, with the construction of the Aqueduct, the Power Plant, and the widening of the streets, the urban grid that we recognize in today's urban Center of Coamo was formed. By 1900, about 600 houses formed the urban area, 20% of which were thatched huts and yaguas houses. At this time, about 60 houses were built in masonry and wood-roofed in tejamani

[9] Ibid., Page 3.
[10] Sepúlveda Rivera, Aníbal, Puerto Rico Urbano, Vol. 3. San Juan: CARIMAR, 2004. Page 155.

or zinc sheets.[11] In the mid-20th century (1950s), urban growth had surrounded the traditional urban center of Coamo. After the 1950s, the urban growth turned first to the South and then to the West of the traditional urban core, and the beginning of urban expansion towards the periphery of the Traditional Urban Center followed.[12]

This expansion toward the periphery continued during the 1950s, 60, 70, 80, 90, and 2000 when the occupation of the Urban Center of Coamo intensified and extended to the peripheral areas. Aerial photographs of 1937, 1977, and 2010 show the development of densification of housing in each urban block and the addition of urban blocks in a south and west direction. As stated in the analysis of the architect Samuel Corchado, from 1964 forward, projects under the concepts of *Modern Architecture* greatly impacted the urban area of Coamo. These Modern residential projects became part of the traditional layout of the Urban Center, fracturing the context of the Coamo Historic Zone.[13]

The historical overview shows that the sector under evaluation began to develop in the second half of the nineteenth century. The urban parcel on #26 Florencio Santiago Street, corner with Dr. José Celso Barbosa, was produced between 1870 and 1930 (See Figures 7 and 8).

## IV. Project APE Historical Synopsis

The project parcel is part of the urban block in front of the Main Square and, therefore, is part of the Coamo Traditional Urban Center (TUC). The cartographic analysis evidences that the project parcel was already integrated in 1884 as part of the urban block south of the Public Square of Coamo (See Figure 7). Nevertheless, the Coamo Property Registry validates that this urban plot remained unoccupied until 1905. In a 1937 aerial photo, a residence is observed on the project parcel. This house presents an L-shaped plan ( Planta de martillo) (Figure 9). This criollo house covers much of the parcel area. According to evidence, a single-story wood structure had a balcony facing west toward Calle José Celso Barbosa. This "criollo style" wood house was demolished in the mid-1940s. A second house was built in this parcel, which was also demolished in the mid-1990s. According to information collected in the locality, later a second small accessory structure facing south to Calle Florencio Santiago was constructed on the site. In summary, there's evidence of three houses built and demolished on the project parcel between 1870 and 1990 (Figure 10).

According to the notarized document of sale prepared by the municipality of Coamo, the property under evaluation is not registered in the Property Registry. However, the Coamo municipality documents supply this property information:

[11]State Office of Historic Preservation, The Architecture of Coamo. 1996. Page 11.
[12]Escala, Samuel Corchado Arquitectos, Page 3.
[13] Ibid., Page 4.

*Rústica:  Plot located on Dr. Barbosa Street, corner Ermita Street, today corner Florencio Santiago Street of this town, situated in the estate number 1049, owned by the Municipality of Coamo, Puerto Rico, with a surface area of 445.54 square meters, with borders to the West: with 18.85 meters, which is its front to the before mentioned street; to the South: with 23.05 meters, in limits with the plot of Ermita Street, today Florencio Santiago Street; to the East: with 19.23 meters, in borders with Borelli succession that is the bottom of the plot and to the North: with 23.03 meters, with plot of the house of Succession Borelli Patrón*

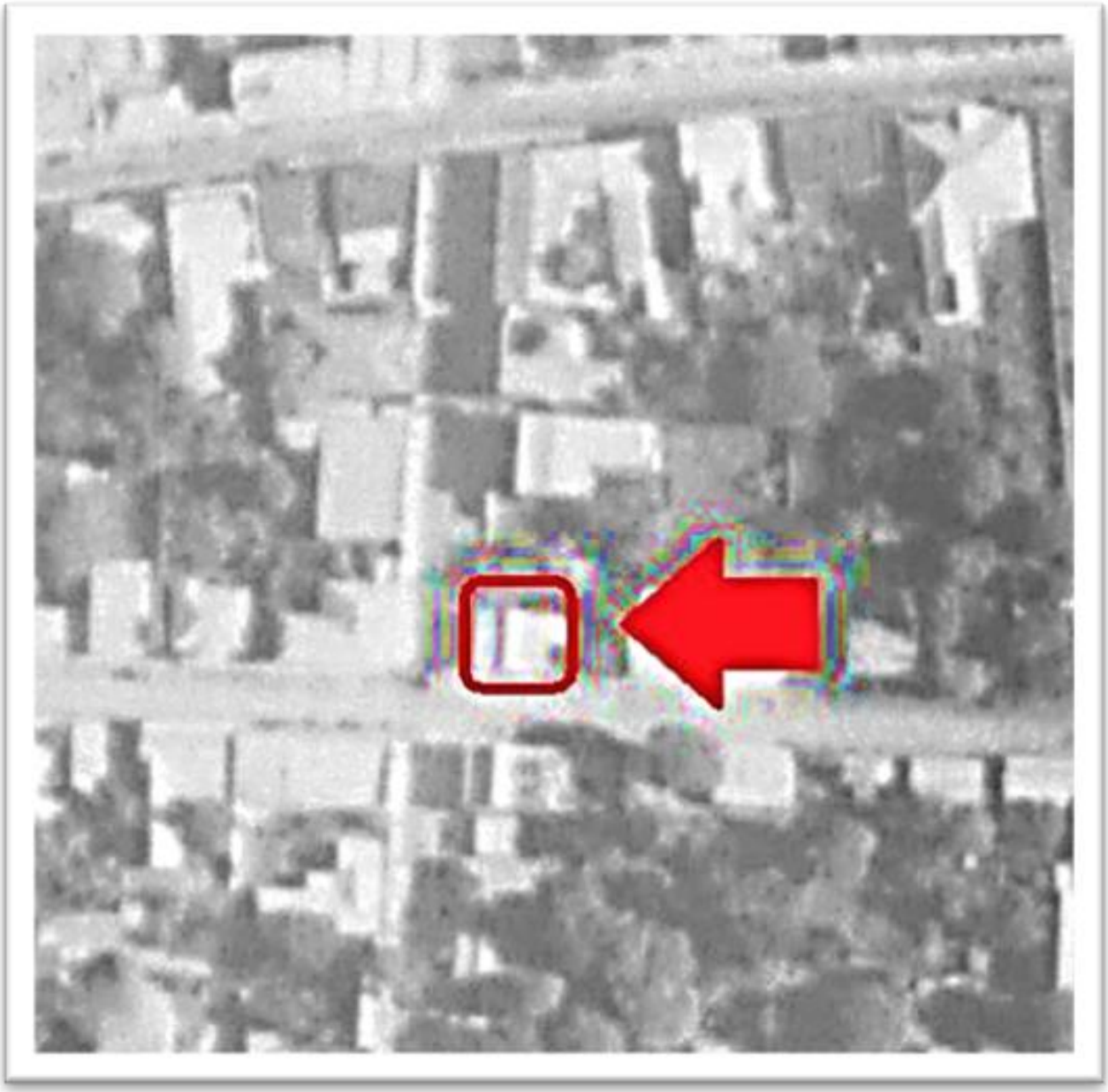
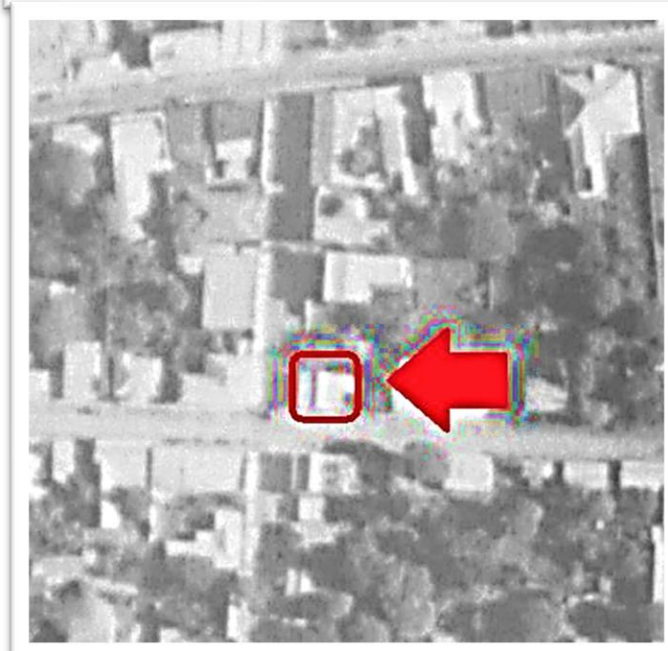


Figure 9: Aerial photograph of 1937. DTOP Photogrammetry.

Figure 10: Urban development sequence of the parcel under analysis.

*1870*

*1937*



*1958*

## V. Phase II Fieldworks

Phase II fieldwork began on Monday, March 10, 2025, and ended on Thursday, October 20, 2025. Following the Work Plan approved by PR-SHPO, the asphalt layer was removed to free the areas planned to establish the Excavation Units. The asphalt removal work was conducted on Monday, March 10, using heavy machinery (digger). The asphalt layer was removed from most of the parcel. The asphalt material was collected and removed from the project plot to an area previously assigned by the Municipality of Coamo. A section of the asphalt under the Galvalun structure was removed to allow access to the ground. The asphalt area removed under Galvalun's roof was constrained to the section where the machine's arm reaches. All the material removed by the heavy machine was also removed from the plot.

The manual cleaning process began in the area where it was proposed to establish the five excavation units of 1 meter by 1 meter. Based on the Phase IA results, the units were located where the possibility of detecting elements or vestiges associated with the houses that once existed on this urban plot could be found. Fieldwork starts in the northeast corner of the parcel, with the expectation of identifying the domestic garbage dump of the houses. The areas of the backyards, at a distance from the houses, were commonly used for domestic garbage dumps.

Unit Number 1

The surface of Unit Number 1 was manually cleaned and located one meter from the boundary fence to the east and half a meter from the northern boundary fence. Unit Number 1 was worked on Thursday, March 13, 2025. The first 20 cm level shows fragments of domestic garbage materials mixed with brick fragments. The 20 to 40 cm level produced the same results as the first level, however, the frequency of domestic materials decreased. The same happened on the 40-60 cm level. At the 60 to 80 level, no materials were recovered. All material excavated was sifted using a 1/4-inch mesh. The result of this unit indicates that this corner was not a domestic garbage dump in situ. The domestic materials were mixed with brick fragments and stones. Unit 1 reveals that this section of the backyard area was filled with material containing some domestic garbage mixed in filling that contained bricks and coal fragments. The fill in this area was deposited in different actions, and the domestic materials in the fill are not “in situ”. Unit 1 stratigraphy showed, at least, four different filling layers. Layer 1 extends from 0 to 15 cm and contains small fragments of domestic ceramics, a small fragment of glass, some nails, and metal fragments. This first layer is composed of silt-sandy soil 10YR3/3 Dark Brown. A second fill layer of sandy soil is observed between 15 and 20 cm deep. This layer is composed of sand 10YR 4/4 dark yellowish Brown. Both layers, Layer 1 and Layer 2, contain small fragments of household garbage mixed with abundant brick fragments, coal, and some stones. The domestic materials observed in these two layers belong to the late nineteenth and early twentieth centuries. The fragmentation of the historical materials shows that they do not form a domestic garbage dump deposit "in situ", the

materials are mixed with different backfill substrates. Layer 3 is 20 to 30 cm deep and contains similar materials less frequently than layers 1 and 2. Layer 3 is a sandy silt substrate 10YR3/2 very dark gray Brown. Layer 4 extends from 30 to 60 cm deep, no cultural materials were recovered at this level. Layer 3 is a silty soil substrate 7.5 Y/R 2.5/2 very black Brown. This layer has the characteristics of being the natural soil of this urban parcel. Unit 1 was negative

Unit Number 2

Unit Number 2 was located in the patio area where sanitary infrastructure is visible. The purpose of this unit is to detect the old house latrine. The modern sanitary system is located in the Southeast corner behind the existing wood and cement structure. This area was used to establish at least two sanitary service areas. Two toilet pipe intakes can be seen on the surface. For this reason, Unit 2 was moved to the West alongside the wood and cement structure, 6.90 meters from the East boundary. On Friday, March 14, work began on Unit 2. In the first level, 0-20 cm, abundant fragments of bricks were recovered. On the second level, from 2-40 cm, the number of fragment bricks increased, and two complete bricks and a big river stone of 17 cm in diameter were recovered. At 40 cm depth, the soil is very compacted, like a remnant of an earth floor. The excavation of Unit 2 ended at 40 cm to protect the earth floor remnant. This remnant was cleaned to define it better. At this point, it was decided to extend Unit 2 one meter to the West to document the agglomeration of construction materials observed in that area of the Unit. In the southeast corner of Unit 2, the excavation goes down to 40-60 and 60-80 cm. These two levels were free of materials and negative for cultural remains. At 38 to 70 cm, a clayey silt soil 10 YR 2/1 Black is identified. This soil appears to be the natural soil of this area and extends under the existing wood and cement structure in the southeast sector of the property.

An extension of Unit 2 was established to the west, and the 0-20 cm level began to be excavated. At this level, the amount of brick fragments and whole bricks increased. As the extension of Unit 2 is excavated, an agglomeration of construction materials, bricks, cement fragments, and river stones is observed. Two complete bricks were recovered from this level, and the construction material conglomerate shows two complete, fragmented bricks. The appearance of this construction materials conglomerate suggests that a structure of bricks, cement, and river stones was demolished or partially demolished, and the remnants of this demolition were gathered in this parcel area as waste material.

Unit 2 and Extension Unit 2 show three different levels of soil between 0 and 38 cm. The first layer is clay silt soil 10 YR 3/4 dark yellowish Brown that extends from 0 to 4 cm. The second layer is clayey soil 10 Y/R 3/3 Dark Brown. This second layer extends from 4 to 30 cm. A third layer is a Loamy-sandy soil 10 Y/R 3/2 Very dark grayish brown that extends from 30-38 cm, from 38 to 70 cm, a clayey silt soil 10 YR 2/1 Black was identified. Unit 2 and the Extension of Unit 2 were positive.

Unit Number 3

Unit 3 was located in the area of positive boring C-2 during Phase IB. Unit 3 obtained negative results for the materials or vestiges of cultural value. Unit 3 was excavated in three levels of 20cm, 0-20, 20-40, and 40-60cm. At a depth of 60 cm, a borehole was dug in the southwest corner to reach the level of 60-80 cm. Unit 3 was negative for materials, cultural deposits, or structures "in situ". Unit 3 presented three layers or stratigraphic levels, the first layer begins with the cement slab of the wood and cement structure located in the southeast corner of the plot. This first layer extends from 0 to 8 cm deep, which is the thickness of the cement slab that forms the floor of the structure. The next layer is the base of the cement floor, which is formed by a sand fill (topping), color 10 Y/R 5/6 yellowish brown. This layer extends 8 to 10 cm deep. The third layer of soil is made up of a sandy silt substrate 10 Y/R 4/3 Brown color. The third layer extends up to 80 cm deep. Unit 3 was negative.

Unit Number 4

Unit 4 was located near boring negative B-2 during Phase IB. Unit 4 was moved to the West of Boring B-2, looking for remnants of the two structures built on this parcel. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60. The first stratigraphic layer is 0 -7cm. consist of “caliche” filling. The second stratigraphic layer is 7- 40 cm, a clayey silt soil 10 Y/R 3/3 Dark Brown. The third layer of soil of 40-60 cm, is a clay silt soil 10 Y/R 2/2 very dark Brown. Unit 4 obtained negative results due to the presence of cultural materials or vestiges of constructive system remains, or “Socos”, that support the houses built on this parcel. Unit 4 was negative.

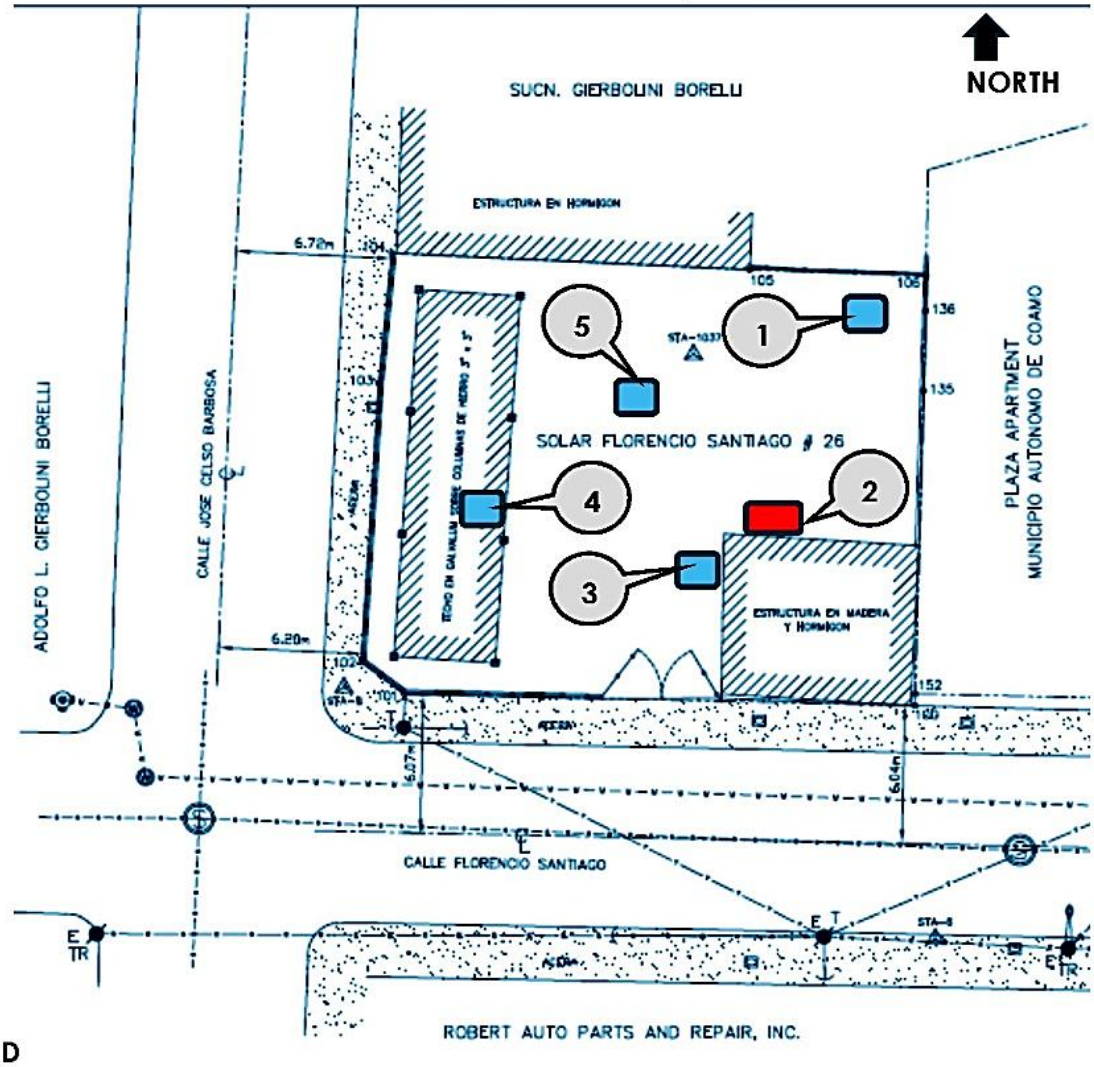
Unit Number 5

Unit Number 5 was located in the North area in the central zone of the parcel near negative boring B-3 during Phase IB, 5.20 meters from the North boundary and 5.62 meters from the West boundary. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60.

The purpose of this unit was to verify the remains of the “Socos” that support the houses built on this parcel. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60. The results of this unit were negative to the evidence, cultural materials, or remains of the construction system of the houses. Unit 5 was negative.

**Figure 11: Phase II Excavation Units Plan**

Archaeological Excavation Units. Phase II Report for PR-CRP- 000145
"Proyecto Residencial Comercial Pisos de Coamo"
FS26 - SHPO 03-08-21-04.
Scale: 1:100 Mts. Source: Proponent.




## LEGEND

**Unit No. 1**
Location: 0.60 mt south from north property line and 1.00 mt east from property line. Negative.

**Extended Unit No. 2**
The Unit consist of 2.00 mt length and 1.00 mt width. Location: North side of existing reinforced concrete and wood property. Located at 6.90 mts from eastern property line. Positive.

**Unit No. 3.**
Location: 0.60 mt south from northwestern side of the existing concrete and wood property corner. Negative.

**Unit No. 4.**
Location: 4.72 mt from west side of property line and 7.92 mts from South side property line. Negative.

**Unit No. 5.**
Location: 5.62 mts from west property line and 5.21 mts from north side property line. Negative.

Table 1: Units Datun Point Coordinates

| Unit Number | Quadrant | Location | Coordinates of the Northwest Datun Point of each Excavation Unit |
|---|---|---|---|
| Unit 1 | Northeast | Parcel Northeast quadrant | 18.079445 N, 66.356678 W |
| Unit 2 and Extension Unit 2 | Southeast | Parcel Southeast quadrant | 18.079394 N, 66.356665 W |
| Unit 3 | Southeast | Parcel Southeast quadrant | 18.079361 N, 66.356722 W |
| Unit 4 | Southwest | Parcel Southwest quadrant | 18.079393 N, 66.356811 W |
| Unit 5 | Northwest | Parcel Northwest quadrant | 18.079462 N, 66.356809 W |

**Fieldwork Photographs**

Photo 1: Parcel initial conditions.

Photo 2: Parcel initial conditions.

Photo 3: Parcel initial conditions.

Photo 4:Parcel initial conditions.

Photo 5: Removal of asfaltat pavement process.

Photo 6: Removal of asphalt pavement process.

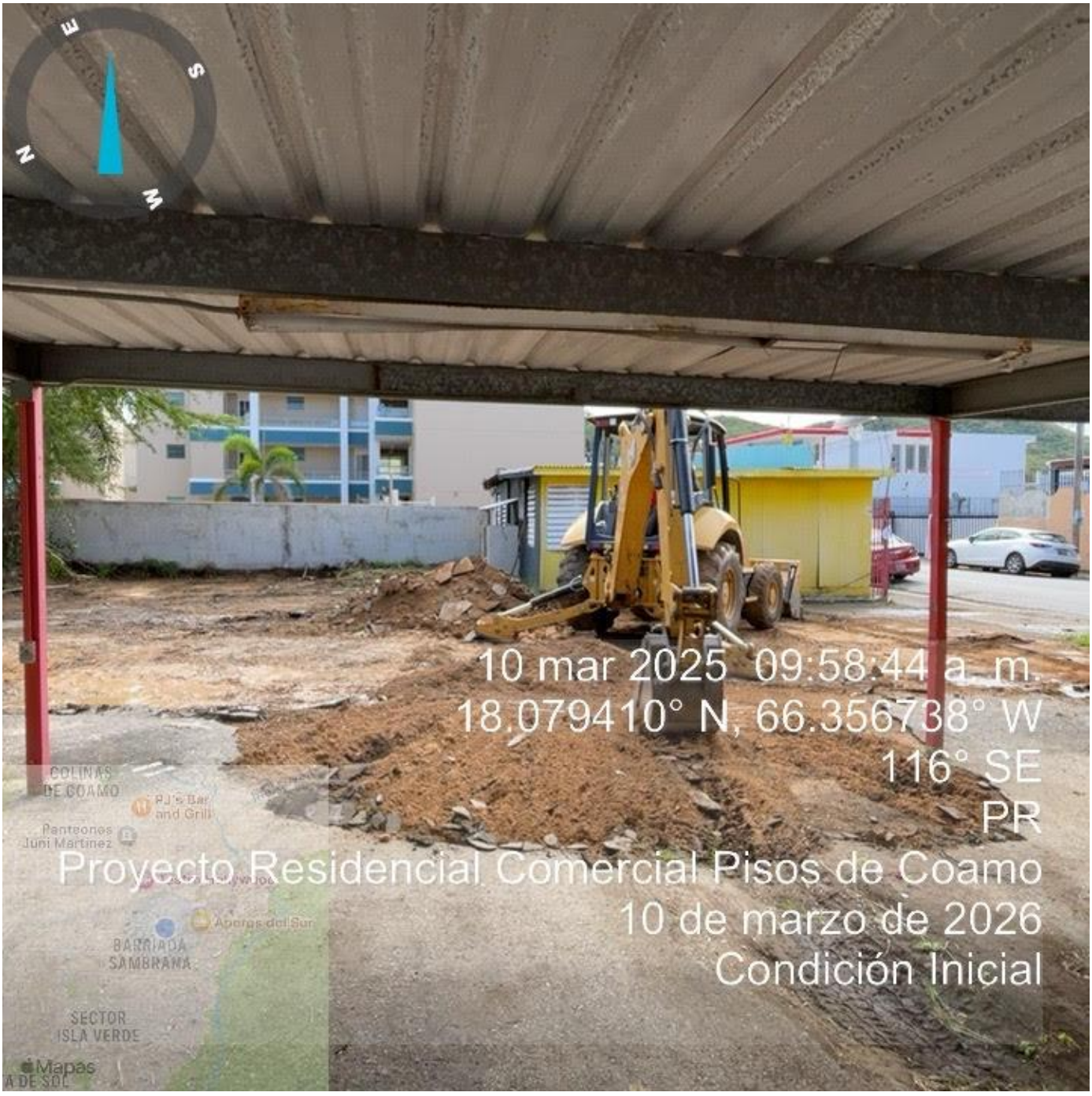


Photo 7: End of the pavement removal process.

Photo 8: End of the pavement removal process.

Photo 9: End of the pavement removal process.

Photo 10: Start of works on Unit 1. (Northeast quadrant)

Photo 11: Unit 1, 0 to 20 cm. West to East view.

Photo 12: Unit 1, 20 to 40 cm. East to West view

Photo 13: Unidad 1: Perfil pared Norte South to North view.

Photo 14: Unit 2, 0-20 to 40 cm.

Photo 15: Unit 2,  2 0 - 40 cm.

Photo 16: Unit 2, cleaning of the building materials conglomerate.

Photo 17: Unit 2 and Extension of Unit 2, 0 to 40 cm. Compacted soil.

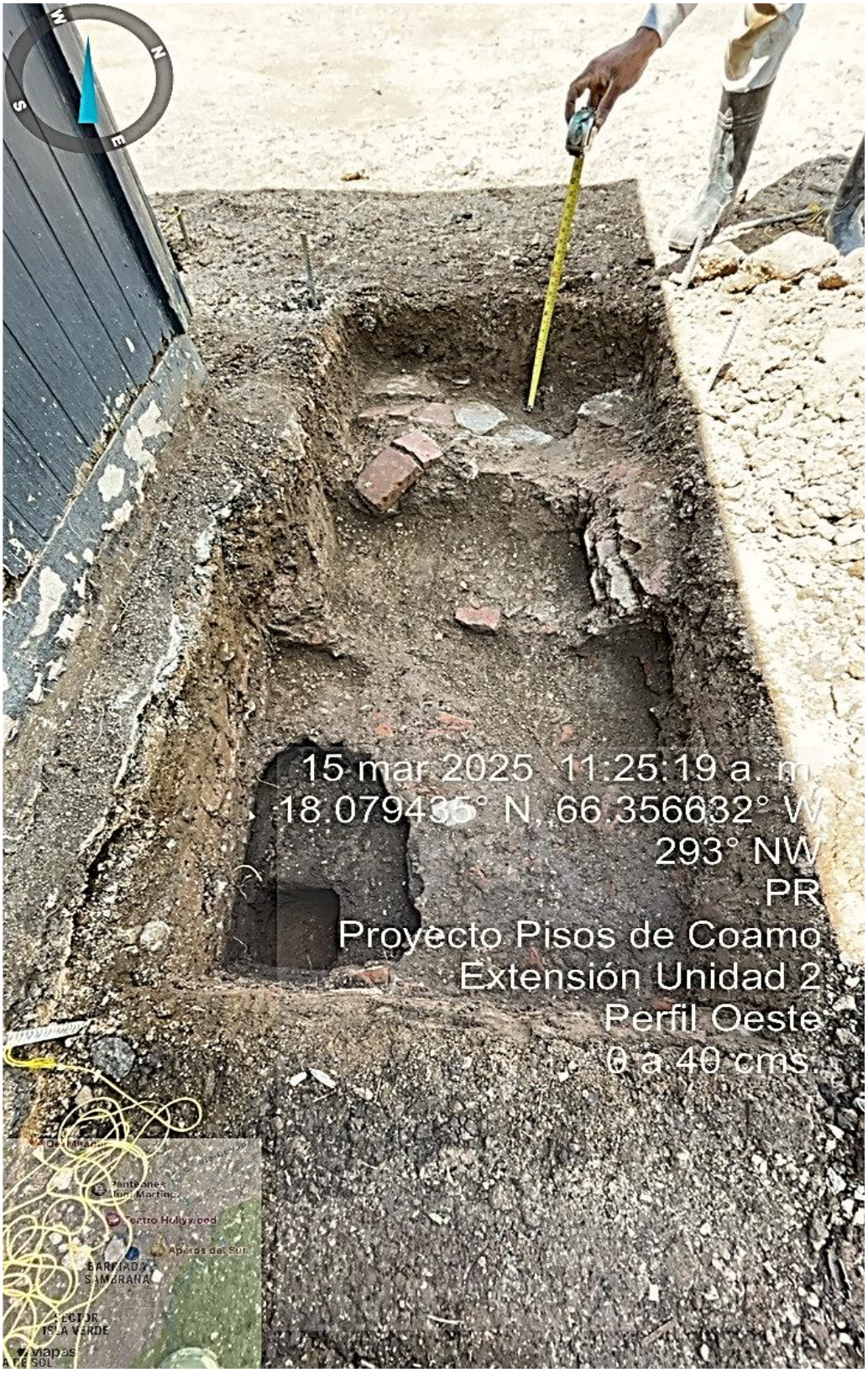


Photo 18: Unit 2 and Extension of Unit 2, 0 to 40 cm,  conglomerate of construction materials.

Photo 19: Unit 3 (1 m X 1m ) 0-20 cm. Fill layer.

Photo 20: Excavation Unit 4, 40- 60 cms. In the center-west of the parcel.

Photo 21: Unit 4 was located in the center west of the plot, under the metal structure.

Photo 22: Excavation Unit 5. In the center-north of the parcel. Filler layers.

## V. Phase II research process

Phase II field research was conducted based on three aspects: 1) The results of Phase IB, 2) The Phase II Work Plan approved by PR-SHPO, and 3) The porpused for testing the four quadrangles of the parcel to cover all sections of the general area of the APE, at least with one Excavation Unit. In this way, we can affirm that Unit I was established in the northeast quadrant, Unit 2 and 3 were established in the southeast quadrant, Unit 4 was established in the southwest quadrant, and Unit 5 was established in the northwest quadrant. The results of the excavation process confirm that the northwest and southwest quadrants of the parcel were negative in Phase IB and in Phase II. In the northwest and southwest quadrants, no elements of cultural value were detected. In these quadrants, the ground is covered by a layer of asphalt. Under the asphalt, there is a layer of caliche fill. Under the caliche, there is a layer of fill (10 YR 3/3 Dark brown) composed of sandy silt soil, and under this layer of fill is the natural soil of the parcel, composed of clay silt (10 YR 2/2 very dark brown).

On the northeast and southeast quadrants, there is a layer of fill that contains abundant fragments of brick. In Unit 1, the fill was deposited in several actions and contains, in addition to the brick fragments, domestic materials, coal, and some stones mixed with the fill. This unit is considered negative since the materials are mixed within the fill layers with no evidence of cultural integrity.

On the other hand, the Southeast quadrant presents some possibilities of containing evidence of an underground structure. Two units were located in this quadrant, Unit 2, which tested positive for a tamping of earth and an agglomeration of construction materials. Inside the conglomerate, two entire construction bricks were recovered with evidence of lime and sand mortar still adhered, similar to the materials used in colonial latrines to facilitate the percolation of liquids. The construction materials were piled up in this area of the APE parcel as an indication of the possible demolition or partial demolition of the colonial structure. probably a latrine or “pozo filtrante”. The remains of the demolition persisted and were deposited in this area. The APE parcel southeast quadrant is mostly covered with wood and cement structures, making it impossible to conduct an archaeological investigation in this sector.

Photo 23: Bricks with sand and lime mortar recovered from the Extension of Unit 2, 20-40 cm..

Figure 12: Profile drawings of Units 1, 2, 3, and 4.

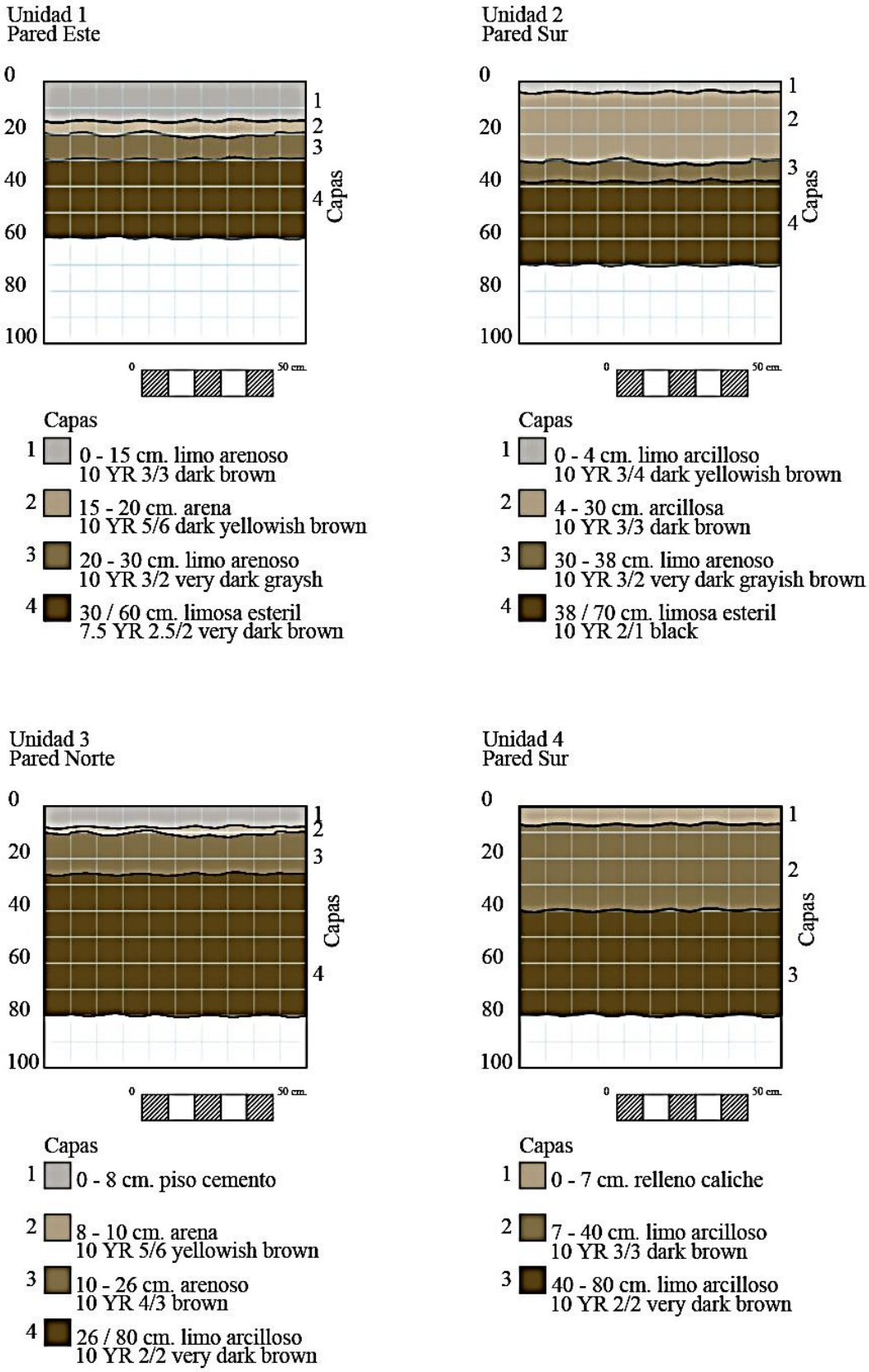
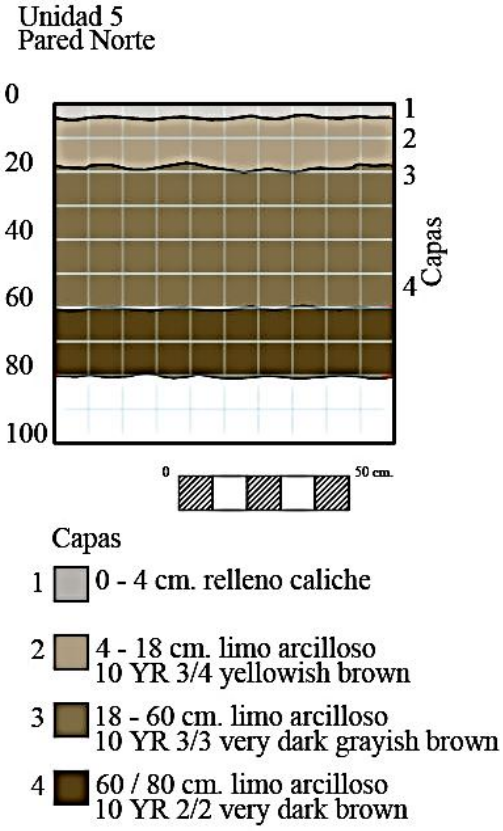
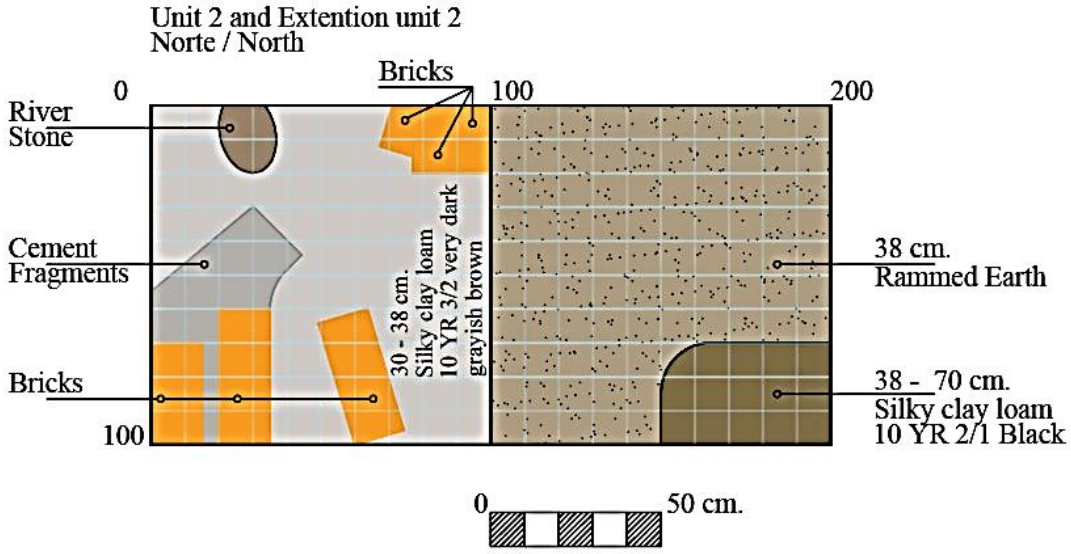


Figure 13: Profile Drawing of Unit 5 and  Drawing of  Unit 2.



## VI. Archaeological Materials

The archaeological materials recovered during the Phase II field investigation correspond mainly to construction material remains. Brick fragments, stones, and whole bricks. The archaeological materials were recovered from filling contexts. None of the materials were recovered from contexts with integrity or forming part of archaeological elements. The second category of archaeological materials recovered during the plot investigation corresponds to fragments of ceramics, glass, and metal recovered within the filling layers in Unit 1. Some coal fragments were recovered within the infill layers of Unit 1. Most of the archaeological material was recovered in Unit 1, in the first level of excavation, from 0 to 20 cm depth.

Ceramics: The set of ceramics recovered from Unit 1 is mainly made up of ceramics of white ware (16 fragments), pearl paste (5 fragments), porcelain (2 fragments), "rough clay (1 fragment), possibly belonging to a *cazuela* or *puchero*, and two small *botijuelas* fragments. Within this ceramic sample, the ceramics group is mostly associated with domestic contexts from the late nineteenth and early twentieth centuries. The botijuela fragments and the *cazuela* or *puchero* fragment can be associated with domestic contexts of the nineteenth century.

Glass: In the collection of glass fragments recovered from the first layer (0- 20 cms) of Unit 1, glass fragments were recovered. Most of these glasses correspond to translucent colored glass (24 fragments), blue tinted glass (4 fragments), amber tinted glass (4 fragments), and green tinted glass (3 fragments).

Metal: The collection of recovered metals from the first layer (0-20cms) of Unit 1consists of nails of various sizes (10), screws (4) and metal parts (3).

Bones: Two fragments of bird bones were recovered.

Plastics: Two plastic objects, a jar cap and a sewing needle container, were recovered.

Bricks: The plot contains, on the northeast side, a concentration of brick fragments mixed in the fill. The concentration of these fragments decreases in the northeast sector as it deepens in Unit 1. On the other hand, in Unit 2, the same concentration of brick fragments was detected. In this Unit 2, four complete bricks were recovered in the first two levels ( 0-20 and 20-40 cm). These bricks present evidence of the sandy mortar material adhered to the surface. They may come from a brick construction element of the late Spanish colonial period or the beginning of the twentieth century.

The materials in the filling layer point to materials associated with a domestic garbage dump from the late 19th and early 20th centuries. The amount of brick fragments and stones within this level, mixed with the described materials, indicates that the materials recovered were part of the fill deposited in this northeast area of the evaluated parcel. The materials described do not belong to an

archaeological context with integrity. Based on this evidence, in general terms, it can be affirmed that the evaluated urban parcel contains several layers of fill material between 0 and 60 cm deep. Reaching this 60 cm depth is the natural soil of the plot.

Photo 24: Miller Beer Bottle Bottom Brewing Co., Milwaukee Soplate W.F. & S This product is a pre-prohibition beer bottle. Property of Miller Brewing Co., Milwaukee. Recovered from Unit 1, 0-20 cms. deep.

Photo 25: Collection of glass fragments from Unit 1, 0- 20 cms. deep. Collection of clear, amber, green, blue, and aqua crystal fragments.

26: Fragment of a blown glass clear green bottle, Unit 1 (0- 20 cms).

Photo 27: Photo 26: Plain and decorated whiteware pottery (Center and right). Pearlware, earthenware, and porcelain fragments (Left).

Photo 28: Fragments of Olive jars (botijuelas, Unit 1, 0- 20 cms.

Photo 29: Sample of recovered metals from Unit 1, 0- 20 cms. Includes nails, screws and metal piece.

Photo 30: Sample of plastic objects recovered from Unit 1, 0- 20 cms.A plastic bottle cap and a container of sewing needles.

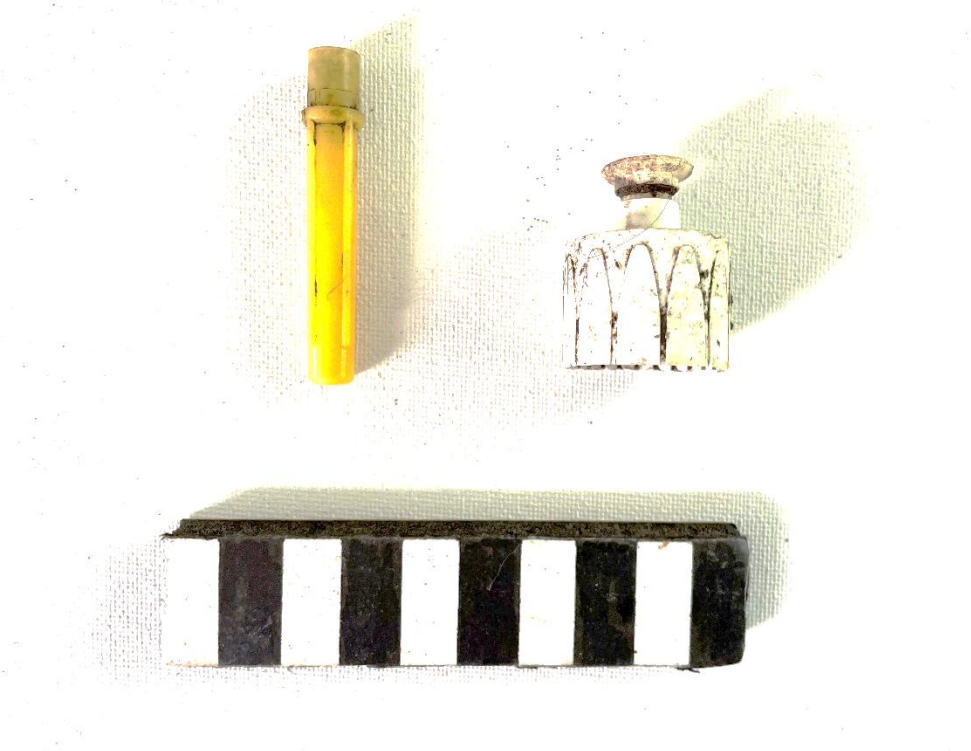


Photo 31: *Canto rodado (river stone)* recovered river stone from Unit 2, 0- 20 cms.

Photo 32: Bricks with evidence of sandy mortar material adhered. Extension Unit 2, 20- 40 cms.

## VI. Discussion of the Phase II archaeological results

Based on the results of the Phase II investigation, it can be established that in the northeastern area of the parcel, various layers of fill have been accumulated. This fill contains abundant brick fragments mixed with ceramics and glass materials associated with domestic remains, fairly crushed, and coal fragments. This fill deposit was detected near the eastern boundary of the parcel. In the West and North areas of the plot, the two excavated Units 4 and 5 were negative for historical materials or construction elements. Both Units present the asphalt layer, and the caliche filler material layer. On Unit 4, the caliche layer is 7 cm thick. Under this layer is sandy silt soil 10 YR 3/3 dark Brown up to 40 cm.. At a level of 40 to 60 cm deep, the soil is silty 10 YR very dark Brown. This silty layer corresponds to the natural soil of the plot. All the excavated levels were negative for materials or cultural vestiges.

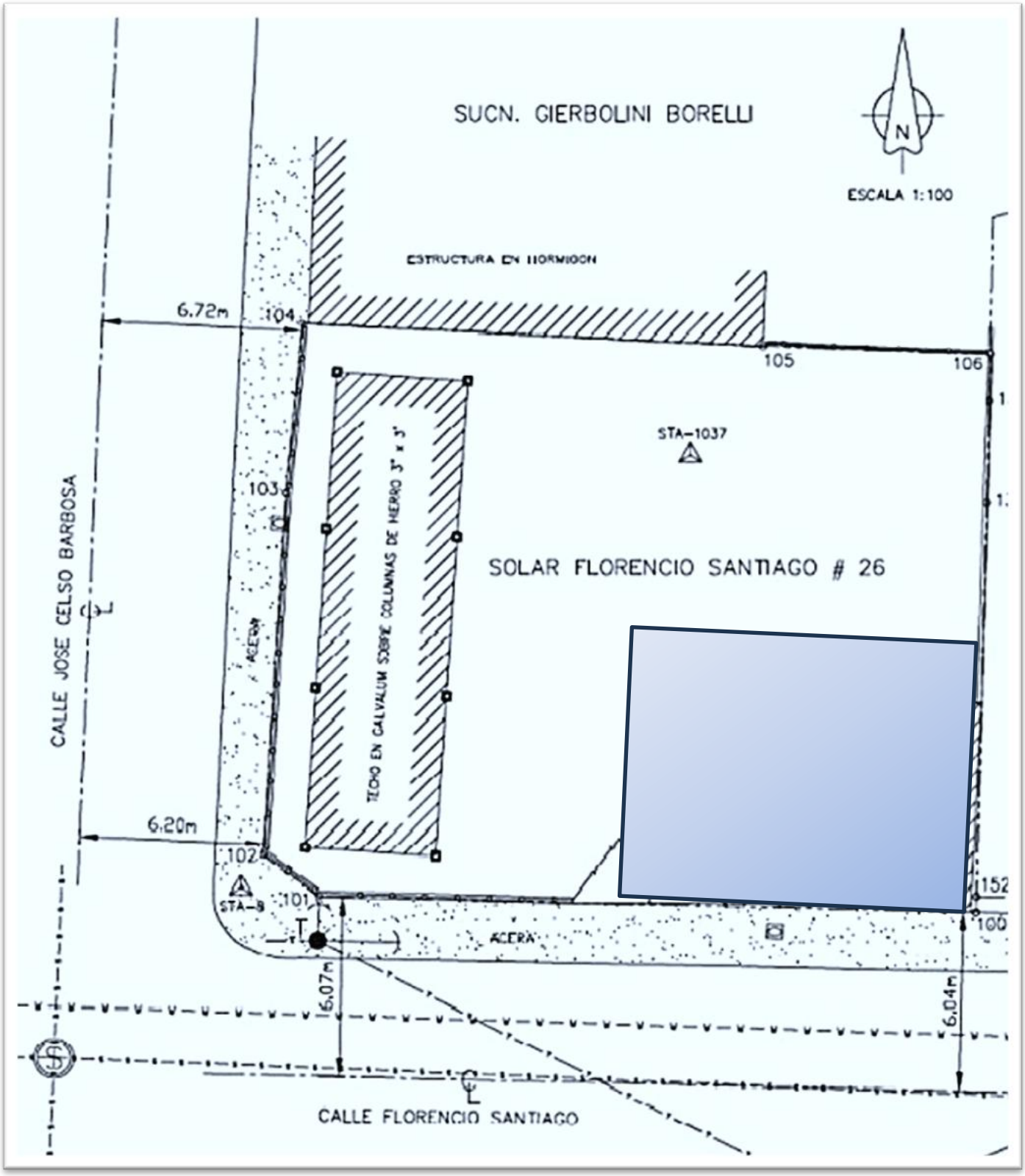
In the Southeast quadrant of the APE parcel, Units 2 and 3 were excavated. Unit 3 presents negative archaeological results from 0 to 80 cms. Unit 3 presented three stratigraphic levels. The first layer begins with the cement slab of the wood and cement structure that is located in the southeast corner of the plot. The next layer is the base of the cement floor, which is formed by a sand fill (topping). The third layer presents a sandy silt substrate 10 Y/R 4/3 Brown color. This third layer extends up to 80 cm deep. Unit 3 results are negative for cultural remains or archaeological materials.

Only Unit 2, and the extension of Unit 2, yielded positive results, evidence of tamping earth in the east side of Unit 2 and an agglomerate of colonial construction materials (4 complete bricks, brick fragments, stones, a river stone (chino de rio) and fragments of old cement material in the west side of Unit 2) were recovered. The cluster of colonial construction materials points to the demolition of a colonial structure whose residues were accumulated in this area. The research process in the southeast quadrant of the parcel is still artificially hindered by the presence of the wood and cement structure. The investigation on the Southeast parcel quadrant is limited until the wood and cement structure is removed. In this quadrant, two sanitary pipes were installed corresponding to two bathrooms inside the wooden and cement structure. The north sector of the Southeast quadrant shows sanitary infrastructure on the surface and underground. Exploring this area with sanitary pipes requires the assistance of the contractor in charge of the new project.

Based on the results of the Phase II Archaeological Investigation conducted in the APE site, no "In situ" structures, elements, or materials were identified that deserve consideration for inclusion in the National Register of Historic Places. The extension of the plot is 0.296 square miles (477 square meters), the fill layers containing brick fragments extend from 0 to 60 cms deep in some sectors. From 60 cm, the natural Loamy soil of the parcel is found.

Archaeological monitoring is recommended during the project construction, limited to the Southeast Quadrant of the parcel under evaluation. (See Figure 14)

Figure 14: Southeast Quadrant of APE Parcel recommended for monitoring during project construction



## VII. Conclusions of Phase II Investigations

Based on the results of archival, field, and laboratory research, it can be established that the parcel area under study has remained occupied by residences since the second half of the nineteenth century. The plan developed by the Agronomist Augusto Braschi, in 1870, shows the existence of a small house structure observed on the corner of Calle del Fuerte (today Calle José Celso Barbosa) and Calle Ermita (today Calle Florencio Santiago). In Brashis' plan legend, this house is identified as a wooden house. This small criollo wooden house possibly corresponds to the first structure built on the parcel under assessment.

This urban block was mainly dedicated to residential use during the 19th and 20th centuries. At the beginning of the twentieth century, a wooden residence with a façade balcony in the direction of José Celso Barbosa Street was documented. The 1937 aerial photo presents a criollo-style house with a L-shaped plan (Planta de martillo) that covers a large part of the parcel area. The courtyard of this house was located in the eastern sector of the plot. This "criollo style" wood house was demolished in the mid-1940s. Another wooden house was built in the 1950s. The 1958 aerial photo exhibits a wooden criollo-style house with a façade in direction to Florencio Santiago Street. This structure occupies less than half the parcel. In the mid-1990s, this third wooden house was also demolished. There is evidence that at least three wooden houses were built on this plot, probably all in the Creole style. The traces of the construction of this type of house are limited to the system of *soqueria* that supports the structure. This would explain the absence of remnants of elements associated with walls, foundations, or column remnants on the plot.

The empty parcel was then reutilized for a car dealer business. A metal structure was built along the west side of the plot, in the direction of Celso Barbosa Street, to accommodate the cars for sale. This structure is preserved to the present. On the southeast quadrant of the plot, a wooden and concrete structure was also added to accommodate a vegetable store. Both mentioned structures are still located on the parcel under study. In 2019, this urban parcel was purchased by the municipality of Coamo to develop a commercial residential project that would help bring residents to the Traditional Urban Center (TUC) of Coamo.

Based on the Phase II Archaeological Investigation conducted in the APE site, no "In situ" elements or materials were detected that deserve consideration for inclusion in the National Register of Historic Places. Additional archaeological investigations are not recommended for this parcel in the Northeast, Northwest, and Southwest quadrants. However, the Southeast Quadrant has not been completely evaluated due to the concrete and wood structure that still occupies this sector of the parcel. Based on the above, it is highly recommended that the project continue to its construction phase and archaeological monitoring be conducted during the demolition of this cement and wooden structure to ensure no cultural elements of archaeological value are still present in this parcel quadrant.

Archaeological monitoring is recommended during the project construction for the Southeast Quadrant of the parcel APE (See Figure 14).

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OFICINA ESTATAL DE
CONSERVACIÓN
HISTÓRICA
GOBIERNO DE PUERTO RICO

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

Monday, May 12, 2025

Lauren B Poche

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

SHPO-CF-02-13-25-01 PR-CRP-000145 (Coamo), Proyecto Residencial Comercial Pisos de Coamo FS26

Dear Ms. Poche,

We have reviewed the end of fieldwork report prepared for the above referenced project. The report is deemed acceptable. As soon as we receive the final report, we will continue with our review.

If you have any questions regarding our comments, please do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/ MB

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.

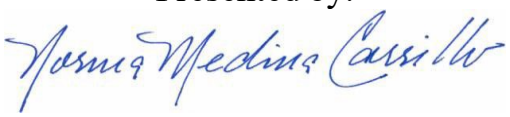
To expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

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

End of the Fieldwork Report
Archaeological Phase II Report for PR-CRP- 000145
"Proyecto Residencial Comercial Pisos de Coamo"
FS26 - SHPO-CF-02-13-25-01

Presented by:



Lapislázuli, Inc.– Norma Medina Carrillo, Ph.D #34
Corrientes Street, Riachuelo, Trujillo Alto, PR.

Submitted to:
Puerto Rico State Historic Preservation Office

April 4, 2025

**Introduction**

The "Proyecto Residencial Comercial Pisos de Coamo FS26" is a proposed initiative by the Autonomous Municipality of Coamo, aimed at revitalizing the Historic District of Coamo as part of its Revitalization Plan. The project parcel is part of the Traditional Urban Center (TUC) of Coamo. The purpose of developing this urban parcel is to construct a multipurpose residential-commercial building that will encourage the economy of Coamo and help to repopulate the Traditional Urban Center (TUC). The urban plot is at #26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street. The APE urban parcel was acquired by the municipality of Coamo in 2019 as part of the strategy for the Historic District Plan.

Initially, the project was presented to the Archaeology and Ethnohistory Program (PAE) of the Institute of Puerto Rican Culture. The Archaeology and Ethnohistory Program of the ICP required an archaeological evaluation Phase IA-IB. The IA-IB Phase Archaeological Report was presented in March 2020 (with positive results) including a recommendation for an archaeological monitory during the excavations required for the project construction. Later on, in 2022 the Autonomous Municipality of Coamo decided to apply for disaster recovery federal funds after hurricane Maria, from the Puerto Rico Department of Housing CDBG-DR City Revilitation Program (CRP). As part of the Section 106 consultation process, Puerto Rico State Historic Preservation Office (PR-SHPO) requested a Phase II Archaeological Survey II for the "Proyecto Residencial Comercial Pisos de Coamo FS26". In March 2025, PR-SHPO approved the implementation of "of the intensive archaeological survey (Phase II) work plan, dated April 22, 2024"[1], presented by Archaeologist N. Medina to the Municipality of

[1] State Historic Preservation Office. SHPO-CF-02-13-25-01 PR-CRP-000145 (Coamo). Letter, March 1, 2025.

Coamo (2022, revised in 2024).

The archaeological Phase II Field investigation was initiated on March 10, 2025, and completed on March 20, 2025. This document brings together the Phase II investigations and the recommendations of the principal research archaeologist. As established in the Phase II Proposal this report is presented to PR-SHPO for their evaluation and comments. The report contains detailed documentation and a description of the Phase II investigations. This Phase II report includes recommendations to the regulatory agency PR-SHPO related to the results of the archaeological investigation.

**Phase II Fieldworks**

Phase II fieldwork began on Monday, March 10, 2025, and ended on Thursday, October 20, 2025. Following the approved Work Plan, the asphalt layer was removed to free the areas planned to establish the Excavation Units. The asphalt removal work was conducted on Monday, March 10 using a machine excavator (digger). The asphalt layer was removed from most of the parcel. The asphalt material was collected and removed from the project plot to an area previously assigned by the Municipality of Coamo. A section of the asphalt under the Galvalume structure was removed to allow access to the ground. The asphalt area removed under Galvalume's roof was constrained to the section where the machine's arm could reach. All the material removed by the machine excavator was removed from the plot.

The manual cleaning process began in the area where it was proposed to establish the five excavation units of 1 meter by 1 meter. Based on the Phase IA results, the units were located where possibilities of detecting elements or vestiges associated with the houses that once existed on this urban plot could be found. Fieldwork starts in the northeast corner of the parcel, with the expectation of identifying the domestic garbage disposal of the houses. The areas of the backyards, at a distance from the houses, were commonly used for domestic garbage disposal.

Unit Number 1

The surface of Unit Number 1 was manually cleaned and located one meter from the boundary fence to the east and half a meter from the northern boundary fence. Unit Number 1 was worked on Thursday, March 13, 2025. The first 20 cm level shows fragments of domestic garbage materials mixed with brick fragments. The 20 to 40 cm level produced the same results as the first level, however, the frequency of domestic materials decreased. The same happened on the 40-60 cm level. At the 60 to 80 level, no materials were recovered. All material excavated was sifted using a 1/4-inch mesh. The result of this unit indicates that this corner was not a domestic garbage dump in situ. The domestic materials were mixed with brick fragments and stones. Unit 1 reveals that this section of the backyard area was filled with material containing some domestic garbage mixed in filling that contained bricks and coal fragments. The fill in this area was deposited in different actions, the domestic materials contained in the fill are not “in situ”. Unit 1 stratigraphy showed, at least, four different filling layers. Layer 1 extends from 0 to 15 cm

and contains small fragments of domestic ceramics, a small fragment of glass, some nails, and metal fragments. This first layer is composed of silt-sandy soil 10YR3/3 Dark Brown. A second fill layer composed of sandy soil is observed between 15 and 20 cm deep. This layer is composed of sand 10YR 4/4 dark yellowish Brown. Both layers, Layer 1 and Layer 2 contain small fragments of household garbage mixed with abundant brick fragments, coal, and some stones. The domestic materials observed in these two layers belong to the late nineteenth and early twentieth centuries. The fragmentation of the historical materials shows that they do not form a domestic garbage dump deposit "in situ", the materials are mixed with different backfill substrates. Layer 3 is 20 to 30 cm deep, and contains similar materials but less frequently than layers 1 and 2. Layer 3 is a sandy silt substrate 10YR3/2 very dark gray Brown. Layer 4 extends from 30 to 60 cm deep and no cultural materials were recovered at this level. Layer 3 is a silty soil substrate 7.5 Y/R 2.5/2 very black Brown. This layer has the characteristics of being the natural soil of this urban parcel. Unit 1 was negative.

Unit Number 2

Unit Number 2 was located in the patio area where sanitary infrastructure is visible. The purpose of this unit is to detect the old house latrine. The modern sanitary system is located in the Southeast corner behind the existing wood and cement structure. This area was used to establish, at least two sanitary service areas. Two toilet pipe intakes can be seen on the surface. For this reason, Unit 2 was moved to the West alongside the wood and cement structure, 6.90 meters from the East boundary. On Friday, March 14, work began on Unit 2. In the first level 0-20 cm, abundant fragments of bricks were recovered. On the second level from 2-40 cm, the number of fragment bricks increased and two complete bricks and a big river stone of 17 cm in diameter were recovered. At 40 cm depth, the soil is very compacted, like a remnant of an earth floor. The excavation of Unit 2 ended at 40 cm to protect the earth floor remnant. This remnant was cleaned to define it better. At this point, it was decided to extend Unit 2 one meter to the west to document the agglomeration of construction materials observed in that area of the Unit. In the southeast corner of Unit 2, the excavation goes down to 40-60 and 60-80 cm. These two levels were free of materials and negative for cultural remains. At 38 to 70 cm a clayey silt soil 10 YR 2/1 Black is identified. This soil appears to be the natural soil of this area and extends under the existing wood and cement structure in the southeast sector of the property.

An extension of Unit 2 was established to the west and the 0-20 cm level begins to be excavated. At this level, the amount of brick fragments and whole bricks increased. As the extension of Unit 2 is excavated, an agglomeration of construction materials, bricks, cement fragments, and river stones is observed. Two complete bricks were recovered from this level and the construction material conglomerate shows two complete fragmented bricks. The appearance of this construction materials conglomerate suggests that a structure of bricks, “chinos de rio” (cobble or river stones) and lime based mortar, was demolished or partially demolished and the remnants of this demolition were gathered in this parcel area as waste material.

Unit 2 and Extension Unit 2 show three different deposits of soil between 0 and 38 cm. The first layer is clay silt soil 10 YR 3/4 dark yellowish brown that extends from 0 to 4 cm. The second layer is clayey soil

10 Y/R 3/3 dark brown. This second layer extends from 4 to 30 cm. A third layer is a loamy-sandy soil 10 Y/R 3/2 very dark grayish brown that extends from 30-38 cm, from 38 to 70 cm a clayey silt soil 10 YR 2/1 black was identified. Unit 2 and Extension of Unit 2 was positive.

Unit Number 3

Unit 3 was located in the area of positive boring C-2 during Pase IB. Unit 3 obtained negative results for the presence of materials or vestiges of cultural value. Unit 3 was excavated in three levels of 20cm, 0-20, 20-40, and 40-60cm. At a depth of 60 cm, a borehole was dug in the southwest corner to reach the level of 60-80 cm. Unit 3 was negative for materials or deposits or structures "in situ". Unit 3 presented three layers or stratigraphic levels, the first layer begins with the cement slab of the wood and cement structure that is located in the southeast corner of the plot. This first layer extends from 0 to 8 cm deep, which is the width of the slab that forms the floor of the structure. The next layer is the base of the cement floor which is formed by a sand fill (topping) color 10 Y/R 5/6 yellowish brown. This layer extends 8 to 10 cm deep. The third layer of soil is made up of a sandy silt substrate 10 Y/R 4/3 Brown color. The third layer extends up to 80 cm deep. Unit 3 was negative.

Unit Number 4

Unit 4 was located near boring negative B-2 during Phase IB. Unit 4 was moved to the west of Boring B-2, looking for remnants of the two structures built on this parcel. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60. The first stratigraphic layer is 0 -7cm consist of “caliche” (lime pebble) filling. The second stratigraphic layer is 7- 40 cm it is a clayey silt soil 10 Y/R 3/3 Dark Brown. The third layer of soil of 40-60 cm is a clay silt soil 10 Y/R 2/2 very dark Brown. Unit 4 obtained negative results due to the presence of cultural materials or vestiges of constructive system remains or “zocos” (posts or pedestals) that support the houses built on this parcel. Unit 4 was negative.

Unit Number 5

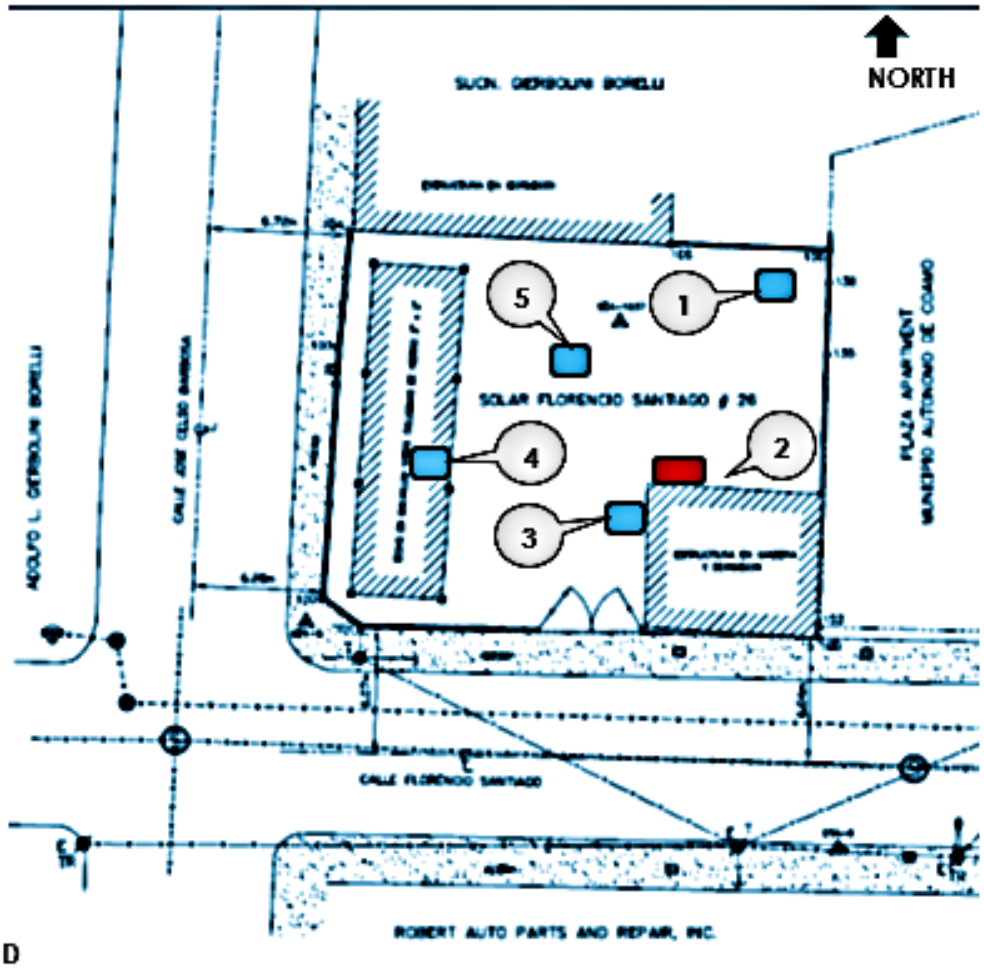
Unit Number 5 was located in the north area in the central zone of the parcel near negative boring B-3 during Phase IB, 5.20 meters from the north boundary and 5.62 meters from the west boundary. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60.

The purpose of this unit was to verify the remains of the “zocos” that support the houses built on this parcel. This Unit was negative in all the excavated levels, 0-20, 20-40, and 40-60. The results of this unit were negative to the presence of cultural materials or remains of the construction system of the houses. Unit 5 was negative.

Refer to Figure 1 and Table 1 for all explored units location and coordinates, and to Photos 1 to 21 for fieldwork photographs.

Figure 1. Location Plan of Excavation Units

Figure 1
Archaeological Excavation Units. Phase II Report for PR-CRP-000145
"Proyecto Residencial Comercial Pisos de Coamo"
FS26 - SHPO 03-08-21-04.
Scale: 1:100 Mts. Source: Architect Ilia Sanchez Arana




**LEGEND**

**Unit No. 1**
Location: 0.60 mt south from north property line and 1.00 mt east from property line. **Negative.**

**Extended Unit No. 2**
The Unit consist of 2.00 mt length and 1.00 mt width. Location: North side of existing reinforced concrete and wood property at 0.52 mt south from northeastern corner property line. **Positive.**

**Unit No. 3.**
Location: 0.52 mt from the northeastern side of the existing concrete and wood property. **Negative.**

**Unit No. 4.**
Location: 4.72 mt from west side of property line and 7.92 mts from South side property line. **Negative.**

**Unit No. 5.**
Location: 4.41 mts from west property line and 5.21 mts from north side property line. **Negative.**

1

Table 1. Datum Point Coordinates of Units

| Unit Number | Location | Coordinates of the Northwest Datun Point ofeach Excavation Unit |
|---|---|---|
| Unit 1 | Parcel Northeast quadrant | 18.079445 N, 66.356678 W |
| Unit 2 and Extention Unit 2 | Parcel Southeast quadrant | 18.079394 N, 66.356665 W |
| Unit 3 | Parcel Southeast quadrant | 18.079361 N, 66.356722 W |
| Unit 4 | Parcel Southwest quadrant | 18.079393 N, 66.356811 W |
| Unit 5 | Parcel Northwest quadrant | 18.079462 N, 66.356809 W |

Fieldwork Photographs

Photo 1: Parcel initial conditions.

Photo 2: Parcel initial conditions.

Photo 3: Parcel initial conditions.

Photo 4:Parcel initial conditions.

Photo 5: Removal of asphalt layer process.

Photo 6: Removal of cement pavement removal process.

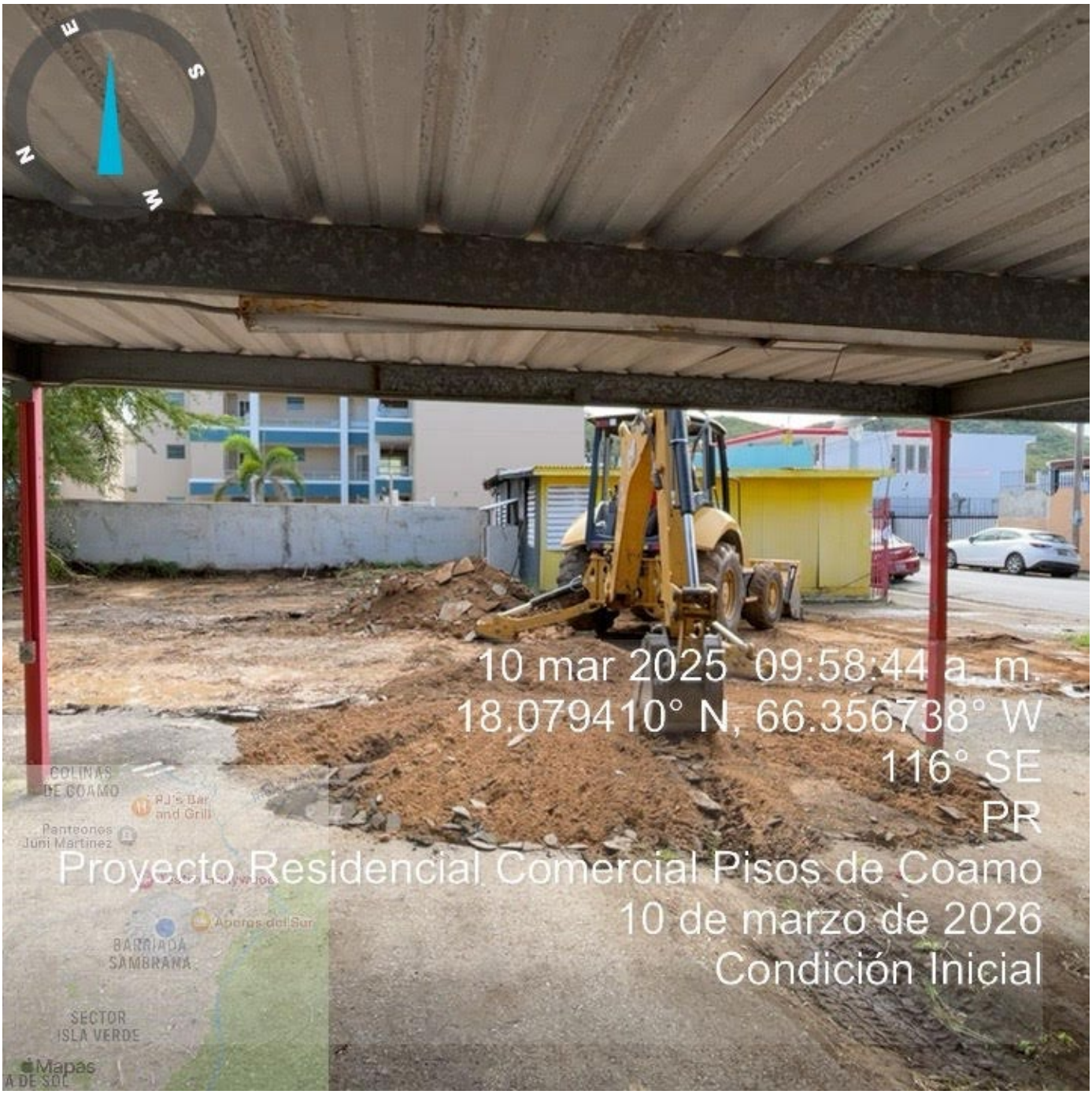


Photo 7: End of the pavement removal process.

Photo 8: End of the pavement removal process.

Photo 9: End of the pavement removal process.

Photo 10: Start of work on Unit 1.

Photo 11: Unit 1, 0 to 20 cm west to east view.

Photo 12: Unit 1, 20 to 40 cm east to west view

13: Unidad 1: Wall profile north-south to north view.

Photo 14: Unit 2, 0-20 to 40 cm

Photo 15: Unit 2, cleaning of conglomerate.of building materials

Photo 16: Unit 2 and Extension of Unit 2, 0 to 40 cm. Compacted soil.

Photo 17: Unit 2 and Extension of Unit 2, 0 to 40 cm conglomerate of construction materials.

Photo 18: Unit 3 (1 m X 1m ) 0-20 cm Fill layer.

Photo 19: Excavation Unit 4, 40-60cm. In the center-west of the parcel.

Photo 20: Excavation Unit 4. Located in the center west of the plot, under the metar Structure.

Photo 21: Excavation Unit 5. In the center-north of the parcel. Filler layers.

**Discussion of the Phase II research process**

Phase II field research was conducted based on three aspects: 1) The results of Phase IB, 2) The Phase II Work Plan approved by PR-SHPO, and 3) The interest in researching the four quadrangles of the parcel with the intention of covering all sections of the general area of the APE, at least with one Excavation Unit. In this way it can be we can said that Units I was established in the northeast quadrant, Unit 2 and 3 were established in the southeast quadrant, Unit 4 was established in the southwest quadrant and Unit 5 was established in the northwest quadrant. The results of the excavation process confirm that the northwest and southwest quadrants of the parcel were negative in Phase IB and in Phase II. In the northwest and southwest quadrants, no elements of cultural value were detected. In these quadrants the ground is covered by a layer of asphalt. Under the asphalt there is a layer of caliche fill. Under the caliche there is a layer of fill (10 YR 3/3 Dark brown) composed of sandy silt soil, and under this layer of fill is the natural soil the parcel composed of clay silt (10 YR 2/2 very dark brown).

On the northeast and southeast quadrants, there is a layer of fill that contains abundant fragments of brick. In Unit 1, the fill was deposited in several actions and contains, in addition to the brick fragments, domestic materials, coal and some stones mixed with the fill. This unit is considered negative since the materials are mixed within the fill layers with no evidence of cultural integrity.

On the other hand, the southeast quadrant presents some possibilities of containing evidence of an underground structure. Two units were located in this quadrant, Unit 2 that tested positive for a tamping of earth and an agglomeration of construction materials. Inside the conglomerate, two entire construction bricks were recovered with evidence of of lime and sand mortar still adhered to them, similar to the materials used in colonial latrines to facilitate the percolation of liquids. The construction materials were accumulated in this area of the APE parcel, indicating the potential demolition or partial demolition of a colonial structure, probably a latrine or “pozo filtrante”. The remains of the demolition were deposited in this area. Actually, the APE parcel southeast quadrant is mostly covered with the wood and cement structure making it impossible the archaeological investigation in this sector.

Photo 22: Bricks with sand and lime mortar recovered from Unit 2.

**Discussion of the Phase II archaeological results**

Based on the results of the excavations of Phase II, it can be established that in the northeastern area of the Parcel APE various layers of fill have been accumulated. This fill contain abundant fragments of bricks, materials associated with domestic objects in a fairly crushed state and coal fragments. This layer of fill is detected near the eastern boundary of the parcel. In the west and north areas of the plot, the two excavated Units 4 and 5 were negative to historical materials or construction elements. Both Units, and Unit 5, presents the asphalt layer, and the caliche filler material. On Unit 4, the caliche layer is 7 cm thick. Under this layer there is sandy silt soil 10 YR 3/3 dark Brown up to 40 cm. At the level of 40 to 60 cm deep, the soil is silty 10 YR very dark Brown. This silty layer corresponds to the natural soil of the plot. All the excavated levels were negative to materials or cultural vestiges.

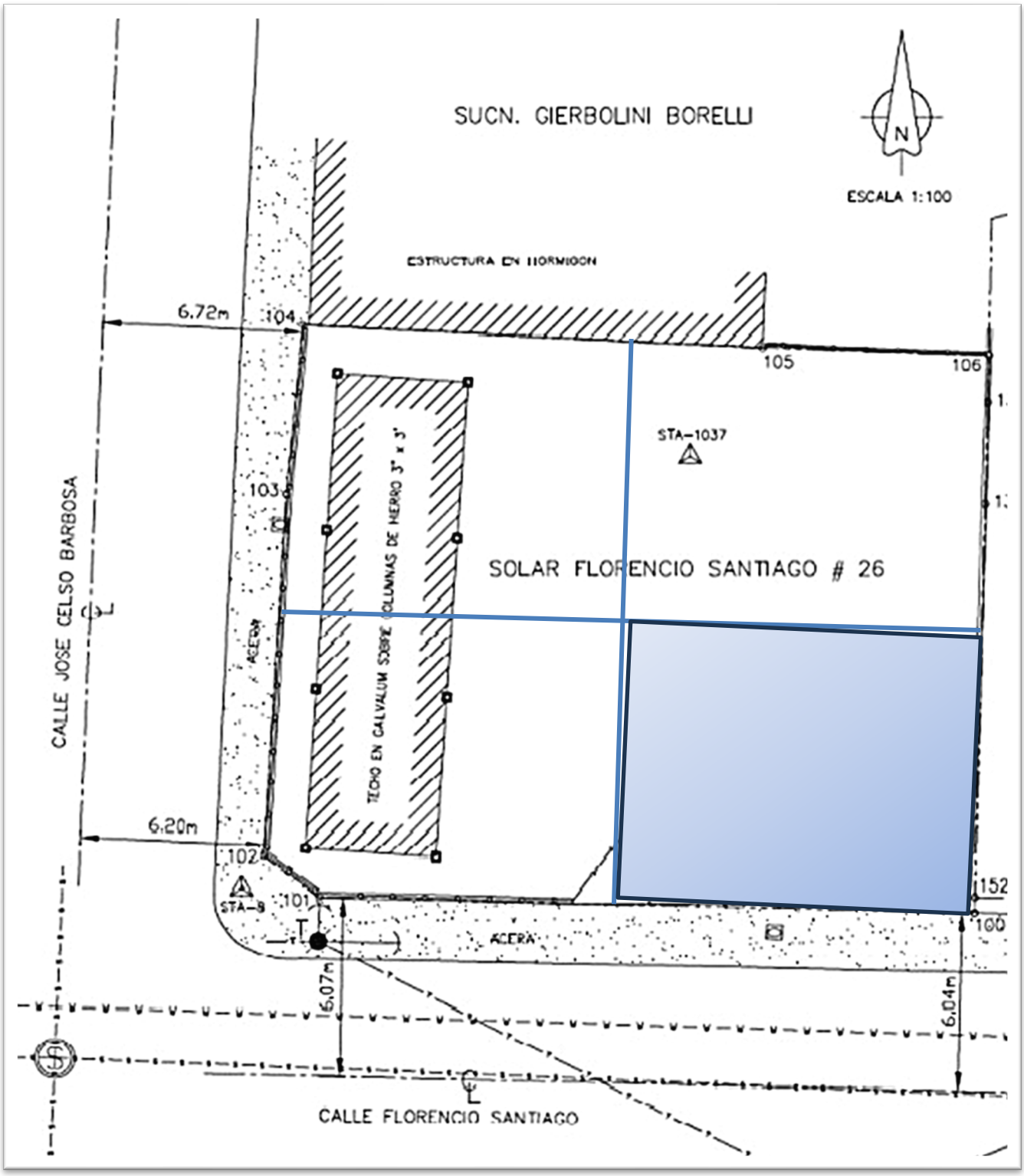
In the Southeast cuadrant of the APE parcel, two Units 2 and 3 were excavated. Unit 3 present negative archaeological results from 0 to 80 cm. Unit 3 presented three stratigraphic levels. The first layer begins with the cement slab of the wood and cement structure that is located in the southeast corner of the plot. The next layer is the base of the cement floor which is formed by a sand fill (topping). The third layer of present a sandy silt substrate 10 Y/R 4/3 Brown color. This third layer extends up to 80 cm deep. Unit 3 was negative to cultural remains or material.

Unit 2 and the extension of Unit 2 yielded positive results, evidence of a tamping of earth to the east of Unit 2 and an agglomerate of colonial construction materials (4 complete bricks, brick fragments, stones, a river Chinese and fragments of old cement) to the west of Unit 2. The agglomerate of colonial materials points to the demolition of a colonial structure whose remnants were accumulated in this area. The research process in this southeast quadrant of the plot is hindered by the existence of the structure of the wood and cement. The exploration of the Southeast parcel quadrant is limited until the structure is removed/demolished. In this quadrant, sanitary pipes are currently installed corresponding to two bathrooms that were provided at the back of the structure.

Based on the results of the Phase II Archaeological Investigation conducted in the APE site, no "In situ" elements or materials were detected that deserve consideration for inclusion in the National Register of Historic Places. The extension of the plot is 0.296 square miles (477 square meters), the infill layer containing brick fragments extends from 0 to 60cm deep in some sectors. From 60cm deep, the natural loamy soil of the parcel is located.

An Archaeological Monitory is recommended during the project construction for the Southeast quadrant of the parcel APE (Figure 2).

Figure 2: Southeast quadrant of APE Parcel recommended for monitory during project construction.



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

Saturday, March 1, 2025

Lauren B Poche

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

SHPO-CF-02-13-25-01 PR-CRP-000145 (Coamo), Proyecto Residencial Comercial Pisos de Coamo FS26

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.

After a review of all the documentation, the PRSHPO agrees with your finding that the proposed project, with the established conditions, will have no adverse effect upon historic properties:

1. Implementation of the intensive archaeological survey (Phase II) work plan, dated April 22, 2024, prepared for the above referenced project.

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/ MB

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

2/12/2025

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

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

**Section 106 NHPA Effect Determination Submittal for PR-CRP-00145, Proyecto Residencial Comercial Pisos de Coamo FS26, Coamo, 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, PRDOH contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support their objectives for the CDBG-DR funds.

On behalf of PRDOH, HORNE is submitting documentation for the proposed Proyecto Residencial Comercial Pisos de Coamo FS26. The Municipality of Coamo proposes the construction of a three-story building with a commercial space on the first floor and seven housing units with a total of approximately 11,880 square feet of construction. The project is located within the boundaries of the NRHP eligible Coamo Traditional Urban Center. It will include the demolition of two small structures that are approximately 35 years old. The

full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% design development plans.

Based on the documentation provided, the Program requests a concurrence with a determination that no adverse effect to historic properties is appropriate for this undertaking, conditioned to the implementation of an intensive survey (Phase II). A Phase II workplan is attached for your review and concurrence.

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

Kindest regards,

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

Attachments

**PR-CRP-000145**

# Proyecto Residencial Comercial Pisos de Coamo FS26 Project

## Coamo, Puerto Rico

Section 106 Effect Determination Form

| PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR<br>PROGRAM CITY REVITALIZATION PROGRAM (CRP)<br>Section 106 NHPA Effect Determination | |
|---|---|
| **Subrecipient: Municipio de Coamo** | |
| **Project Name:** Proyecto Residencial Comercial Pisos de Coamo FS26 | |
| **Project Number: PR-CRP-000145** | |

| **Project Location:** 26 Florencio Santiago Street, corner with José Celso Barbosa Street, Coamo, Puerto Rico | |
|---|---|
| **Project Coordinates:** 18.07938503, -66.35667973 | |
| **TPID** (Número de Catastro): 345-033-046-09-001 | |
| **Type of Undertaking**:<br>☐ Substantial Repair<br>☒ New Construction[1] | |
| **Construction Date** (AH est.):<br>c.1995 (1936 original house, mid 1940's second house) | **Property Size** (acres): 0.1105 acres (447 sq. meters) |

| **SOI-Qualified Architect/Architectural Historian**: Ilia Sanchez Arana, Architect (revised by PM (ICF) SOIQs Carmen Marla Lopez, Architect and Berenice Sueiro 12/27/2024) |
|---|
| **Date Reviewed**: August 7, 2024, 12/27/2024 |
| **SOI-Qualified Archaeologist**: Norma Medina-Carrillo, PH.D., Archaeologist (revised by PM (ICF) SOIQs David Sherman and Dylan Zedaker 12/26/2024) |
| **Date Reviewed**: August 7, 2024, 12/27/2024 |

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties. It has been determined by the SOI-qualified professionals that the project undertaking does not conform to Stipulation II.A (Project Review – Programmatic Allowances) of the Section 106 Programmatic Agreement (PA) among FEMA, SHPO and COR3, as amended (May 3, 2023).

**Project Description (Undertaking)**

Introduction

The Municipality of Coamo, assisted by the Puerto Rico Department of Housing (Departamento de la Vivienda de Puerto Rico) (PRDOH) and the Puerto Rico 2017 Disaster Recovery, CDBG-DR Program City Revitalization Program (Programa de Revitalización de la Ciudad del Gobierno Federal) (CITY-REV), proposes an in-fill housing project within the National Register of Historic Places (NRHP) eligible Coamo traditional urban center (TUC) as well as the locally listed Coamo Historic Zone (Figure - add reference for figure depicting both the TUC and the historic zone).

*Traditional Urban Center Background and Project Location*

The Municipality of Coamo developed a Revitalization Plan for the TUC of Coamo in response to the observable tendency of the urban centers, of the majority of the Municipalities of Puerto Rico, to lose residents and commerce, provoking a sub use of available infrastructure and services, a

pressure for development of sensitive land without infrastructure, the rapid deterioration of valuable historic properties and the abandonment of city life.

One of the main goals of the Plan was to revitalize the TUC, bringing new residents through the construction of new housing units and compatible commercial spaces in the area, either for sale or for rent. One of the strategies used by the Municipality to achieve this goal was the acquisition of properties not in use, within the Historic Zone of the TUC of Coamo, to develop in them the mentioned housing units and commercial spaces.

The Historic Zone of the TUC of Coamo, within its Revitalization Plan, received important revitalization projects developed and completed by the Directory of Urbanism of the DTOP between the years 2002 and 2004, in its principal streets, such as the undergrounding of all the electrical and communication infrastructure, renovation of the potable water, the sewers and the storm sewers systems, new sidewalks with new lampposts and trees and new street pavements. Also, part of these projects was the renovation of the old Market Place with a new multilevel parking, the renovation of the City Hall building with a new annex building, the restoration of the Luis Muñoz Rivera Plaza and the restoration of the old Picó-Pomard Residence for its conversion into The Museum of the History of Coamo Ramón Rivera Bermúdez.

Later the Municipal Administration gave continuity to these initiatives with its own financial resources and other identified sources, following the TUC Revitalization Plan, with projects within the Historic Zone such as the following:

- Restoration of the Old Hollywood Cinema to continue its use as a theater/cinema
- New Posada San Blas and restoration of Casa Bernier as a new small city hotel in front of the Luis Muñoz Rivera Plaza
- Restoration a historic house for the new La Gota de Rojas Restaurant, also in front of the Luis Muñoz Rivera Plaza
- Restoration of the old Cooperative Santa Teresita for its conversion into the new Ichiban Restaurant
- Restoration of the old Eugenio María de Hostos School for its conversion into the New Municipal School for the Fine Arts

The **Pisos de Coamo** project is one of these projects. It will be located in a plot of land within the Historic Zone of the Traditional Urban Center, on the number 26 of the Florencio Santiago Street, in the corner with Dr. José Celso Barbosa Street. This parcel was acquired by the municipality on 2019 as part of the mentioned strategy.

The parcel of land has an area of 0.1105 acres (4,812 sq. feet or 477 sq. meters). It has the Florencio Santiago Street on its south side, the Dr. José Celso Barbosa Street on its west side, the recently developed housing for the elderly, Egida Plaza Apartments, on the east side and the Borelli House, also a property of the Municipality of Coamo with historic value, on the north side.

*New Building Description*

The project proposes the construction of a three-story building with a commercial space on the

first floor and seven housing units with a total of approximately 11,880 square feet of construction. A detailed description of the proposed building follows.

**First Floor** (4,810 sq. ft. total)
The first floor has a commercial space for retail or offices, with direct access from the street, with bathrooms and support spaces, with approximately 1,769 sq. ft.

This level also has the main entrance to the residential apartments, a lobby, are for the mailboxes and the intercom, stairs, electrical and mechanical room, water tank and pumps room and support spaces, with approximately 854 sq. ft.

In this level there is also one handicapped accessible residential apartment with two bedrooms, one bathroom, living and dining area, kitchen with laundry, linen closet, and a balcony; approximately 1,034 sq. ft.

On the first floor there is also a Patio with a small garden, a location for the electric generator and trash station; approximately 1,153 sq. ft.

**Second Floor** (3,535 sq. ft. total)
The Second Floor is comprised of three residential apartments and a common area. In this level there is one residential apartment, of approximately 1,288 sq. ft, with three bedrooms and two bathrooms, living and dining area, kitchen with an island, laundry, linen closet, walk-in closet in the master bedroom and a balcony. There is a second residential apartment of approximately 1,005 sq. ft., with two bedrooms and one bathroom, living and dining area, kitchen with an island, laundry, linen closet, and a balcony. There is a third residential apartment of approximately 821 sq. ft., with two bedrooms and one bathroom, living and dining area, kitchen with island, laundry, walk-in closet in the master bedroom and a balcony. There is also a common area of approximately 421 sq. ft., with stairs, floor lobby, electrical, mechanical and maintenance closets.

**Third Floor** (3,535 sq. ft. total)
The third floor consists of three residential apartments and a common area. There is one residential apartment of approximately 1,288 sq. ft., with three bedrooms and two bathrooms, living and dining area, kitchen with an island, laundry, linen closet, walk-in closet in the master bedroom and a balcony. There is a second residential apartment of approximately 1,005 sq. ft., with two bedrooms and one bathroom, living and dining area, kitchen with an island, laundry, linen closet, and a balcony. There is a third residential apartment of approximately 821 sq. ft., with two bedrooms and one bathroom, living and dining area, kitchen with island, laundry, walk-in closet in the master bedroom and a balcony. The common area of approximately 421 sq. ft., consists of stairs, floor lobby, electrical, mechanical and maintenance closets. The Rooftop will be a recreational area with a gazebo for residents.

Roof drainage will be conducted through 2-inches to 4-inches embedded pipes in walls, through sidewalks and free discharges to Jose Celso Barbosa (west) and Florencio Santiago (south) streets. Refer to plans, sheet P-1.

**Foundations and Infrastructure**

Foundations

Foundations A

426 p2 = 39.58 m2

426 p2 X 3'(depth) = 1,278 p3 = 36.19 m3

Foundations B

135 p2 = 12.54 m2

135 p2 X 3'(depth) = 405 p3 = 11.47 m3

Foundations C

432 p2 = 40.13 m2

432 p2 X 3'(depth) = 1,296 p3 = 36.70 m3

Foundations D

56.25 p2 = 5.23 m2

56.25 p2 X 3'(depth) = 169 p3 = 4.78 m3

Foundations E

102 p2 = 9.48 m2

102 p2 X 3'(depth) = 306 p3 = 8.66 m3

Foundations F

126 p2 = 11.70 m2

126 p2 X 3'(depth) = 378 p3 = 10.7 m3

Foundations G

147 p2 = 13.66 m2

147 p2 X 3'(depth) = 441 p3 = 12.49 m3

Foundations H

102 p2 = 9.48 m2

102 p2 X 9'-4"(depth) = 900 p3 = 25.49 m3

Foundations I

161 p2 = 14.96 m2

161 p2 X 2'(depth) = 322 p3 = 9.12 m3

Foundations J

27 p2 = 2.5 m2

27 p2 X 3'(depth) = 81 p3 = 2.29 m3

Foundations K

44 p2 = 4.1 m2

44 p2 X 3'(depth) = 132 p3 = 3.74 m3

Infrastructure

Potable water and sanitary connection to PRASA system and electrical connection to PREPA/LUMA system will occur along and/or through west and south sidewalks and streets:

- Connection to PRASA system (potable water and sanitary):
    - Potable water: (a) A 1-inch diameter copper pipe will be installed and connected at a tie-in point to existing water line (to be located in field), at Florencio Santiago Street. Refer to plans, sheet P-5, P-10, P-11;
    - New water cistern. Refer to plans, sheet P-9: 1,800 gallons, 7'-10" x 7'-1" x 9'-4" deep (sheet A-7, structural detail S-1B)
    - Sanitary water: A sanitary water, 4-inch diameter PVC pipe will be installed from a sidewalk location to a tie-in point to existing sewer line (to be located in field), at Florencio Santiago Street. Depth will be determined in the field. Refer to plans, sheets P-1, P-10, P-13.

Electrical connection to new concrete PREPA/LUMA electrical pole – A new power line will be installed below finish grade from the electrical transformer located northwest corner of the site to the new concrete pole (currently a wood pole) at Florencio Santiago Street. The buried power line will run from the west of the project, north to south and turns on the south side of the Barbosa/Florencio Santiago corner, running from west to east, until it reaches the aforementioned post (replacement from wood to concrete by PREPA/LUMA as part of the project). Maximum depth of new power line, maximum of 58-inches per PREPA Standards. Refer to sheets E-1 and E-2 (Section A-A on sheet E-2).

*Building's urban context integration and facades description*

The project, as already stated, is a three-story small building contextualized with the Traditional Urban Center. In the first floor it has commercial/office space with its main access through the Dr. Celso Barbosa Street. On the Florencio Santiago Street it has the main entrance for the residential apartments following the form and location of the traditional "zaguan" or lobby. Through that lobby, there is access to a first floor ADA accessible apartment. In the second and third floors the building has three residential apartments on each floor.
The architectural typology of the proposed new building responds to the typical use-combination of the Historic Zone, commercial uses in the ground floor with solid walls and doors openings to the sidewalk and residential units with balconies in seconds and third floors, also following the pattern of solid walls and openings for doors and windows. Also, part of this typology is the "zaguan" or direct from the sidewalk, first floor entryway and corridor to the residential units, which is part of the proposed building.
The proposed building will have two street façades, since it's a corner lot. Both are aligned with

the urban wall of the Historic Zone. In the corner of both streets, it has a "chaflán" or chamfer, to contribute to the fluidity of the public space and to Coamo's TUC vocabulary.

The height of the building is lower than the maximum allowed height in the Historic Zone of Coamo, which is established by the Institute of Puerto Rican Culture (ICP)as the height of the San Blas de Illescas Catholic Church (1579), located in the Luis Muñoz Rivera Plaza, Coamo's foundational public space.

The recently constructed elderly residential building, Egida Plaza Apartments, located in the adjacent lot to the east of the project, is one floor higher than Pisos de Coamo and still is within the ICP's parameters.

The adjacent property on the north side of the project, Casa Borelli, is approximately 20 feet high, equivalent to 2 floors of Pisos de Coamo with a separation between the two structures (composed of the addition of the width of the two lateral patios) of approximately 50 feet, which provides for an adequate transition between the masses of both structures.

*Structures Present in Site - Architect's Description*

The project area extends approximately 81 feet east/west by 72 feet north south and has two small structures on it that are to be demolished as part of the proposed project. The Municipality of Coamo bought the lot in 2019 from the Gierbolini Amstrong family. The Municipality, through a Certification, stated that the previous owners informed that in the late 90's they rented the empty lot to a Certified Car Dealer and to adequate the lot, for the exhibition and sale of the cars, the dealer built the existing aluminum roof with steel columns and expanded in wood construction an existing accessory small structure to be used as a sales office. It is 60% concrete blocks and 40% wood, with an addition made of wood panels. The condition of these structures is in total disrepair.

The deteriorated aluminum roof with metal supports is located on the west side of the lot, adjacent to Dr. José Celso Barbosa Street, and is approximately 55 feet long by 17 feet deep and 10 feet high. The accessory structure is located in the southeast corner of the lot. It is a small deteriorated and abandoned concrete and wood structure, approximately 30 feet long by 20 feet deep and 8 feet high.

Neither of the two structures has any historical, artistic or architectural value. They are around 35 years old and were constructed to meet the mentioned uses, with the least of investment either in design, materials or construction methods. They both are in a state of total disrepair. The extant structures do not warrant individual NRHP listing nor do they contribute to the overall NRHP eligibility of the TUC.

**Area of Potential Effects**

As defined in 36CFR§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 comprises a 0.1138 acre lot per topographic survey, and the 0.40 acre staging area, for a total of 0.5138 acre.

Some required infrastructure work will occur in adjacent sidewalks along José Celso Barbosa and Florencio Santiago Streets (see Project Description section). The project area extends approximately 25 meters east to west by 22 meters north to south is bordered to the west and south by José Celso Barbosa and Florencio Santiago Streets. The eastern and western limits are defined by property walls. The staging area is located at 14 Quinton Street in a lot owned by the Municipality. It extends to 44 meters east/west by 49 meters north south. The indirect/visual APE is the viewshed of the proposed project and consists of the 11 properties surrounding the direct APE and extends approximately 83 meters north/south by 108 meters east/west. The project Pisos de Coamo complies with the Secretary of Interior's Standards for the Treatment of Historic Properties (36 CFR Part 68).

**Identification of Historic Properties – Archaeology[2]**

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 (36CFRPart61), shows that the project area is considered as one of moderate to high archaeological sensitivity, in pre-historic and historic resources, with the most common archaeological deposits being Spanish colonial remnants.

Historical Background

The sixteenth-century Spanish settlement established in this area of Coamo takes its name from the name of the river that runs through its jurisdiction called by the Taíno Indians "Cuamo". According to local historians, the nucleus of the original settlement was founded by residents of San Germán who were looking for a safer place away from the coast to live and establish their haciendas. By 1570 there was a nucleus of settlers composed of thirty families, which induced the Bishops Mercado and Salamanca to ask King Felipe II in 1579, to authorize the official foundation of Coamo. Originally, the Partido de Coamo extended from the Jacaguas River (to the west) to the Guamaní River (to the east) and to the coast of the Caribbean Sea (to the south). Bishops Manuel de Mercado and Diego de Salamanca promoted the town foundation between 1574 and 1579. In 1582 the port of Coamo is mentioned in a report of the Captain General of the Island Jhoan de Melgarejo Island:

> *"... farther on, about two leagues and a half along the coast to the east, there is a bay, which they call the port of Cuamo, and at the entrance of it, on the western side, there are some reefs, and on the eastern side two islets, entering through the islets and reefs, it is a port for small ships of one hundred and one hundred and fifty tons. Even if you don't get to land, there's profundity for any nabio."*[3]

By 1582 about twenty Castilian families were living near the banks of the Cuamo River. One of its founders, Don Cristóbal de Illescas (originally from the town of Illescas in the province of Toledo, Spain) donated the land to establish the town. The village was located north of a large Indian village. The town was initially called San Blas de Illescas in honor of the donor of the land. In 1597

[2] Medina Carrillo, Norma, Estudio Arqueológico Fase IA/ IB de Pisos de Coamo, Calle Florencio Santiago #26 esq. Calle Dr. José Celso Barbosa, Barrio Pueblo, Coamo PR, 2020.
[3] Fernández Méndez, Eugenio, Crónicas de Puerto Rico, Rio Piedras: Editorial U.P.R.1973. Page133.

the Jesuit missionaries Carlos Spínola and Jerónimo de Angelis described the church as built of round wood and rustic canes, and palms, like other houses in the settlement. Diego Torres Vargas affirms that Coamo was declared a town in 1616, while Pedro Tomás de Córdoba sustains that it was in 1646.

The Hermitage of San Blas de Illescas was founded in 1582 by Augustinian Father Fray Diego de Salamanca. In 1661, Coamo already had a church built in masonry. This church became a parish in 1645. In 1646, the chronicler Torres Vargas mentions that Coamo already had about a hundred families. Coamo developed as a ginger-producing and cattle region during the sixteenth and eighteenth centuries. At the beginning of the seventeenth century, the urban area of Coamo was practically non-existent. At the end of this century, only 10 to 12 houses were built on the grounds surrounding the church. Most of the population of Coamo lived in the rural areas. In the early eighteenth century, coffee arrived in the Coamo region. Historians such as Ramón Rivera Bermúdez point out that the first plantings of coffee trees in Puerto Rico were established in the south of the island in the "Partido de Coamo". In 1776 Coamo was granted the title of Villa, with cabildo, justice, and regiment. One hundred years later, the town of Coamo had 32 houses and a beautiful walk with the church, and the two hermitages forming a defined urban space.

At the beginning of the nineteenth century, the urban area of Coamo was made up of 38 houses and twelve bohios. The agricultural industry had 23 wooden mills (trapiches), one coffee mill, 50 cuerdas planted with sugar cane, and 114,000 feet of coffee. Livestock and agriculture comprised the main industries of this municipality. In 1824 agricultural production reached 150 quintals of sugar, 3,400 quintals of coffee, 15 quintals of tobacco, 288 quintals of rice, 439 bushels of corn, and 288 quintals of rice. (Figure 1). During the eighteenth century, the number of houses in the town increased. These houses were built mostly of roundwood or rustic, yaguas, and straw. Then they were also constructed of sawn country wood, palm boards, or "tablaestilla". They lined the houses with "tejamaní" and roofed them with terracotta tiles. Very few houses in this century were built of masonry. They built their houses on high "soqueria" that resemble "palafitos". The town of Coamo consisted of 38 houses and 12 huts in the village and 377 houses and 17 huts in the countryside. During the nineteenth century and the first half of the twentieth century, Coamo developed as an exceptionally agricultural and cattle-rising region. The main agricultural products were coffee and tobacco. By 1876 Coamo had 158 farms dedicated to coffee, tobacco, and corn. At the end of the nineteenth century, Coamo had a population of 15,144 inhabitants. In 1824 some 40 housing structures made up the urban center of Coamo. As shown in the Plan of Coamo and its Ejidos of 1878 (Figure 1), the urban grid of the urban center of Coamo begins to develop around the streets José I. Quintón, Mario Braschi and Barbosa, Calle del Fuerte today, José Celso Barbosa, and its extension as Dr. Santiago Veve, Sol Street, and Florencio Santiago Street. Currently, Coamo has more than 2,000 neighbors, 377 homes, and 17 huts. The urban center had 83 houses, there were already two schools, one public and one private. The economy of Coamo revolved around livestock, coffee, tobacco, and minor fruits. By the end of the nineteenth century, the town had about 500 houses of masonry and wood and about a hundred huts. The number of residents increased from 2,000 in 1824 to 15,000 by the end of this

century.

It was during the second half of the nineteenth century when the urban development of the town of Coamo intensified. In 1870 the streets were laid out by the surveyor Augusto Brachi. This urban development was driven by two factors, economic reforms and the construction of the central road in 1872. The economic impulse and the improvement of transportation helped to transform the urban center of Coamo into a regional commercial center of importance, leading to the construction of warehouses and commercial buildings along José I. Quintón Street. The commercial boom, in turn, attracted new permanent residents to the urban area of Coamo (Figure 2).

At the beginning of the twentieth century, with the construction of the Aqueduct and the Power Plant of Coamo, the layout of the streets expanded and shaped the urban grid that we recognize today. By 1900 there were about 600 houses in the urban area, (20% were small straw and yaguas "bohios"), and about 60 houses were built in masonry and wood roofed in "tejamani" or zinc sheets. This expansion toward the periphery continued during the 1950s, 60, 70, 80, 90, and 2000 when the occupation of the Urban Center of Coamo intensified and extended to the peripheral

*Figure 1 - Town of Coamo, 1853. Geographical, statistical, and historical dictionary of the Island, Diego de Arteaga (Source: Sepúlveda Rivera, Aníbal, Puerto Rico Urbano, Vol. 2, San Juan: CARIMAR, 2004, Page 81).*

areas. Aerial photographs of 1937, 1977, and 2010 show the process of densification of housing in each urban block and the extension of urban blocks in a south and west direction. As stated in the analysis of the architect Samuel Corchado, from 1964 ahead, projects under the paradigms of Modern Architecture had an impact on the urban area of Coamo. These Modern residential projects became part of the traditional layout of the Urban Center fracturing the traditional context of the Coamo Historic Zone.

By the mid-twentieth century (1950s) the occupation of the Urban Center of Coamo intensifies and extends to the preferred areas of the Traditional Historic Urban Center. Aerial photographs from 1937, 1951, 1964, and 1985 show the process of densification of homes in each urban block and the extension of urban blocks in a southerly and west direction.

*Figure 2 - Croquis de Coamo, 1878/ Manuel Ubeda Delgado (Source: Sepúlveda, Puerto Rico Urbano, CARIMAR, Vol. III p. 154.)*

Historical Synopsis of the project parcel

The reviewed cartography shows that the area where the project is located was already integrated in 1853 as part of the urban block south of the Public Square of Coamo (Figure 1). Nevertheless, the Coamo land registry confirms this urban plot remained unoccupied until 1905. The area where the lot is located was developed during the 17th and 18th centuries (see Figure 3, orange highlight).

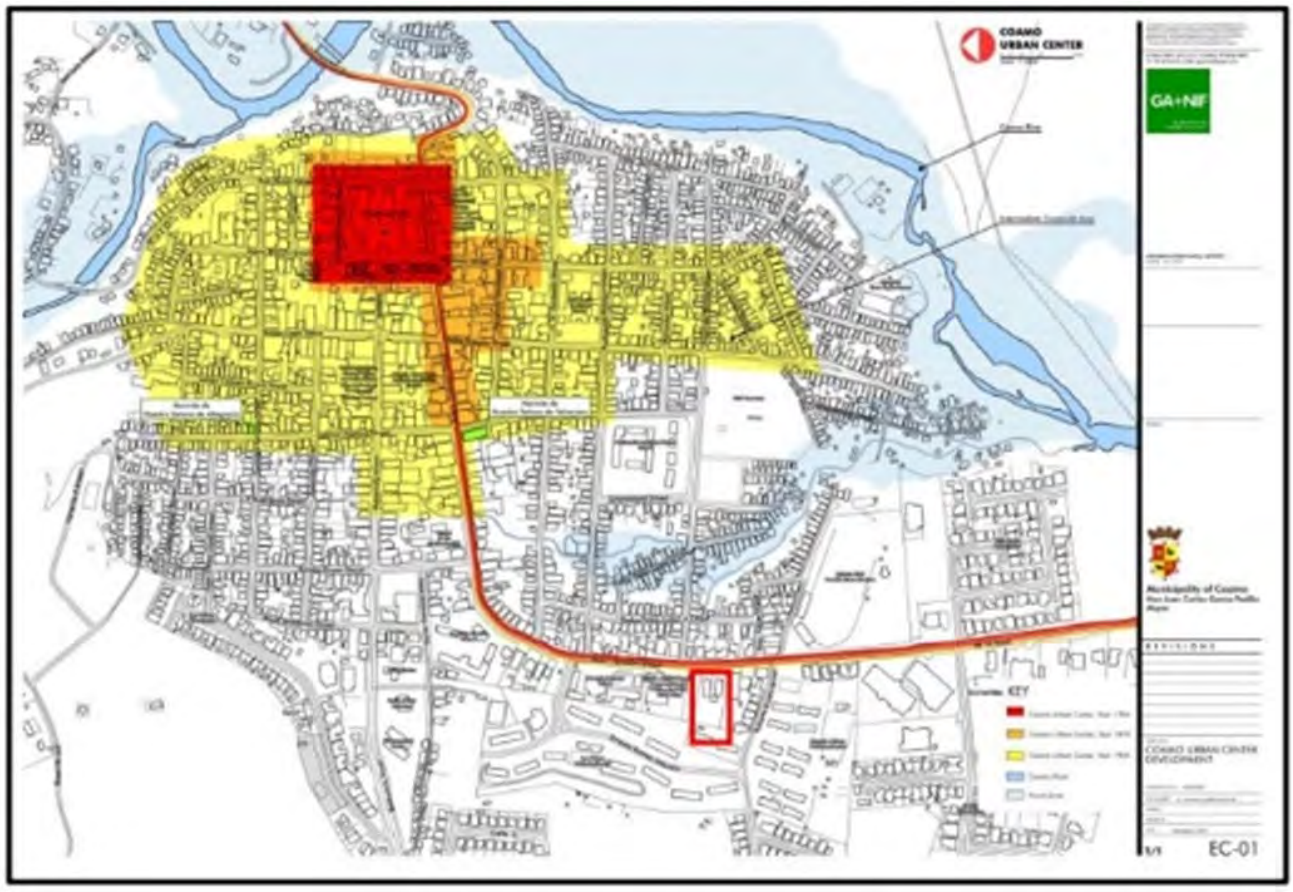



*Figure 3 - Coamo Revitalization Plan 2002-2004 (Source: GA+NF)*

In a 1936 aerial photo, a residence can be seen on the project parcel. The house is in an L shape and covers a large part of the plot area. According to the information collected, this single-story wood structure had a balcony facing west to Calle José Celso Barbosa. The project parcel is near the Coamo Main Square and, therefore, is part of the Coamo Historic Zone / TUC.

This "criollo style" wood house was demolished in the mid-1940s. In this parcel, a second house was built around the same time which was also demolished in the mid-1990s. According to some reports collected in the neighborhood, later a second small accessory structure facing south to Calle Florencio Santiago was constructed on the site.

To date, two houses have been built and demolished on the project plot between 1936 and 1990. According to the notarized document of sale prepared by the municipality of Coamo, the property under evaluation is not in the Property Registry; however, the document supplies this property information:

> *Rústica: Plot located on Dr. Barbosa Street, corner Ermita Street, today corner Florencio Santiago Street of this town, situated in the estate number 1049, owned by the Municipality of Coamo, Puerto Rico, with a surface area of 445.54 square meters, with borders to the West: with 18.85 meters, which is its front to the before mentioned street; to the South: with 23.05 meters, in limits with the plot of Ermita Street, today Florencio Santiago Street; to the East: with 19.23 meters, in borders with Borelli succession that is the bottom of the plot and to the North: with 23.03 meters, with plot of the house of Succession Borelli Patrón.*

Coamo Prehistory

The prehistory of Coamo has been well-studied and documented since the 1930's. There are 22 known archaeological sites in this municipality. Most of these archaeological sites are located along the Cuyón and Coamo rivers. At the time of the invasion of the Spanish colonizers to Boriké, the indigenous population of the region was mostly located in villages along the Cuyón and Coamo rivers.[4]

[4] Medina Carrillo, Norma, Estudio Arqueológico Fase IA/ IB "Pisos de Coamo" Calle Florencio #26 esq. Barbosa Barrio Pueblo, Coamo PR. 2020.

1. Baños de Coamo: next to the spa, is on the side of the Coamo River.

2. Buenos Aires: In Buenos Aires Street (southern section of town), covered an area of approximately four "cuerdas". In it, abundant remains of shells have been found. It is believed that the seashells in this indigenous village came from trade activities from the indigenous village El Cayito on the coast of the municipality of Santa Isabel, south of Coamo.

3. Cuyón: In the Cuyón neighborhood was found a large Taíno Batey, two additional "bateyes" and numerous artifacts such as shell middens, Taíno pottery, "cemíes", human bones, axes, and necklaces. This Taíno village was located near several habitable caves.

4. Las Flores: West of the Las Flores sector, in the San Ildefonso neighborhood of Coamo. In the remains of this village artifacts were found from two different phases, the Cedrosan solenoid, and the Ostionoid cultures. This village had a Ceremonial Plaza or Batey, and its population was estimated to be between 60 and 100 people. It is believed that there was close communication between the village of El Cayito and the villages in the basins of the Cuyón and Coamo rivers up to the village of Toita in Cayey. The amount of shell remains exhibited in these mountain villages suggests a big trade between the coast and the "Cordillera de Cayey" region, via Coamo.

Between 1985 and 2020, one hundred and nine (109) archaeological studies have been conducted in the municipality of Coamo, of which, thirty-five (35) reports reflect positive results to historical and indigenous elements. In the archives of the State Historic Preservation Office (SHPO) and the Council for the Protection of Terrestrial Archaeological Heritage, twenty-two (22) identify archaeological sites in the municipality of Coamo. At present, there are no known preceramic archaeological sites reported in this municipality. The oldest indigenous communities that inhabited the Coamo region were the Cedrosan-Saladoid groups.

The Cedrosan-Saladoid, the pre-Taínos, and the Taíno groups cultures are associated with periods II, III, and IV of Rouse's classification.[5] At 1.5 kilometers from the project area under evaluation is located the PRCO003 archaeological site. The site called PRCO003 (Buenos Aires) contains evidence of a settlement (village) of the Cedrosan-Saladoide culture of the late period with Cuevas-style pottery. This deposit PRCO003 (Buenos Aires) has multi-component characteristics. The archaeological site is identified as PRCO001 (Las Flores), located in the San Ildefonso Sector, it is about 3.3 kilometers away from the urban center of Coamo. This site also presents multi-component characteristics and evidence of Cedrosan Saladoid (Hacienda Grande) and Ostionoid ceramics. The Las Flores site is recognized as the oldest Indigenous settlement in the Coamo region as it contains evidence of Hacienda Grande-style pottery. Both sites (Las Flores

[5] Rouse, Irving, "Migrations in Prehistory", Inferring Population movements from Cultural Remains, Yale University Press, New Haven1986.

and Buenos Aires) contain evidence of ancient pre-Columbian settlements that chronologically correspond from period II to period III of our prehistory. Analysis of archaeological evidence shows that the region of the municipality of Coamo can be considered as one of moderate to high archaeological sensitivity.

The new evidence of the petroglyph and the vessel edge "capá" style (Period IV) points to the possibility of two indigenous areas in the urban center of Coamo. It is also recognized that south of the Plaza de Recreo de Coamo in a West-East direction, there was an old Indian Road, today identified as José I. Quinton Street, which connected the coastal sector, formerly called Coamo Abajo, (today Santa Isabel) with the mountains of Aibonito and Cayey and, given the presence of fragments of Capá style ceramics, and the existence of a possible petroglyph just north of the area of the main square, it is probable that in the highest part of this area located a Taíno settlement at the time of the Spanish conquest of Borikén in 1508. Within a radius of 1.5 kilometers from the project area, is the location of the PRCO003 deposit. The site called PRCO003 (Buenos Aires) contains evidence of a settlement (village) of the late Saladoid period. There is Cuevas-style ceramic evidence. This deposit PRCO003 (Buenos Aires) has multi-component characteristics.

A Capá ceramic vessel fragment was recovered by one of the construction workers and delivered to archaeologist Therese Marina López, of the Underground Project of the Urban Center of Coamo in 2004. Given the presence of fragments of Taíno pottery and the existence of a possible petroglyph just to the north of the Main Plaza, we suggest that in the highest part of this area, there was a Taíno village at the time of the Spanish conquest of Borikén in 1508. A second settlement was located to the South, identified as PR-CO-003 Buenos Aires. Traditionally, the Indian settlements near the banks of the rivers specialized in fishing activities and agriculture, benefiting from the fertility of the land on the alluvial terraces formed by the riverbanks. The petroglyph and the vessel edge "capá" style (Period IV) point to the existence of two indigenous areas in the urban area of Coamo. It is recognized that just south of the Plaza de Recreo de Coamo in a West-East direction, there was an old Indian Road, today identified as José I. Quinton Street, which connected the coastal sector, formerly called Coamo Abajo, (today Santa Isabel) with the mountains of Aibonito and Cayey and, because of the presence of fragments of Indigenous ceramics and the existence of a petroglyph just north of the area of the recreation square. Based on the above, it is possible that the highest part of this area was a Taíno settlement at the time of the Spanish conquest of Boriké in 1508.

According to information provided to architect Néstor Acevedo in 2001, there was a petroglyph in the courtyard of the former Hotel Colón de Coamo. In addition to the information provided by architect Néstor Acevedo about the possible existence of this Taíno petroglyph in the Urban Center of Coamo, during the project of the underground electrical lines, some fragments of pre-Columbian ceramics mixed with filling material in this sector were recovered. The largest fragment corresponds to a fragment of vessel edge of the Capá style. (Figure 4)

*Figure 4 - Fragment of Capá-style vessel rim, recovered during the "Soterrado de Líneas Eléctricas, en el Centro Urbano de Coamo" Project in 2003-2004.*

Only one pre-Columbian archaeological site is identified within a radius of 1/4 mile (1.5 kilometers) of the project APE. (Figure 6) This site is called PRCO003 (Buenos Aires) and contains evidence of a settlement (village) of the late Saladoid period with Cuevas-style ceramic evidence. PRCO003 (Buenos Aires) has multi-component characteristics. Based on the presence of pre-Columbian archaeological sites known in the area, and the antiquity of the Spanish-colonial settlement of Coamo, the archaeological sensitivity of the Traditional Historic Urban Center. The project area can be evaluated from moderate to high, especially when working in the traditional historic center that occupied the Villa de Coamo between 1572 and 1898.

In the Historic Center of Coamo, sixteen (16) archaeological studies have been conducted between 1990 and 2022 (Table 1; Figure 5). Eleven studies achieved positive results on colonial materials, elements, remnants, and structures. The most common archaeological deposits in this area are Spanish colonial remnants.

The APE parcel was evaluated in Phase IA-IB in 2020 by Archaeologist Medina Carrillo with positive results. The closest archaeological investigation near the project APE is the Phase III Apartments Project, conducted in 2014 by archaeologist Sharon Meléndez also with positive results. This research

adjoins the site under evaluation to the northeast. Another positive archaeological investigation in the same urban block is Casa Bernier and Posada San Blas Phase IA, Phase II, and Archaeological Monitory conducted between 2009 and 2014 by archaeologist Norma Medina with positive results. Both investigations, Plaza Apartments and Casa Bernier, detected archaeological materials, remnants of structures, and colonial structures preserved in this urban block of Coamo. In Phase II of Casa Bernier, the original filtering well of the colonial house was documented. This infrastructure Element was documented and preserved "in situ". (Table 1)

Two archaeological studies have been conducted on the plot where the storage of materials and equipment and offices of the Pisos de Coamo project is proposed to be located (Staging Area). This parcel was studied by Phase IA-IB (2004), and Phase II (2006), both with positive results; the plot is also identified as an archaeological site as CO0100006. These archaeological studies were conducted for the "Umpierre Apartments project" by archaeologist María Cashion Lugo. This plot was not developed, it was sold to the Municipality of Coamo and has been preserved as a parking area of the Municipality of Coamo. At present, 80% of the plot is paved with asphalt. The cultural resources documented by Cashion Lugo on this plot are preserved "in situ" under the asphalt layer. The activities proposed to occur on this plot do not involve excavations. The activities are limited to the storage of construction equipment and materials during the construction project and hosting the project office. The archaeological deposit underlying this plot will be preserved "in situ" and will not suffer negative impacts or effects during the construction process of the Pisos de Coamo project.

Based on the positive results of the archaeological studies conducted in this Coamo sector, we can affirm that the area surrounding the Main Square of Coamo, and its respective urban blocks is an area of high archaeological sensitivity. This sector is related to the Spanish colonial period, beginning in the founding period of Coamo in 1572, and extending until the end of the nineteenth century.

At 0.2908 miles (468 meters) Southeast of project APE is located the PRCO003 archaeological site. (see Figure 6). The site PRCO003 contains evidence of a settlement (village) of the late period of the Cedrosan Saladoid culture with evidence of Cuevas-style pottery. This deposit PRCO003 (Buenos Aires) has multi-component characteristics. The archaeological site is identified as PRCO001 (Las Flores), located in the San Ildefonso Sector, it is about 3.3 kilometers away from the urban center of Coamo. This site also presents multi-component characteristics and evidence of Cedrosan Saladoid (Hacienda Grande) and Ostionoid ceramics. The Las Flores site is recognized as the oldest Indigenous settlement in the Coamo region as it contains evidence of Hacienda Grande-style pottery. Both sites (Las Flores and Buenos Aires) contain evidence of ancient pre-Columbian settlements that chronologically correspond from period IIa to period III of our prehistory. Analysis of archaeological evidence shows that the region of the municipality of Coamo can be considered as one of moderate to high archaeological sensitivity.

**Table 1. Cultural Resource Studies Conducted Within a Quarter-Mile Radius of Project Area**

| ID | Author | Title | Year | SHPO/ IPRC ID | Results | Distance from APE |
|---|---|---|---|---|---|---|
| 1 | Norma Medina Carrillo | Soterrado, Mobiliario Urbano y Reforma a la Calle Baldorioty y a las Calles Circundantes a la Plaza de Recreo de Coamo Phase IA | 2003 | ICP/CAT-CO-03-09-11 | Positive | 30 m West |
| 2 | Norma Medina Carrillo | Elemento de Pozo Filtrante en la Casa Museo y Archivo Histórico de Coamo | 2004 | ICP/CAT-CO-04-10-05 | Positive | 78 m Northwest |
| 3 | María A. Cashion Lugo | Remodelación Farmacia Cooperativa Santa Teresita Calle José Quintón Esquina Barbosa | 2000 | ICP/CAT-CO-00-08-04 | Positive | 45 m North |
| 4 | Antonio Daubón Vidal | Coamo Plaza Apartments Phase IA-IB | 2011 | SHPO 12-06-11-03 ICP/CAT-CO-12-13-07 | Negative | Adjacent to APE |
| 5 | Norma Medina-Carrillo | Casa Bernier y Posada San Blas. Informe Final | 2014 | CP/CAT-CO-14-15-03 | Positive | 54 m East |
| 6 | María A. Cashion Lugo | Evaluación Arqueológica Fase II: Proyecto Apartmanetos Umpierre, Calle José I. Quintón Final, Barrio Pueblo, Coamo, P.R. Phase II | 2006 | SHPO 02-26-03-04 ICP/CAT-CO-06-11-04 | Positive to ceramics, metal, bricks, and foundations | Within APE |
| 7 | Norma Medina-Carrillo | Casa Parroquial de Coamo Phase IA | 2018 | ICP/CAT/ CO-15-15-09 | Negative | 109 m Northwest |
| 8 | Norma Medina-Carrillo | Estudio Arqueológico Fase IA/ IB "Pisos de Coamo" Phase IA-IB | 2020 | ICP/CAT-CO-20-16-01 | Negative | Within APE |
| 9 | María Cashion Lugo | Apartamentos Umpierre, Bo. Phase IA-IB | 2004 | SHPO 02-26-03-04 ICP/CAT/ CO-04-10-01 | Positive Criollo ceramics and Bricks | Within APE |
| 10 | Juan González Colón | Terminal Vehículos Públicos Phase IA-IB | 1990 | SHPO 09-13-85-01 | Positive | 165 m Northwest |
| 11 | Norma Medina Carrillo | Edif. Comercial Residencial La Esperanza Phase IA-IB | 2014 | SHPO 05-11-18-01 | Positive | 88 m Northwest |

| | | | | | | |
|---|---|---|---|---|---|---|
| 12 | Juan González Colón | Sanitary System for Villa Madrid Community Phase IA-IB | 1994 | SHPO 07-22-93-03 | Negative | 61 m East |
| 13 | Sharon Meléndez Ortiz | Documentación Arqueológica Fase III Proyecto Plaza Apartments. Coamo Phase III | 2013 | SHPO 12-06-11-03 | Positive | Adjacent to APE |
| 14 | Osvaldo Torres and Eduardo Questell Rodriguez | Evaluación Arqueológica Fase II Coamo Apartments Phase II | 2012 | SHPO 12-06-11-03 | Positive | Adjacent to APE |
| 15 | Norma Medina-Carrillo | Ampliación Teatro Hollywood Phase IA | 2016 | SHPO 08-18-15-07 | Negative | 162 m Northwest |
| 16 | Norma Medina-Carrillo | Rehabilitación Centro Histórico de Coamo Phase IA | 2009 | SHPO 12-23-09-80 | Positive | 30 m west |

**Table 2. Archaeological Sites Within a Quarter-Mile Radius of the Viewshed/Indirect APE**

| ID | NAME | SHPO Resource NUMBER | Distance/ Direction to the APE | Description (historic, prehistoric, or both, plus site type) | NRHP Status (Listed, Eligible, Non-Eligible, No Data, Pending) |
|---|---|---|---|---|---|
| 1 | Buenos Aires | CO0100003 | 392 m SE | Prehistoric Habitation Site | Eligible |
| 2 | Cerámica histórica, ladrillo | CO0100006 | Within | Historic Habitation Site and Artifact Scatter | Eligible |

Historic quadrangles and aerial photos analysis

As part of the historic map research for this project, historic aerials from 1937, 1958, 1967, and 1977 (Figures 7 to 10) and historic USGS topographic quadrangles (Figures 11 to 14) were analyzed. As a result of the historical quadrangles and the aerial photo analysis, it can be recognized that the parcel under evaluation is part of an urban residential block. In a 1937 aerial photograph, a residence that occupies a great part of the parcel is observed. According to the oral information collected in the community, this house was a one-story structure, built of wood, with a balcony (principal façade) facing west to José Celso Barbosa Street.

The aerial photo of 1951 confirms that the house previously observed in the 1936 photo, is not found. On the parcel was built a smaller house facing south, to Florencio Santiago Street. In the aerial photo of 1985, the small house built in the mid-1940s is still being observed. This small wood

house was demolished after 1994 to assemble a raised metal roof for a car dealer business.

In the Historic Quadrangles of 1937, 1958, 1967, and 1977, the small house facing south to Florencio Santiago Street is appreciated in the parcel under evaluation.

**Figure 5. Location of Cultural Resource Surveys within the ¼-Mile Research Radius of the APE**

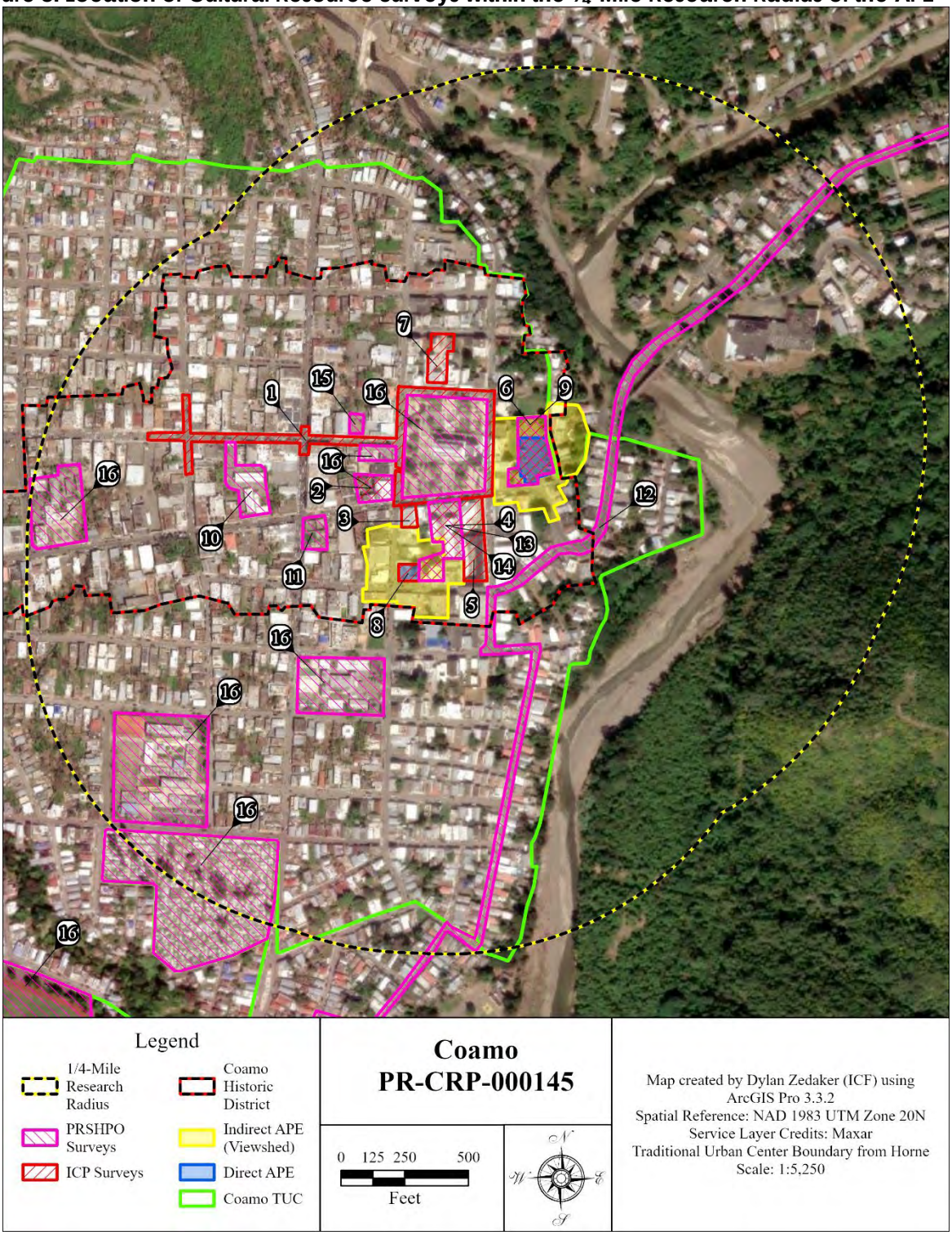


**Figure 6 Location of Archaeological Sites within a ¼-Mile Research Radius of the APE**

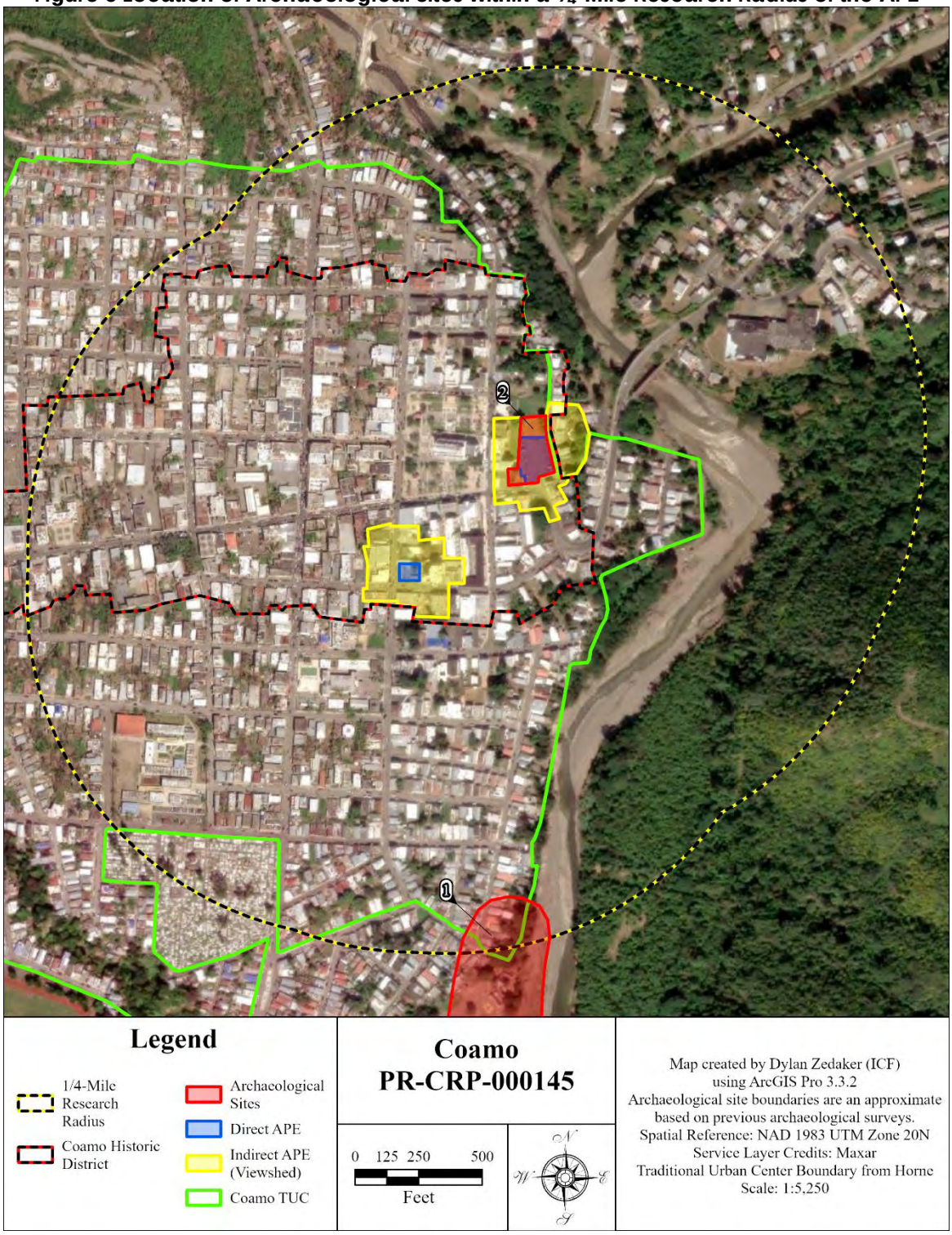


**Figure 7. Location of Archaeological Sites within a ¼-Mile Research Radius of the APE**

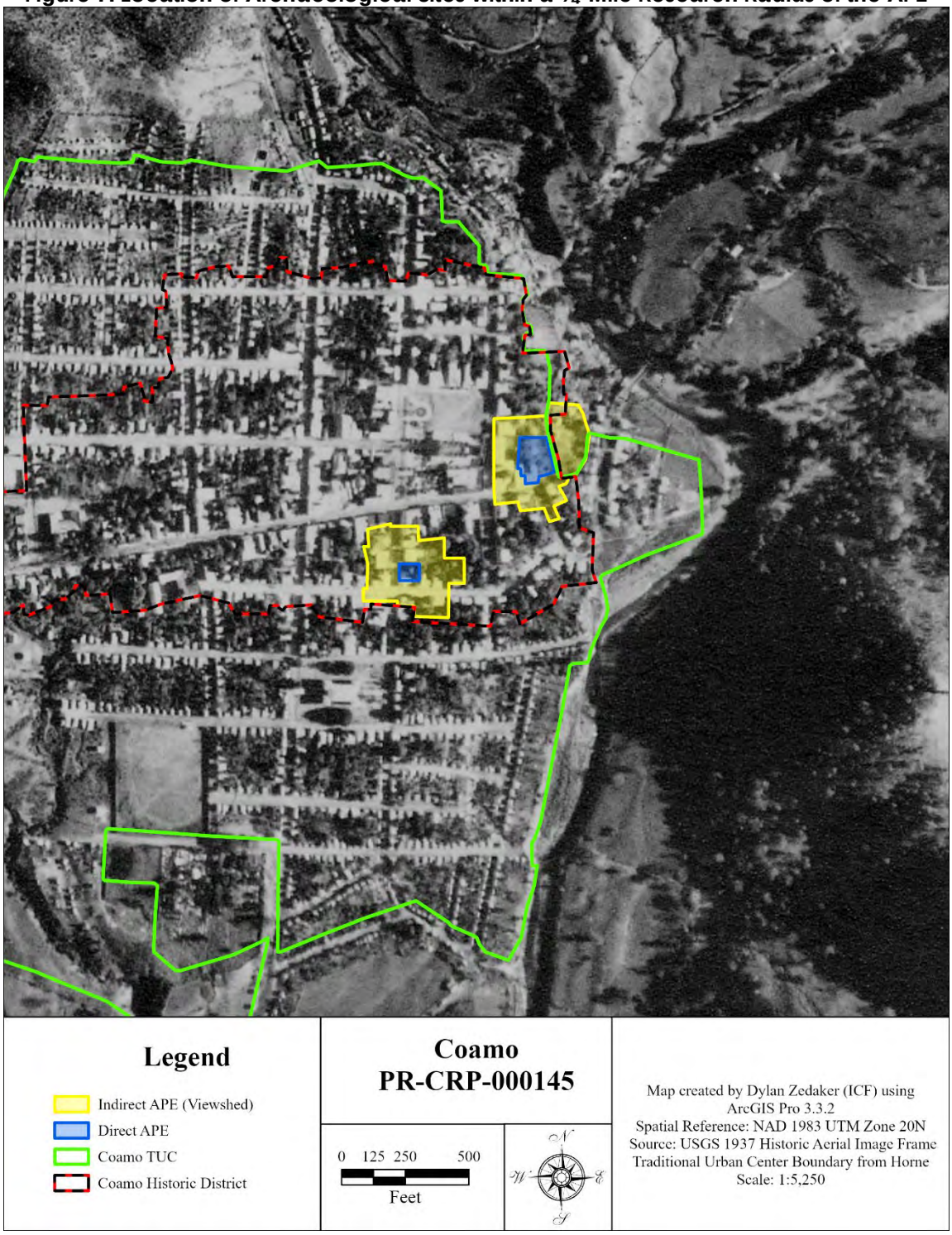


**Figure 8. Historic Aerial Map (1958) of the Coamo TUC**

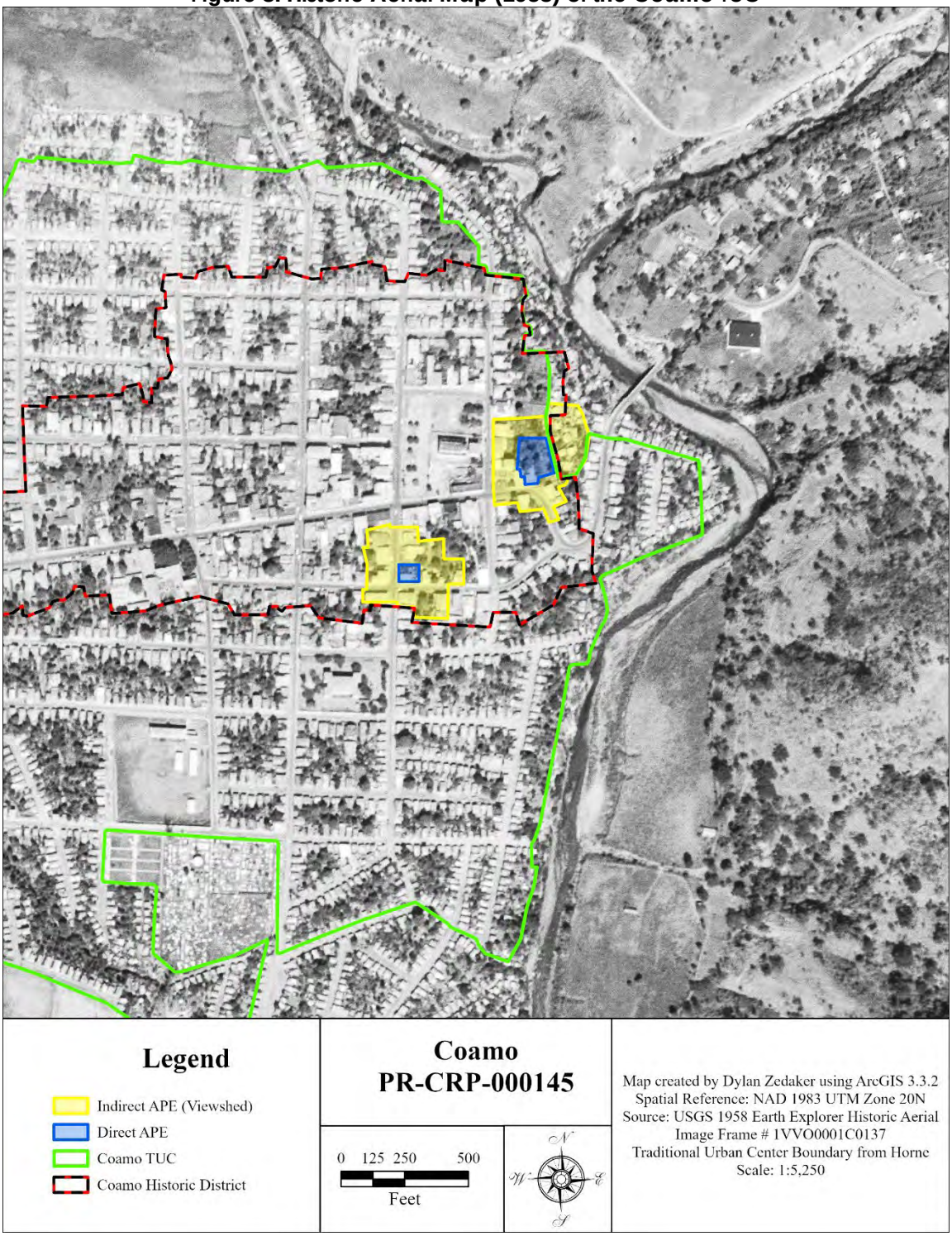


**Figure 9. Historic Aerial Map (1967) of the Coamo TUC**

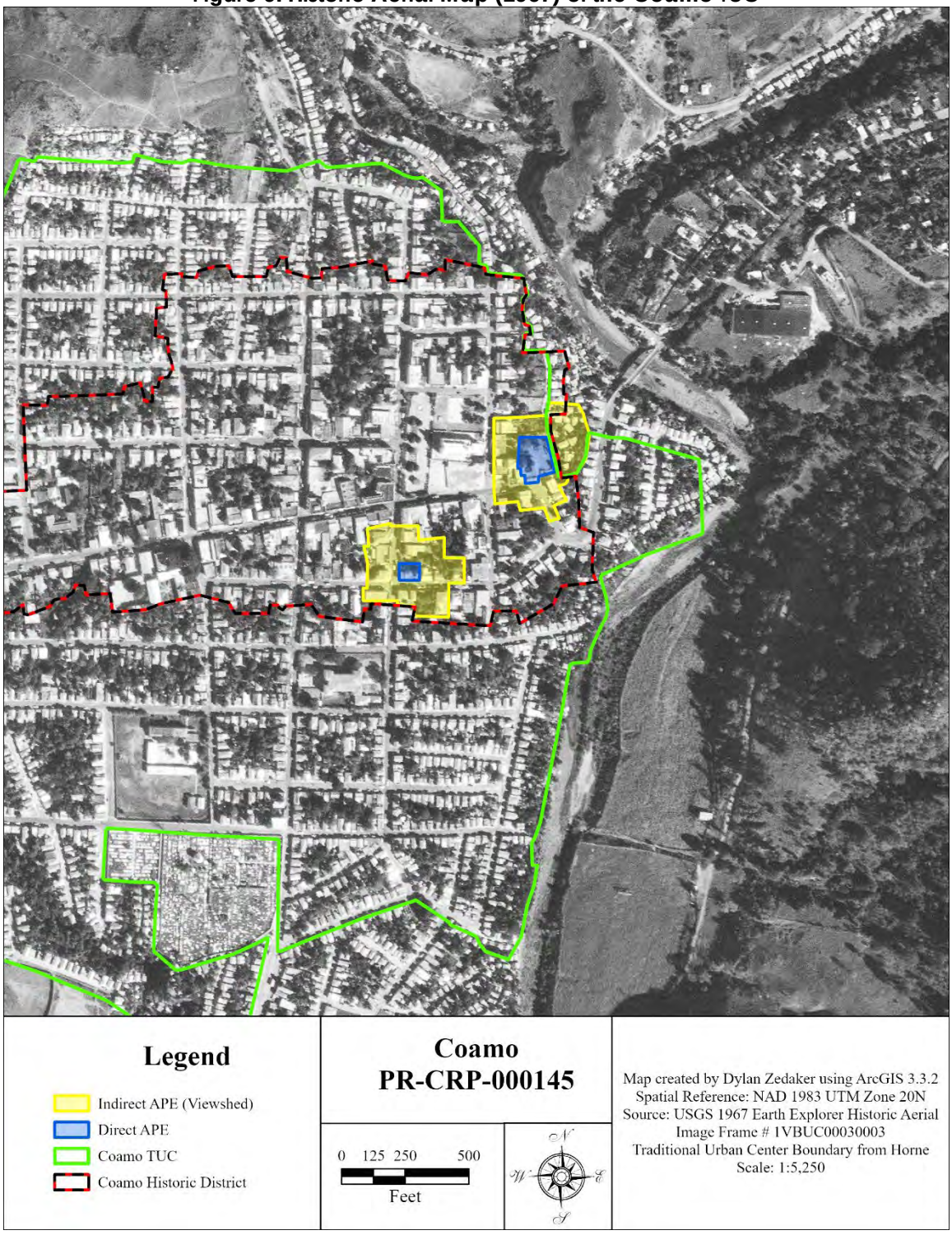


**Figure 10. Historic Aerial Map (1977) of the Coamo TUC**

**Figure 11. Historic Topographic Map (1946) of Coamo TUC**

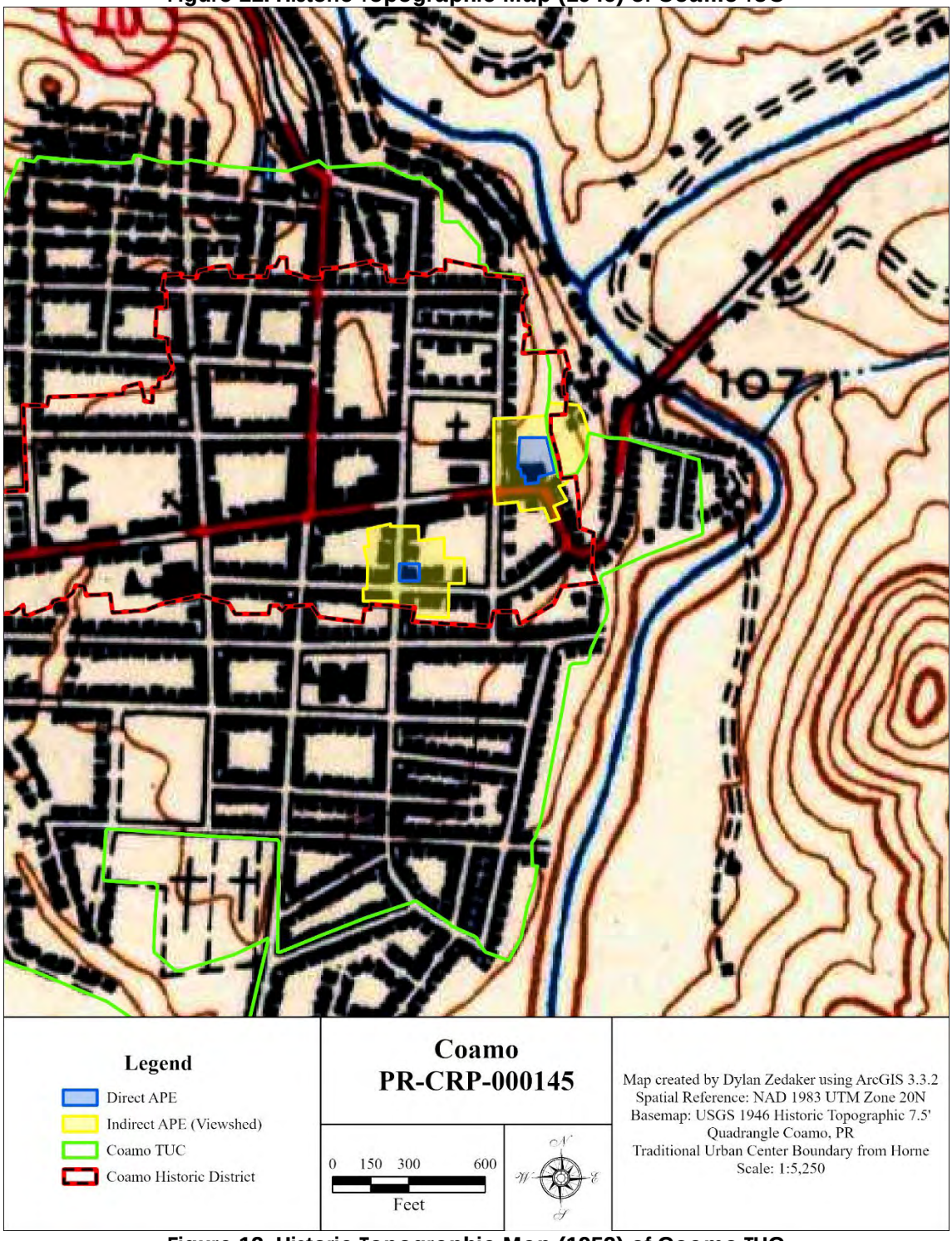



**Figure 12. Historic Topographic Map (1952) of Coamo TUC**

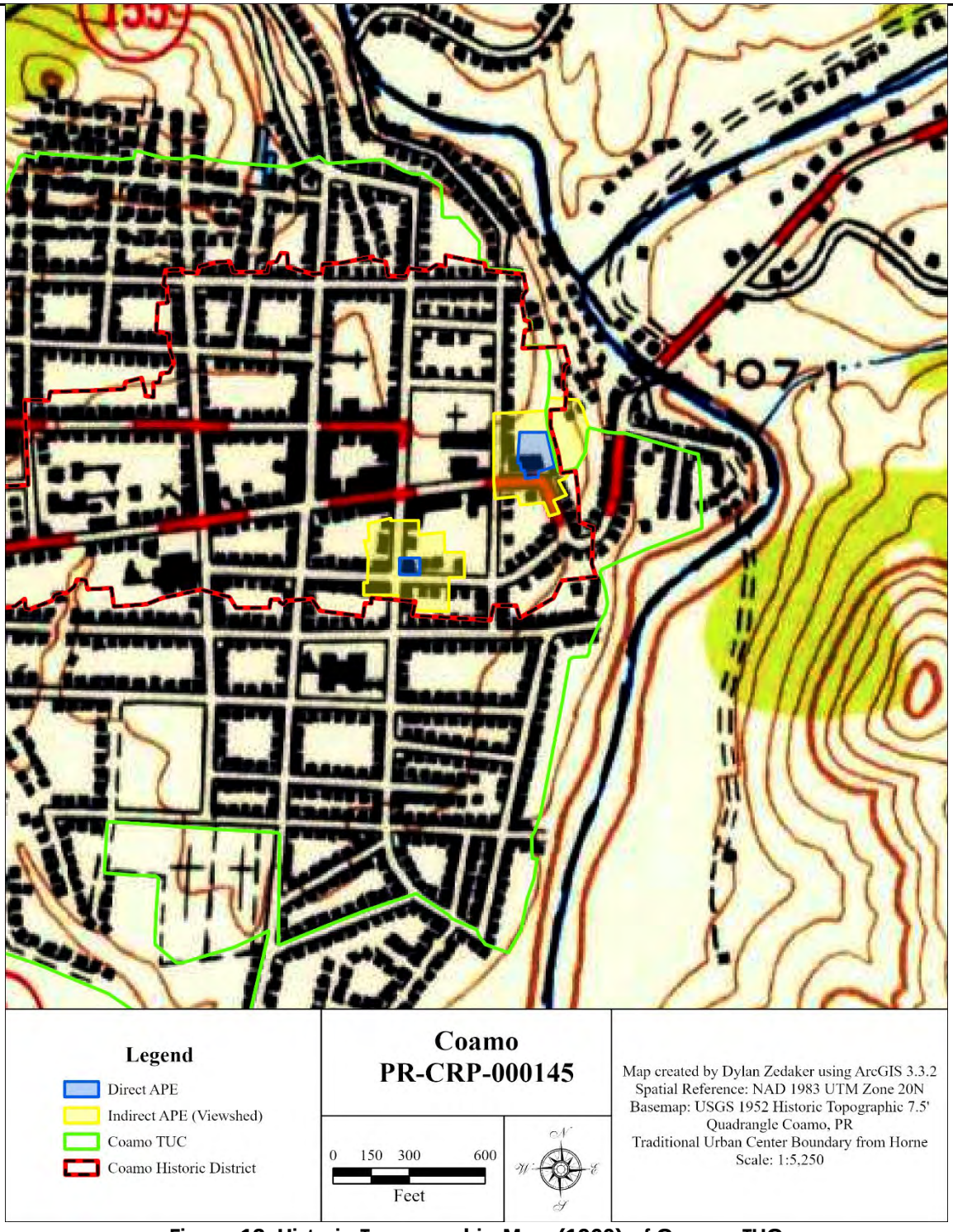



**Figure 13. Historic Topographic Map (1960) of Coamo TUC**

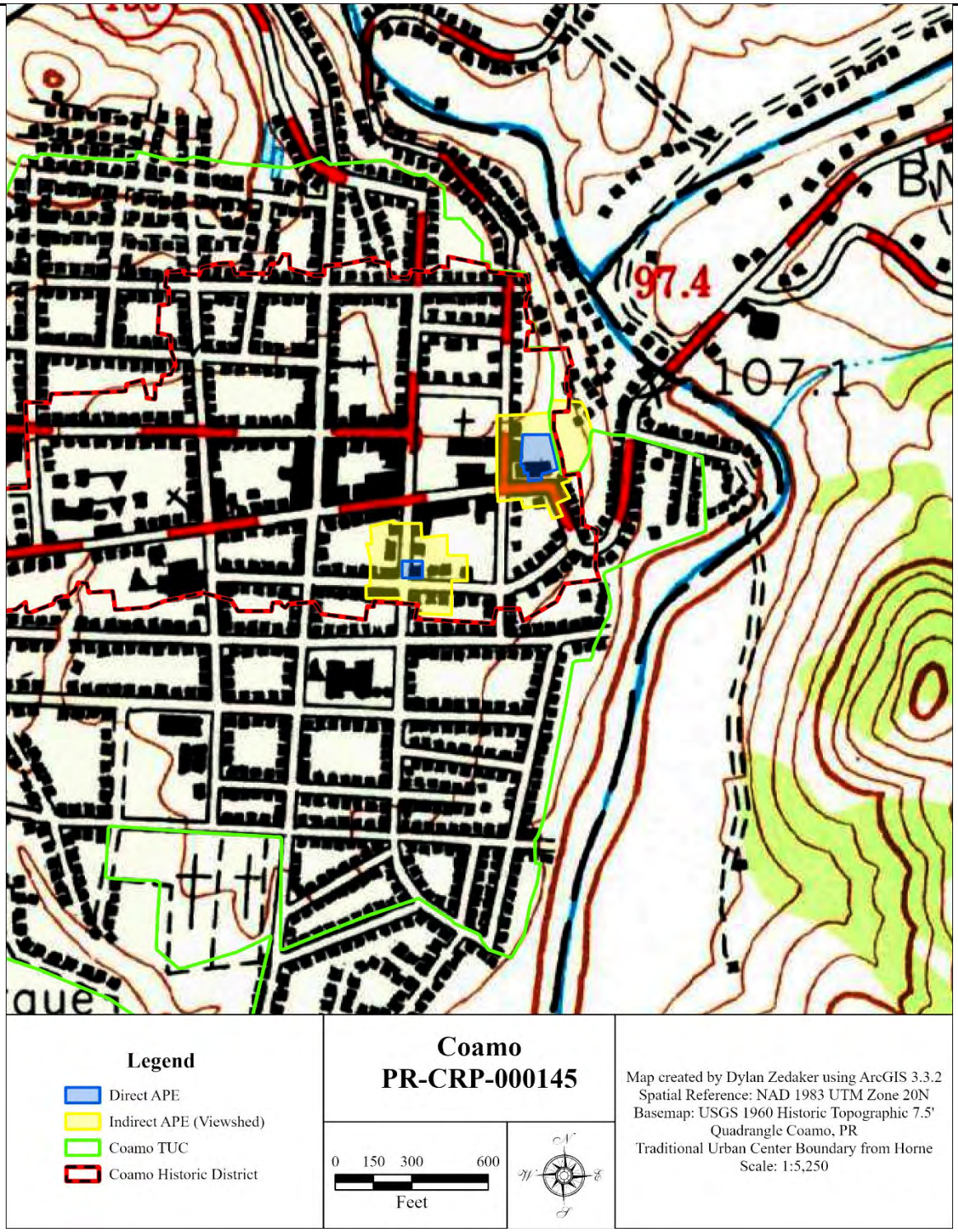
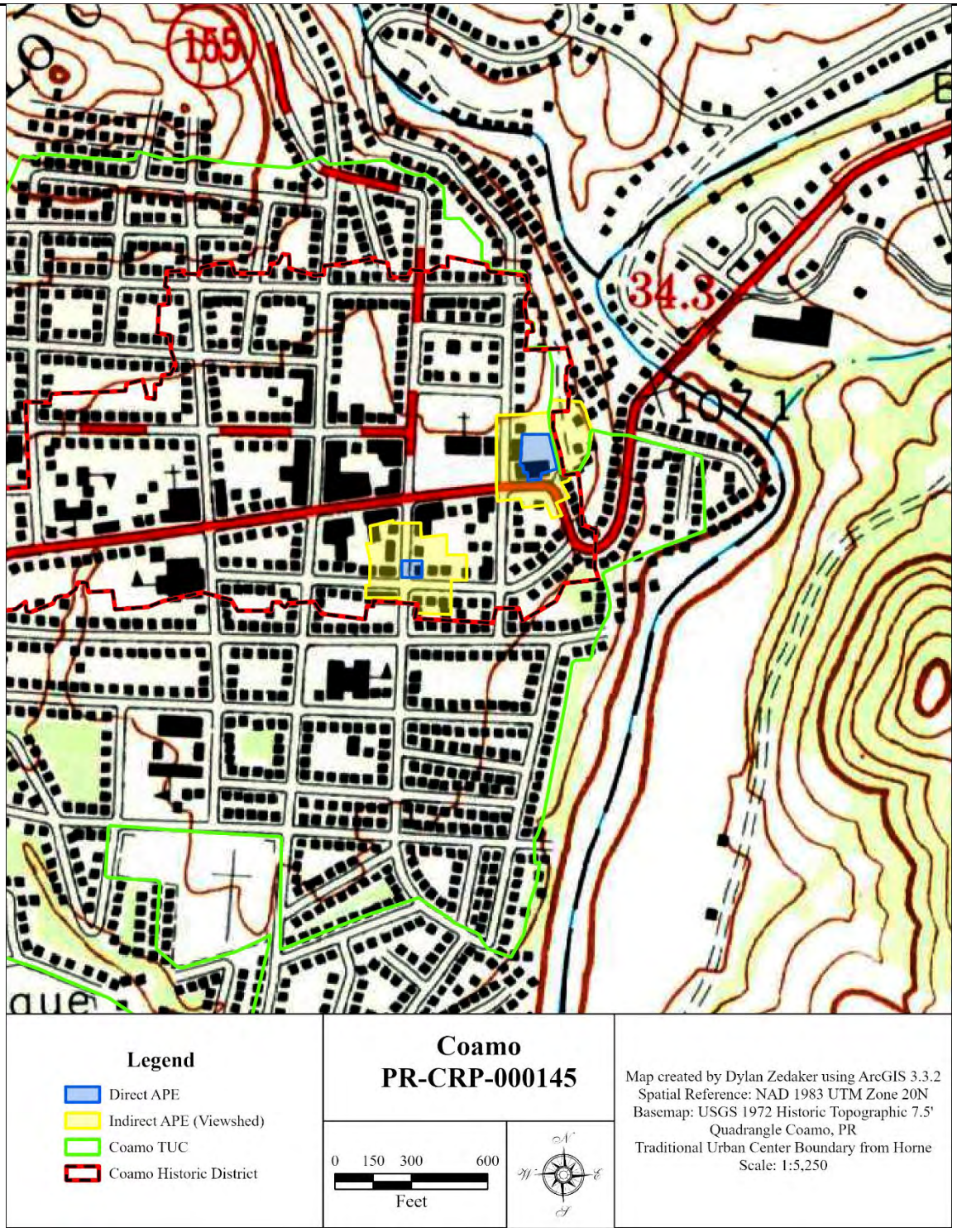



**Figure 14. Historic Topographic Map (1972) of Coamo TUC**


155
34.3
10
71
Legend
Direct APE
Indirect APE (Viewshed)
Coamo TUC
Coamo Historic District
Coamo
PR-CRP-000145
0 150 300 600
Feet
Map created by Dylan Zedaker using ArcGIS 3.3.2
Spatial Reference: NAD 1983 UTM Zone 20N
Basemap: USGS 1972 Historic Topographic 7.5' Quadrangle Coamo, PR
Traditional Urban Center Boundary from Horne
Scale: 1:5,250

**Conclusions**

Based on the pre-Columbian archaeological sites known in the area and the antiquity of the colonial settlement that occurs in the urban center of Coamo, considered one of the oldest on the island of Puerto Rico, the archaeological sensitivity of the urban center of Coamo is evaluated between moderate to high, mainly when working in the traditional historic center that occupied the Villa de Coamo between 1572 and 1900. Based on the archaeological, historical, and architectural characteristics of the Coamo Historic Zone, and the examination of the archaeological evidence it can be set that the urban center of Coamo is of moderate to high archaeological sensitivity. Based on the positive results of the archaeological study, Phase IA / IB of the project Pisos de Coamo, located on Calle Florencio #26, corner of Dr. José Celso Barbosa Street, Barrio Pueblo, Coamo, realized by Archaeologist Medina-Carrillo in 2020, we can stipulate the following.

1. The founding area of the village of Coamo dates from 1579. The parcel under evaluation is 159 meters southeast of Coamo Main Square and is part of the Coamo Historic District (JP Resolution 95-66-005-JP-ZH, July 19, 1995).

2. There is evidence of pre-Columbian occupation of the urban area of Coamo, within a radius of 0.279 miles (450 meters) to the southeast of the project parcel. PRCO003 (Buenos Aires) site contains evidence of a settlement (village) of the late Cedrosan Saladoid period with Cuevas-style ceramic evidence. In the streets around Coamo city square, fragments of Capá style ceramics have been recovered, this positive area is 90 meters north of the project site.

3. It is well recognized that an old Indian Road runs very near, in a West-East direction, at present José I. Quinton Street, located 80 meters north of the parcel under evaluation. This Indian Road connected the coastal zone, formerly called Coamo Abajo, (today Santa Isabel) with the high mountains of Aibonito and the Sierra of Cayey. This road was an important trade and communication route between the south coast of the Island and the high mountains of the Sierra de Cayey.

4. A Phase IA/IB study was conducted by Archaeologist N. Medina-Carrillo in 2020 on the site under evaluation with positive results. During the Phase IB investigation, thirteen (13) mechanized small trenches were excavated throughout the plot. The results concluded with the evidence of historical material in three (3) of them. The positive test bores were coded C1, C2 and D4. The archaeologist, N. Medina-Carrillo, recommended conducting an Archaeological Monitory during the construction of the project under evaluation.

Based on the analysis, the positive results of Phase IB, and other positive investigations in this same Historic Zone of Coamo, we understand that the plot under evaluation requires an additional phase of archaeological investigation. The Phase IA-IB report recommended Archaeological Monitoring of this site during the project construction phase. On this recommendation, the Archaeology and Ethno History Program of ICP agreed and requested the Archaeological Monitoring Plan to be presented. On the other hand, the

PR-SHPO disagreed with the monitory recommendation and requested a Phase II Plan for the plot. The Phase II Plan was prepared by N. Medina and delivered to the Municipal Government of Coamo in 2022 (See Attachment 5).

**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 parcel is located within the boundaries of the NRHP eligible Coamo TUC and also within it's the locally listed Coamo Historic Zone, which was presented by the Institute of Puerto Rican Culture and declared by the Junta de Planificación de Puerto Rico a Historic Zone on August 22, 1995, because of its year of foundation (1579) and its valuable architectural patrimony. The proposed project APE is also located within the Coamo's Historic Zone, protected under Puerto Rico's Law 374, of May 14, 1949, as amended, known as The Puerto Rico Historic Zones Act. Existing information on NRHP-listed or eligible districts and individual properties as well as historic properties designated by the ICP has been reviewed at the PRSHPO and ICP offices, to determine if any such properties are located the within the APE and within the ¼ mile research radius. This review identified. . .( ) properties within the research radius, of which ( ) are within the indirect APE and none within the direct APE.

The project proposes to construct an in-fill small commercial/residential three-story building in the parcel. There were two historic buildings that previously occupied the parcel that were demolished. The first one, a one-story wood house, which appears to have been constructed circa 1936, was demolished in the mid 1940's. The second one, also a wood one-story house, was demolished in the mid 1990's. Around 1996 an aluminum roof with steel columns was built in the parcel as an area for the exhibition of cars of a car dealer that rented the property. A small accessory building, made of concrete blocks and wood panels, apparently built after the second house was built, was reused for the car dealer office and a small area of wood panels and zinc roof was added to it. The aluminum roof and the small wood and concrete blocks accessory building are the only two structures in the project parcel at present time and both are much deteriorated. As reviewed, neither of them has any historic or architectural value. This was confirmed and stated by ICP conservation architect for the Coamo Historic Zone, Jorge Ortiz Colom, in ICP letter of endorsement for the Pisos de Coamo project. In addition, ICP issued a "No Objecion" or No Objection recommendation to the proposed project in letter. (See Attachment 1, ICP's attachment letter of December 12, 2019).

Three historic buildings, listed in the National Register of Historic Places, are located a block to the North of the undertaking. These are: the main Catholic Church of Coamo, San Blas de Illescas (84000463),that was listed in December 1984; Casa Bernier (Casa Blanca), that was listed on April 1992 and Casa Pico Pomar (88000961), that was listed in July 1988. All these three historical buildings are located outside the APE of the undertaking.

**Table 3. NRHP-listed Historic Properties (Architecture) within a Quarter-Mile Radius of the Viewshed/Indirect APE**

| ID | NAME AND ADDRESS | INCLUSION DATE | NRHP NUMBER | CATEGORY | CRITERION |
|---|---|---|---|---|---|
| 1 | Puente Padre Inigo / Puente #174 /Puente de Coamo | July 19, 1995 | 95000840 | Structure | A and C |
| 2 | Casa Blanca | April 28, 1992 | 92000379 | Building | C |
| 3 | Iglesia San Blas de Illescas | December 10, 1984 | 84000463 | Building | A; Criteria Consideration A |
| 4 | Residencia Pico Pomar | July 12, 1988 | 88000961 | Building | C |
| 5 | Carretera Central | May 2, 2019 | SG100003686 | District | A and C |
| 6 | Ermita de Nuestra Señora de la Valvanera | March 31 1985 | 6000700 | Building | A; Criteria Consideration A |

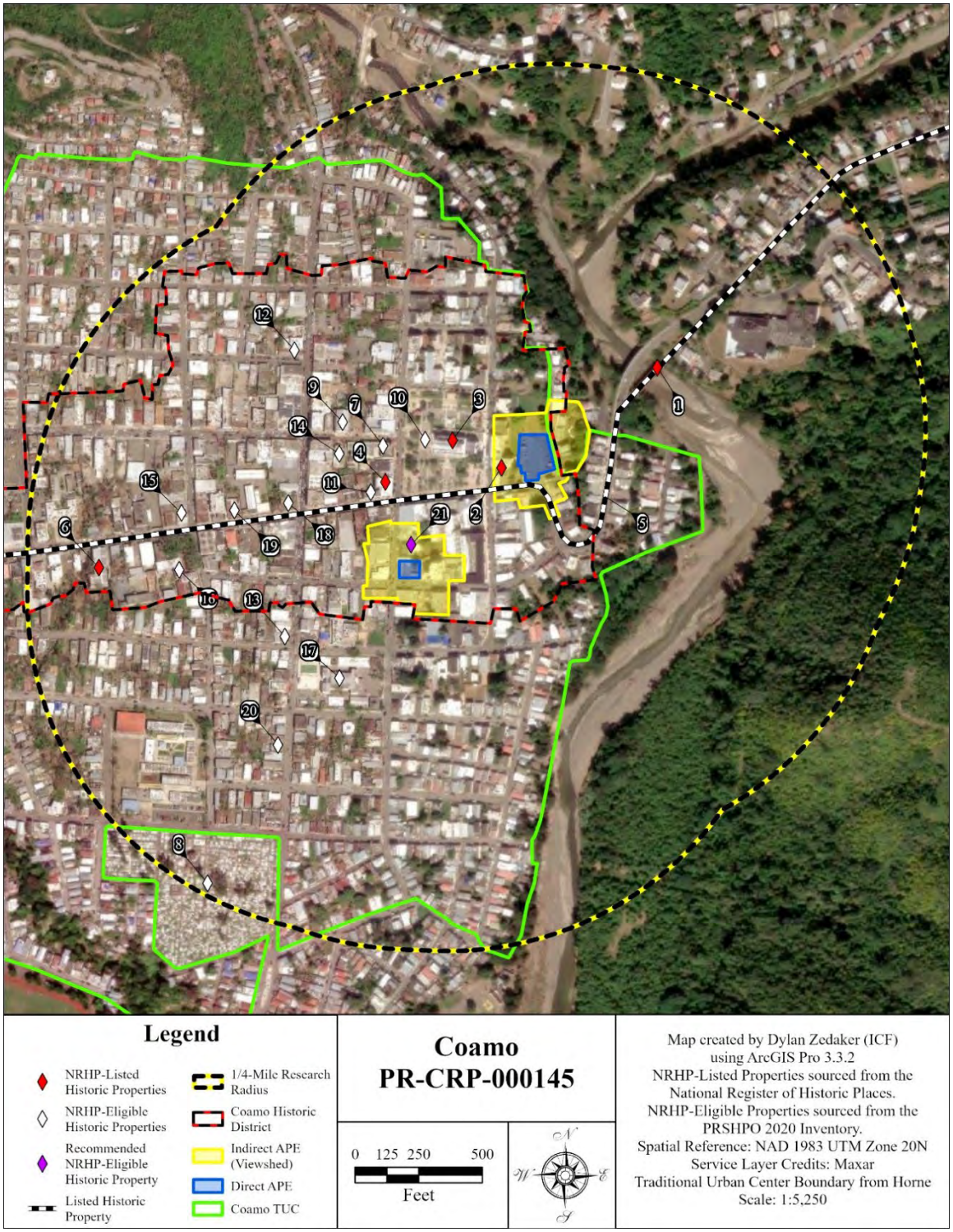
**Table 4. NRHP-Eligible Historic Properties (Architecture) within a Quarter-Mile Radius of the Viewshed/Indirect APE (Per the SHPO 2020 Inventory)**

| ID | NAME | APPROXIMATE DATE | CATEGORY |
|---|---|---|---|
| 7 | Coamo Alcaldía | 1922 | Building |
| 8 | Cementerio Municipal, Civil y Católico | c 1876-1921 | Site |
| 9 | Teatro Hollywood | c 1918 | Building |
| 10 | Coamo Plaza | c 1570-1616 | Site |
| 11 | Museo de Historia Ramón Rivera Bermúdez | c 1840 | Building |
| 12 | Comercial De Jesús | c 1915 | Building |
| 13 | Casa en calle Herminio Santaella | c 19th century | Building |
| 14 | Logia Masónica Fiat Lux Núm. 27 | c 1895 | Building |
| 15 | Primera Iglesia Bautista de Coamo | c 1902 | Building |
| 16 | Colegio Nuestra Señora de Valvanera | c 1927 | Building |
| 17 | Escuela José Ramón Rodríguez | c 1946 | Building |
| 18 | Farmacia Betances | c 1888 | Building |
| 19 | El Casino | c 1882 | Building |
| 20 | Casa en calle Willie Rosario 36 | c 1950 | Building |

**Table 5. NRHP-Eligible Historic Properties (Architecture) Within of the Viewshed/Indirect APE (Per the SOI recommendation)**

| ID | NAME | APPROXIMATE DATE | CATEGORY |
|---|---|---|---|
| 21 | Casa Borelli | c. 2nd half 19th century | Building |

**Figure 14. Location of Architectural Properties within a ¼-Mile Research Radius of the APE**



**NRHP-listed Historic Properties (Architecture) within a ¼ Mile Radius of the Viewshed/Indirect APE (See Table 3)**

**ID #2. CASA BLANCA (BERNIER RESIDENCE) (NRHP** 92000379 / **CO0200004)**
This residence was constructed in the Spanish Creole and neoclassical architectural style. It was designed by Raymond Camprubi and constructed in1865. It is included in the National Register of Historic Places in Washington D.C. Some of its characteristic elements include the use of masonry, wooden columns, and continuous and projected panels.

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33)

**NRHP-Eligible Historic Properties (Architecture) Within of the Viewshed/Indirect APE (Per the SOI recommendation) (See Table 5)**

**ID #21. CASA BORELLI**

Residential building constructed by the end of the nineteenth century in the creole architectural style, with neoclassical elements of french inspiration. It was built in concrete masonery and wood, with some cast iron elements and plaster ornaments. Unlike other structures of that time, this one moved away from the idea of sharing a party wall, having wide lateral patios, a front garden with an elegant entry stairway and an ample back patio. Some of its principal characteristics are contained in its main façade, with its architectural ornamentation and the symmetry of four doors, as well as the continuity of the balcony. This building, with its beautifull proportions, can be defined as an example of the architectural variety that existed on the island at the time of the change of sovernty in 1898. This structure is elegilble for the National Register of Historic Places (NRHP).

**NRHP-Eligible Historic Properties (Architecture) within a 1/4 Radius of the Viewshed/Indirect APE (Per the SHPO 2020 Inventory) (See Table 4)**

**ID #3. CHURCH SAN BLAS DE ILLESCAS –(CO0200001)**
The oldest structure in Coamo is San Blas de Illescas. It was constructed in the Latin American baroque style. It was founded in 1579, making it the oldest religious structure in Coamo and the third oldest in Puerto Rico. This is the most important building of the town of Coamo and its history.
(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33)

**ID #4. PICÓ POMAR RESIDENCE/MUSEUM OF THE HISTORY OF COAMO RAMÓN RIVERA BERMÚDEZ**
This Spanish neoclassical building is from 1840. Now it is The Museum of the History of Coamo. Originally it was the family residence of a wealthy family with numerous rooms, interior patios and its colonial style reflected in details such as its linear moldings, repetitive openings and the second floor balconies. Lat: 18°04'48.8"N Lon: -66°21'24.9"W
(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33)

**ID #6. HERMITAGE/CHURCH OF OUR LADY OF VALVANERA**

Built between 1684 and 1685, during colera epidemym this hermitage is a mix between the neoclassical and the spanish colonial architectural style. The structure is registered in the National Register of Historic Places in Washington D.C. It has an important value as a religious, historical, and architectural structure. It is the second oldest religious building in Coamo. Constructed in masonry, it consists of a rectangular floor plan divided in two sections. The original structure was restructured in 1894.

SOURCE: ERMITA NUESTRA SENORA DE LA VALVANERA (Coamo): Ce qu'ilfaut savoir pourvotre visite (avecphotos) (tripadvisor.ca)

**ID #7. COAMO CITY HALL**

The City Hall was built in 1922. It is a two floor concrete spanish revival architectural style structure. It is the only structure of spanish revival in Coamo. Some of the spanish revival elements that stand out are moldings with unique decorative designs, pilasters and the use of clay roof tiles. The balconies on the second floor highlight the volumetry of the asymmetrical towers with a clock in the taller one, which is located in the right corner, accentuating the intersecction of the Baldorioty and Brashi streets, two of the main arteries of the Traditional Urban Center.

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pgs. 15-33)

**ID #9. HOLLYWOOD THEATER (BEFORE CORTÉS THEATER)**

The Hollywood Theater, before the Cortés Theater, is a building from 1918. It's the only structure in Coamo with an art deco architectural style, mostly present on its façade elements. The theater was restored in 2012 and it has continued its original use as a theater and as a cultural facility.

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33).

**ID #15. FIRST BAPTIST CHURCH OF COAMO**

This church was built in 1902; it is a masonry structure in the neo-gothic architectural style. It manifests itself as a symbol of freedom of religious expression, due to its location in front of the Valvanera hermitage. Its neo-gothic elements can be seen in the elements of pointed arcs windows and doors, characteristic of this style of architecture.

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33).

**ID #18. BETANCES PHARMACY**

This Spanish neoclassical building is from 1888. Its historical typylogy has been as a commerce, and it continues to be a commerce to the present day. It was originally owned by Manuel Betances, pharmacist and also mayor of Coamo, between 1899 to 1911. It maintains its straight and simple architectural elements, without exaggerated ornamentation, as well as its masonry materiality. Lat: 18°04'48.3"N Lon: -66°21'28.6"W

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33)

**ID #19. El CASINO DE COAMO**

This Spanish neoclassical building is from 1882. Historically it has been the center of Coamo's social life. The structure was originally built by Florencio Santiago; it is made of masonry and brick. Throughout history it has served as a central place for civic and social activities. Some of its important vernacular style elements are its large frontal balcony, the wooden balustrade with wood columns, the four symmetrical doors and the typical wood moldings in the main façade.

(SOURCE: Oficina Estatal de Preservación Histórica, La Arquitectura de Coamo, 1996. Pages 15-33)

ATTACHMENTS

1. OGPE 2019-295028-REA-003712, ICP letter Built Heritage Program (PPHE)
2. OGPE 2019-295028-REA-003712, ICP letter -Archaeology & Ethnohistory Program (PAE) – Program requests Phase IA-IB with construction monitoring.
3. SHPO letter - SHPO-03-08-21-04_March 16, 2021
4. Coamo - Pisos de Coamo - Fase IA-IB Estudio Arqueologico_2020-03-23 by N. Medina
5. Coamo - Pisos de Coamo – Proposed Archaeology Phase II Plan
6. Project Architectural Perspectives
7. Pisos de Coamo, 90% Construction Drawings (2019-12-07)
8. Pisos de Coamo - Excavaciones Cimientos - Planta Tablas Secciones

**Determination**

The following historic properties have been identified within the APE:

Direct Effect:

Based on the results of our historic property identification efforts, we have determined that the project actions will not affect the historic property within the visual APE.

- Casa Borelli (c. 1890) - The project will not have an adverse direct effect on Casa Borelli.
- The project will not have an adverse direct effect on Coamo's Traditional Urban Center, on its Historic Zone, or the historic properties within the APE.
- Coamo's TUC and its Historic Zone are eligible for the National Register of Historic Places (NRHP).
- The Built Historical Heritage Program of the ICP issued a favorable recommendation for the proposed project. The proposed small building provides for new commercial space and housing units in the Coamo TUC and its Historic Zone, as part of the Municipality of Coamo Revitalization Plan for its Traditional Urban Center.
- A Phase IA/IB study was conducted by Archaeologist Norma Medina-Carrillo in 2020 on the site under evaluation with positive results. During the Phase IB investigation, thirteen (13) mechanized bores were excavated throughout the plot. The results concluded with the evidence of historical material in three (3) of them. The positive test bores were coded C1, C2 and D4. The archaeologist, Norma Medina-Carrillo, recommended conducting an Archaeological Monitory during the construction of the project under evaluation.
- Based on the analysis, the positive results of Phase IB, and other positive investigations in this same Historic Zone of Coamo, we understand that the plot under evaluation requires an additional phase of archaeological investigation. The Phase IA/IB report recommended Archaeological Monitoring of this site during the project construction phase. On this recommendation, the Archaeology and Ethno history Program of ICP agreed and requested the Archaeological Monitoring Plan to be presented. On the other hand, the PR-SHPO disagreed with the monitory recommendation and requested a Phase II Plan for the plot. The Phase II Plan was prepared by Norma Medina and delivered to the Municipal Government of Coamo in 2022.

Indirect Effect:

The project does not present risks to the archaeological resources located in the Visual APE.

| PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR<br>PROGRAM CITY REVITALIZATION PROGRAM (CRP)<br>Section 106 NHPA Effect Determination | |
|---|---|
| **Subrecipient: Municipio de Coamo** | |
| **Project Name: Proyecto Residencial Comercial Pisos de Coamo FS26** | |
| **Project Number: PR-CRP-000145** | |

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

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

☐ No Historic Properties Affected
☒ No Adverse Effect

Condition (if applicable): PRSHPO in letter SHPO-03-08-21-04, dated March 16, 2024, did not review the project since with the new request of CDBG-DR CRP funds, only the Puerto Rico Department of Housing could initiate Section 106 consultation. Nevertheless, they anticipated an intensive (Phase II) archaeological survey of the project area and the work plan to implement such a survey should be prepared and submitted as part of the consultation process. The Phase II Plan (updated April 22, 2024), attached to this Section 106 EDF, was prepared by archaeologist Norma Medina and delivered to the Municipal Government of Coamo in 2022.

☐ Adverse Effect

Proposed Resolution (if appliable)

**This Section is to be Completed by SHPO Staff Only**

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

**Project Parcel Location: Project Site and Project Staging Area (Aerial)**

Not to scale

LEGEND:
A PROJECT SITE
B PROJECT DESIGNATED STAGING AREA

Source:
Catastro Digital https://catastro.crimpr.net/cdprpc/

**Project Parcel Location: Project Site Direct and Indirect/Visual APE Map (Aerial)**

Not to scale

Legend:

Project Site - Direct APE

Project Site – Indirect/Visual APE

Source: Catastro Digital https://catastro.crimpr.net/cdprpc/

**Project Parcel Location:**
**Direct and Indirect/Visual APE with length and width measures Map (Aerial)**

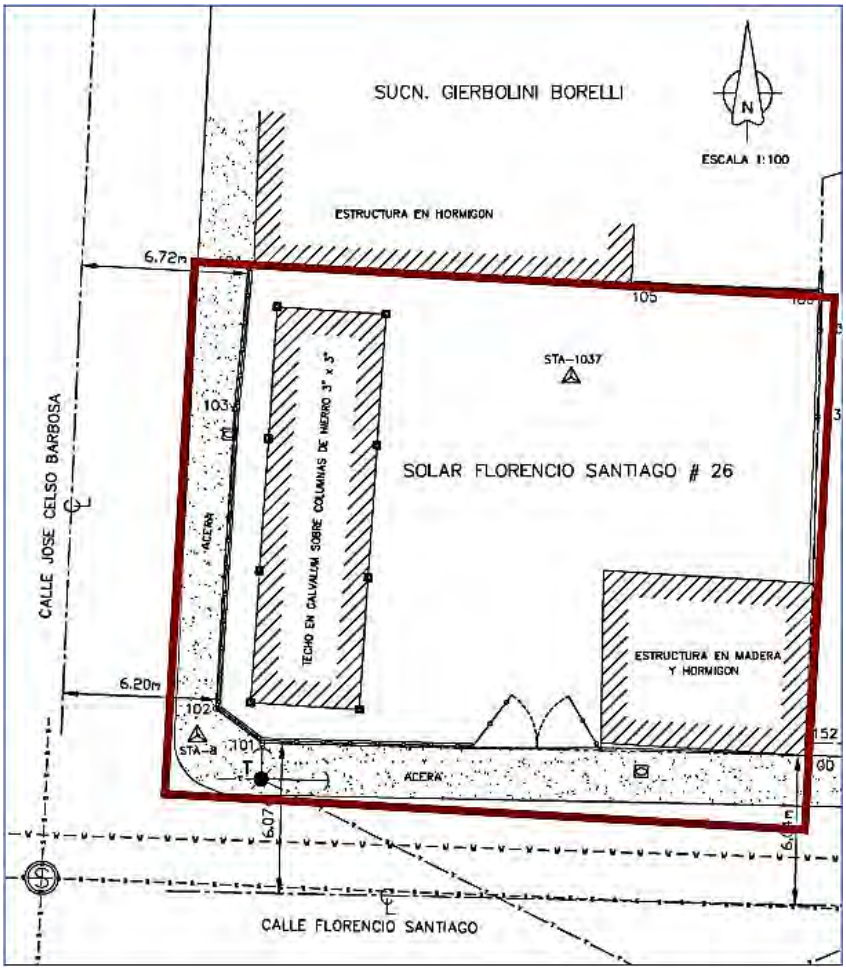
Not to scale

Legend: A Project Site - Direct APE with length and width measures

B Project Site – Indirect/Visual APE with length and width measures

Source: Catastro Digital https://catastro.crimpr.net/cdprpc/

**Project Parcel Location – Site Plan – Survey Plan with location of existing structures**



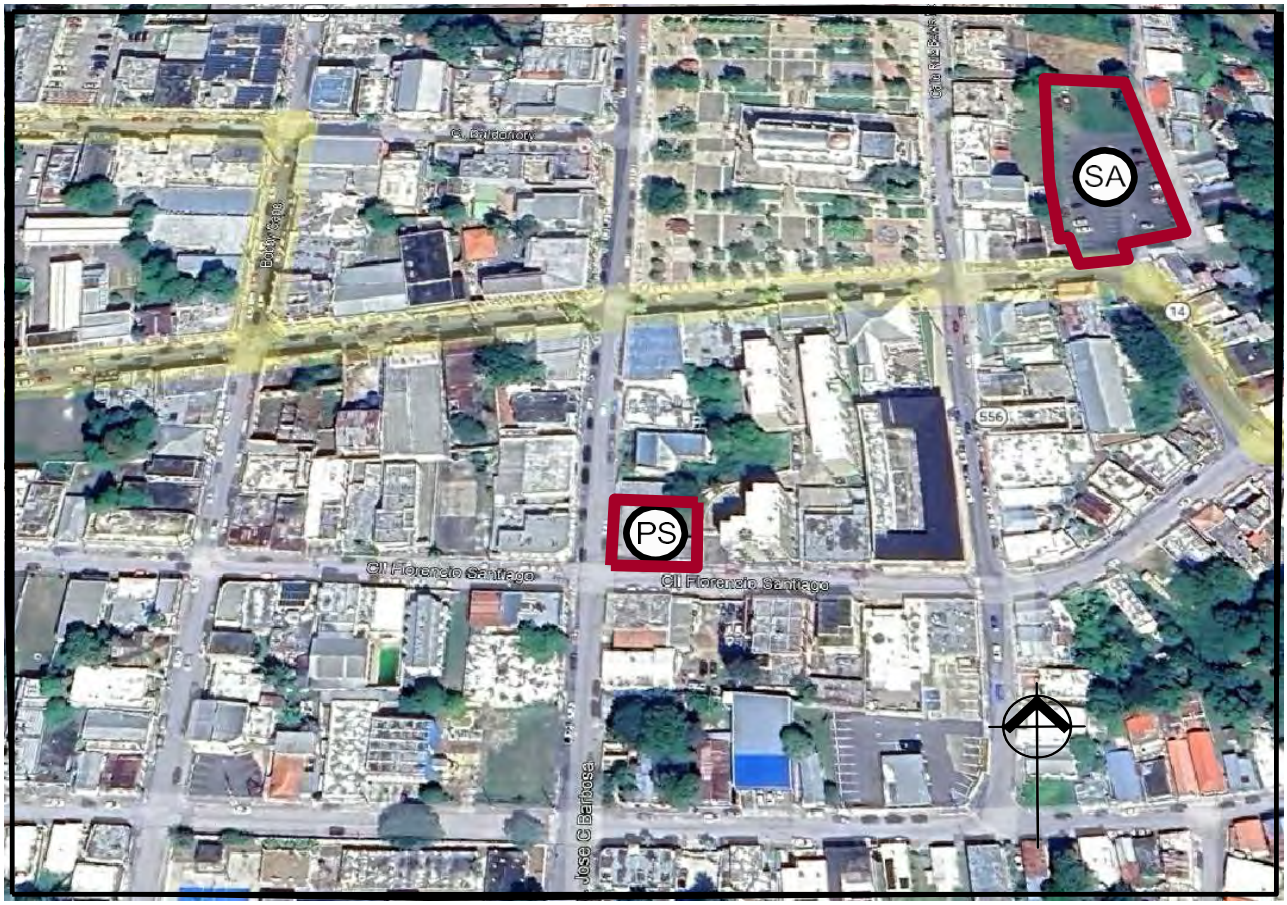

Scale: 1:100

Legend: Project Site - Direct APE

Existing Structures on Site

Source: Sánchez Arana Architects

**Project Parcel Location – Direct APE - Aerial Map (Goggle Map 2023)**



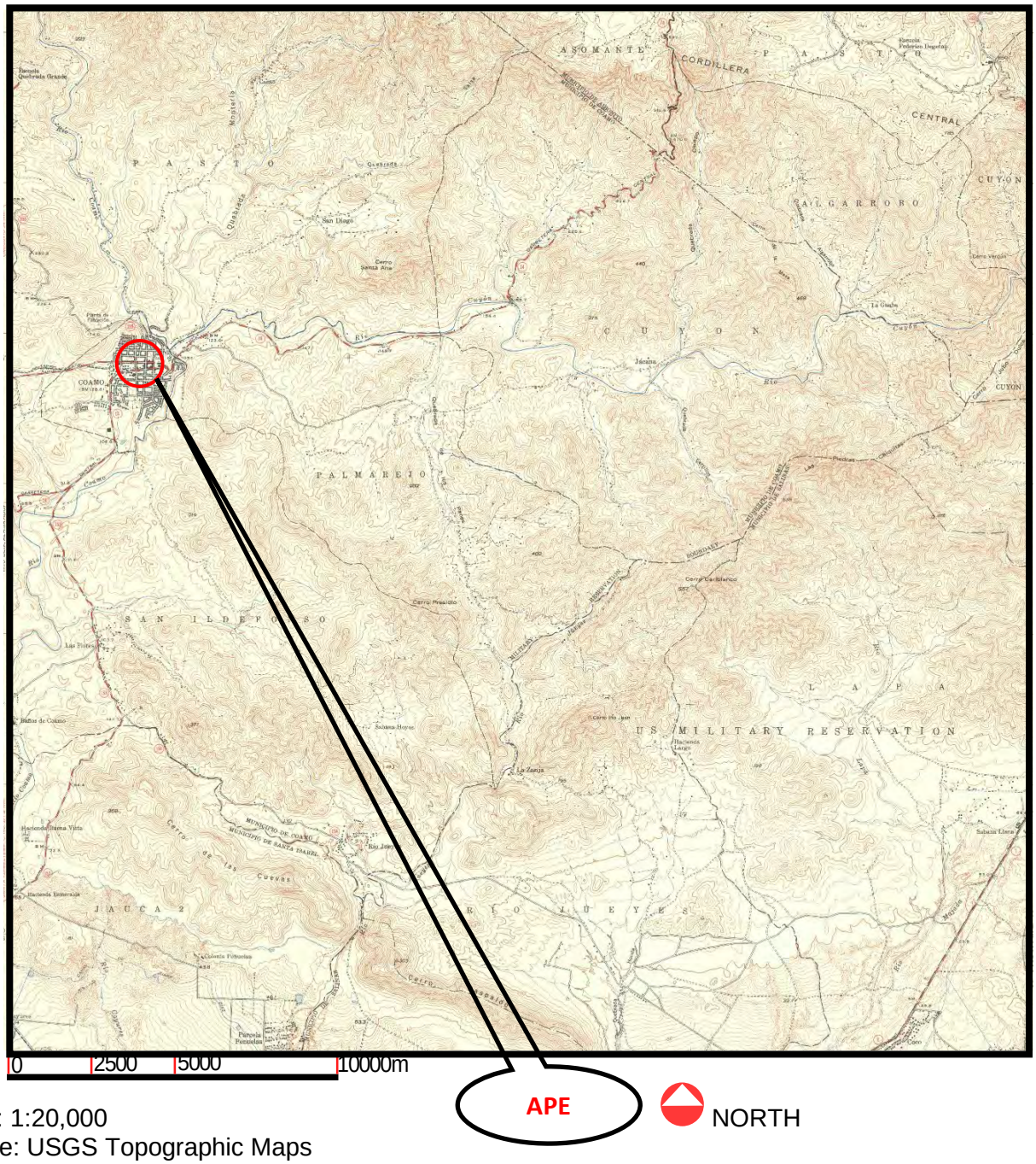

Not to scale

Legend: PS Project Site - Direct APE

SA Project Staging Area

Source: Google Maps

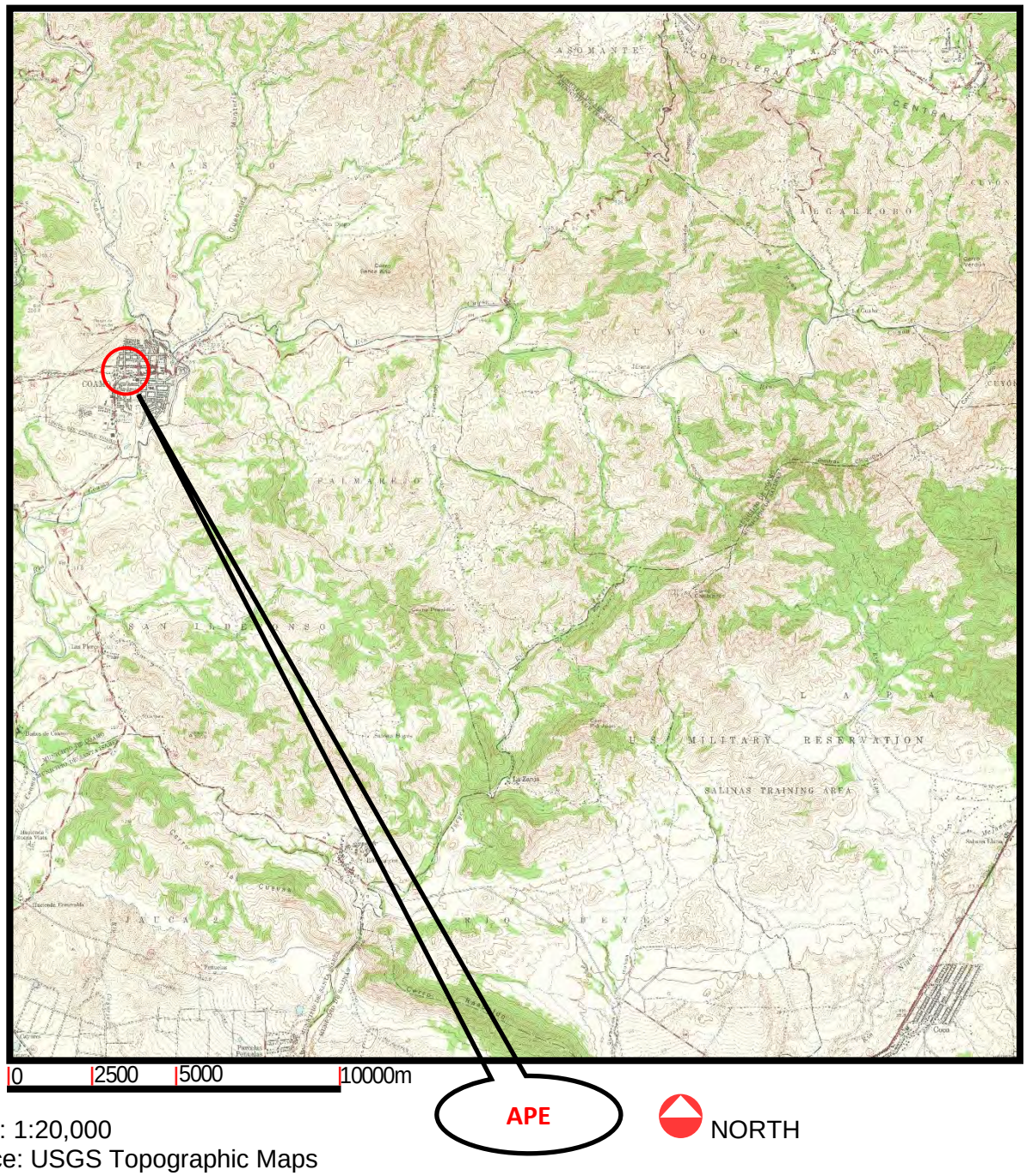
## USGS Topographic Map Coamo 1952[6]




Scale: 1:20,000
Source: USGS Topographic Maps

[6] Get Maps | topoView (usgs.gov)

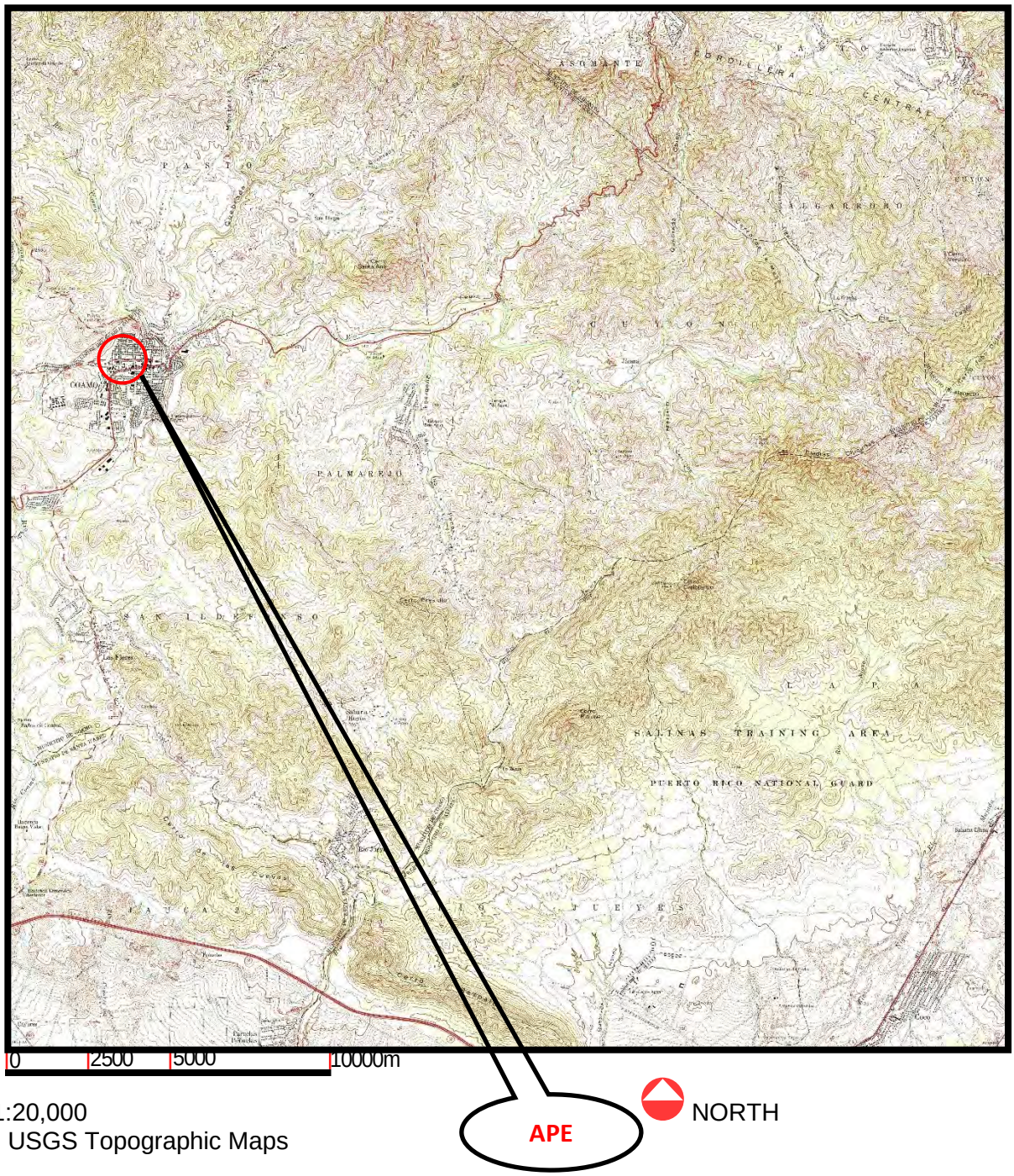
**USGS Topographic Map Coamo 1960**[7]




Scale: 1:20,000
Source: USGS Topographic Maps

[7] Get Maps | topoView (usgs.gov)

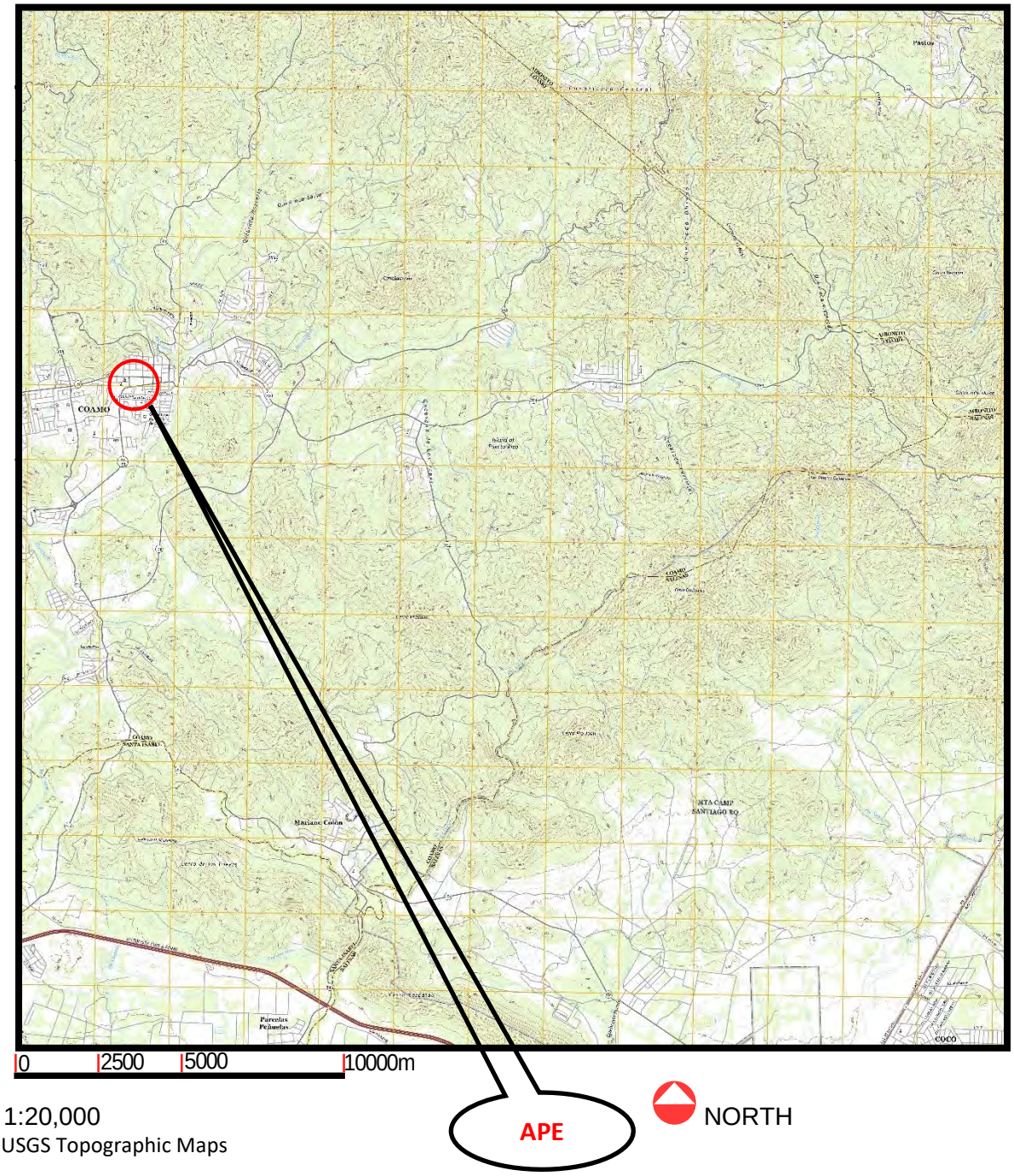
## USGS Topographic Map Coamo 1972[8]




Scale: 1:20,000
Source: USGS Topographic Maps

[8] Get Maps | topoView (usgs.gov)

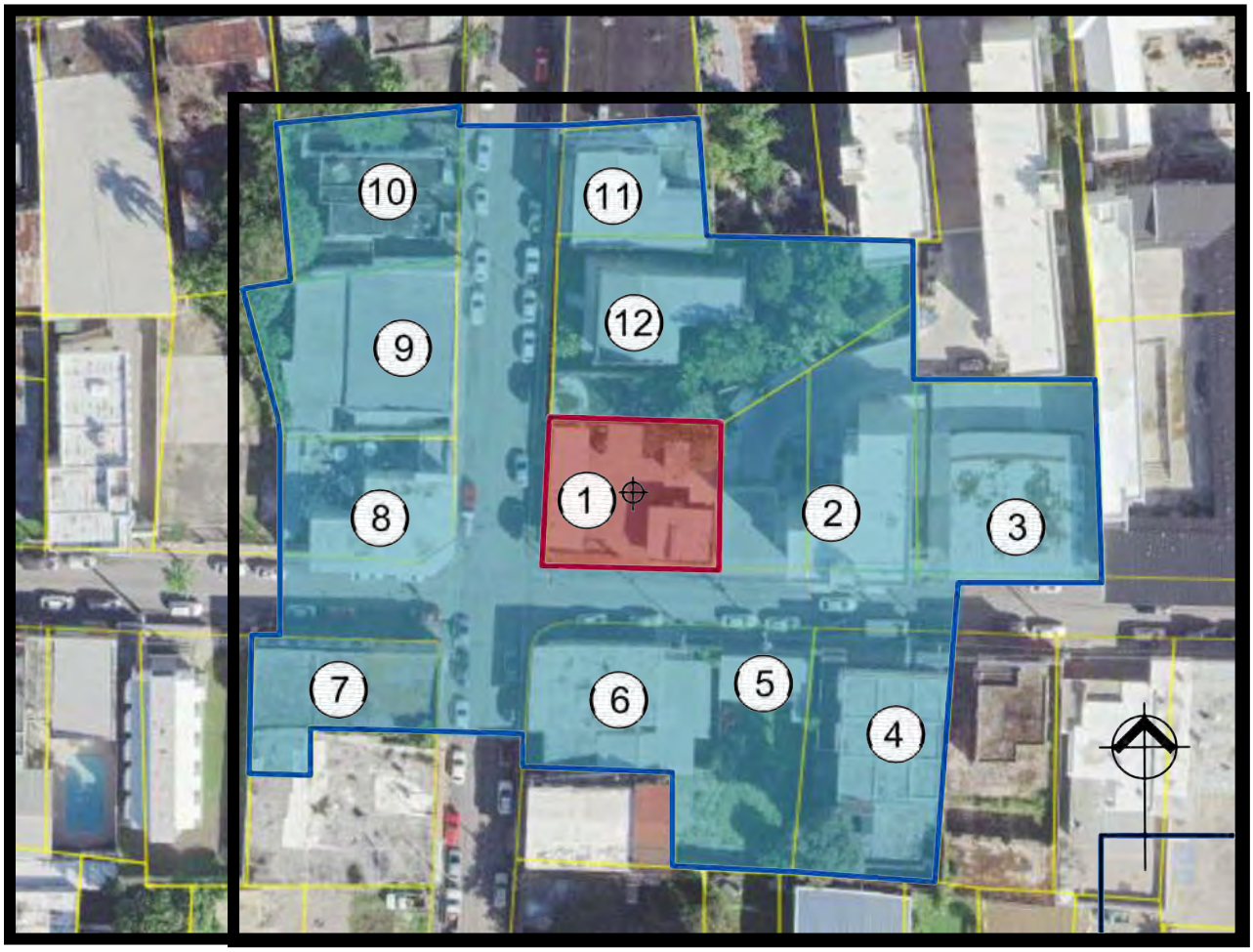
## USGS Topographic Map Coamo 2018[9]




Scale: 1:20,000
Source: USGS Topographic Maps

[9] GetMaps | topoView (usgs.gov)

## Project Parcel Location: Key Map for the Indirect/Visual APE Properties Inventory




Not to scale

Legend:

(1) Project Site - Direct APE

Project Site – Indirect/Visual APE

(2) to (12) Inventory of structures within the Indirect/Visual APE

Source: Catastro Digital https://catastro.crimpr.net/cdprpc/

## Project Parcel Location: Key Photographic Map of the Indirect/Visual APE Properties Inventory

Not to scale

Legend: Project Site - Direct APE

Project Site – Indirect/Visual APE

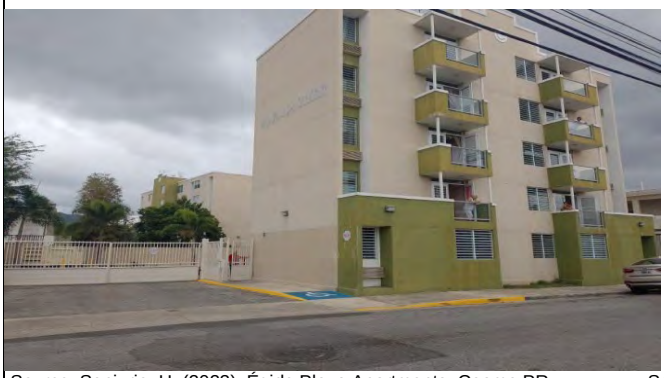
(#) Project Site – Indirect/Visual APE Properties' photos with view angle indication

Source: Catastro Digital https://catastro.crimpr.net/cdprpc/

Source: Sanjurjo, H. (2023). Site Pisos de Coamo, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #:1** | **Property #1:** Project Site for Pisos de Coamo on 26 Florencio Santiago Street, south side view looking north. |
| **Date: 2023** | |

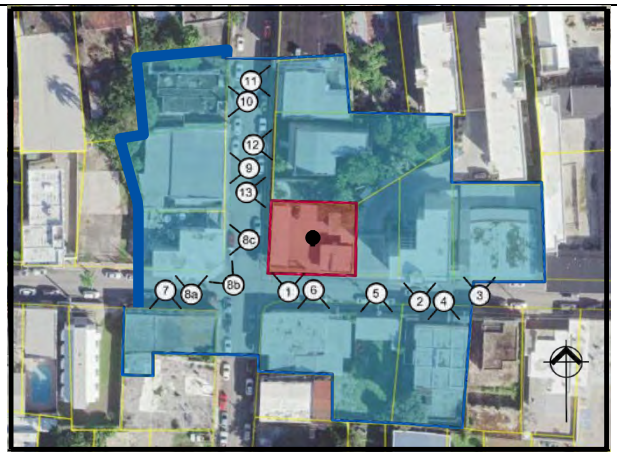


Source: Sanjurjo, H. (2023). Égida Plaza Apartments, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 2** | **Property #2:** Égida Plaza Apartment at 24 Florencio Santiago Street, Coamo, P. R. Elderly Complex recently constructed on the east limit of the project site. |
| **Date: 2023** | |

Source: Google Earth Map (2023) Urban Center, Coamo, PR



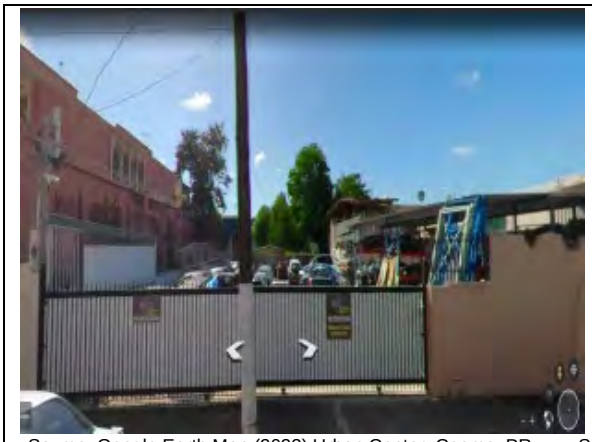

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #:3**<br>**Date: 2023** | **Property #3:** Commercial/residential building located on 22 Florencio Santiago Street, east of the project site. The commercial first floor is unoccupied and the residential second floor is in use. Construction is estimated to be of the second half of the 20th Century. It is made of reinforced concrete with no significant historical or architectural value. |

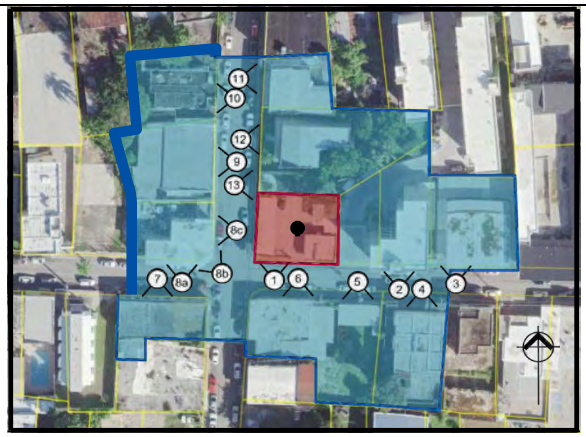
Source: Sanjurjo, H. (2023) Commercial/Residential Bldg., Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 4**<br>**Date: 2023** | **Property #4:** Two floors commercial/residential building located on 23 Florencio Santiago Street, to the southeast of the project site. The commercial first floor is unoccupied and in the second floor is located the residence of Mr. Otilio Rivera. Construction is estimated to be of the second half of the 20th Century, made in reinforced concrete with no significant historical or architectural value. |



Source: Google Earth Map (2023) Urban Center, Coamo, PR



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 5**<br>**Date: 2023** | **Property #5:** This property is a garage and patio of the corner house (Property # 6) located in 25 Florencio Santiago Street, southeast of the project site. It is used independently as a commercial property for an auto repair shop and auto parts sales, named Robert Auto Parts &Repairs. It has no significant historical or architectural value. |

Source: Medina, N. (2023) Private Residence, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 6**<br>**Date: 2024** | **Property #6:** Unoccupied private residence located in 25 Florencio Santiago Street, in the corner south of the project site. Its construction follows the Creole style and it is constructed of reinforced concrete and wood. It presents no significant historical or architectural value. |

Source: Google Earth Map (2023) Urban Center, Coamo, PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

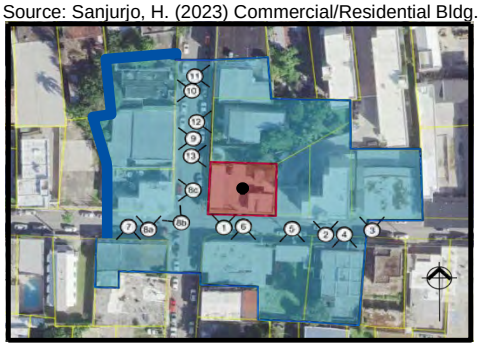
| | |
|---|---|
| **Photo #: 7**<br>**Date: 2024** | **Property #7:** One story commercial building in use located on 27 Florencio Santiago Street, in the southwest corner of the project site. It has two restaurants: El Bollo de Pan Relleno and El Baúl de la Abuela. This is a masonry structure in the Spanish colonial style in a very good state of conservation with eight doors to the north side and three doors to east side and with moldings in the façades. |

8a

8b

8c

Source: Sanjurjo, H. (2023) Commercial/Residential Bldg., Coamo PR



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 8a,b,c**<br>**Date: 2024** | **Property #8:** Corner two story building located at 28 Florencio Santiago Street, the west corner of the project site. It has a commercial first floor and a residential second floor. The businesses operating in the first level are Clínica Loavi, a sports medicine clinic, Dr. Hoyos Medical Office, Psychiatrist, and Jaime Flores Caldera Law Offices. It is a concrete masonry structure with a corner "chaflán" and balconies in the second floor. It was constructed in the Creole/Spanish colonial style. Its façades are simple and clean. |

Source: Sanjurjo, H. (2023) Residence, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 9**<br>**Date: 2024** | **Property #9:** Residence in use located in 4 Dr. José Celso Barbosa Street, to the north west of the site. Construction is estimated to be of the second half of the 20th Century of reinforced concrete with no significant historical or architectural value. It is in a good conservation state. |

Source: Sanjurjo, H. (2023) Residence, Coamo PR

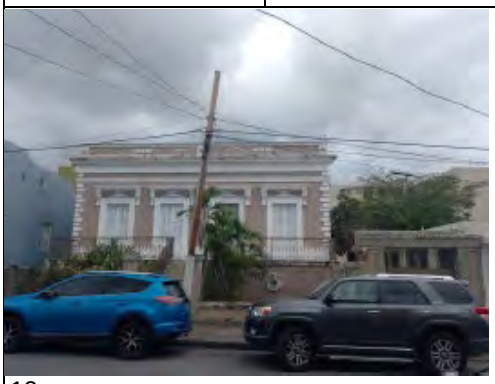
Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 10**<br>**Date: 2024** | **Property #10:** Residence in use located in 2 Dr. José Celso Barbosa Street, northwest of the project site. Construction is estimated to be of the second half of the 20th Century of reinforced concrete with no significant historical or architectural value. It is in a good conservation state. |

Source: Sanjurjo, H. (2023) Residence, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #:11**<br>**Date: 2024** | **Property #11:** Residence in use located in 1 Dr. José Celso Barbosa Street, north of the project site. It is constructed in the Creole/Neoclassic style, probably in the second half of the 19th century. It is made of masonry with an elegant façade with four doors enhanced by simple architectural ornamentation and a balcony. |



12

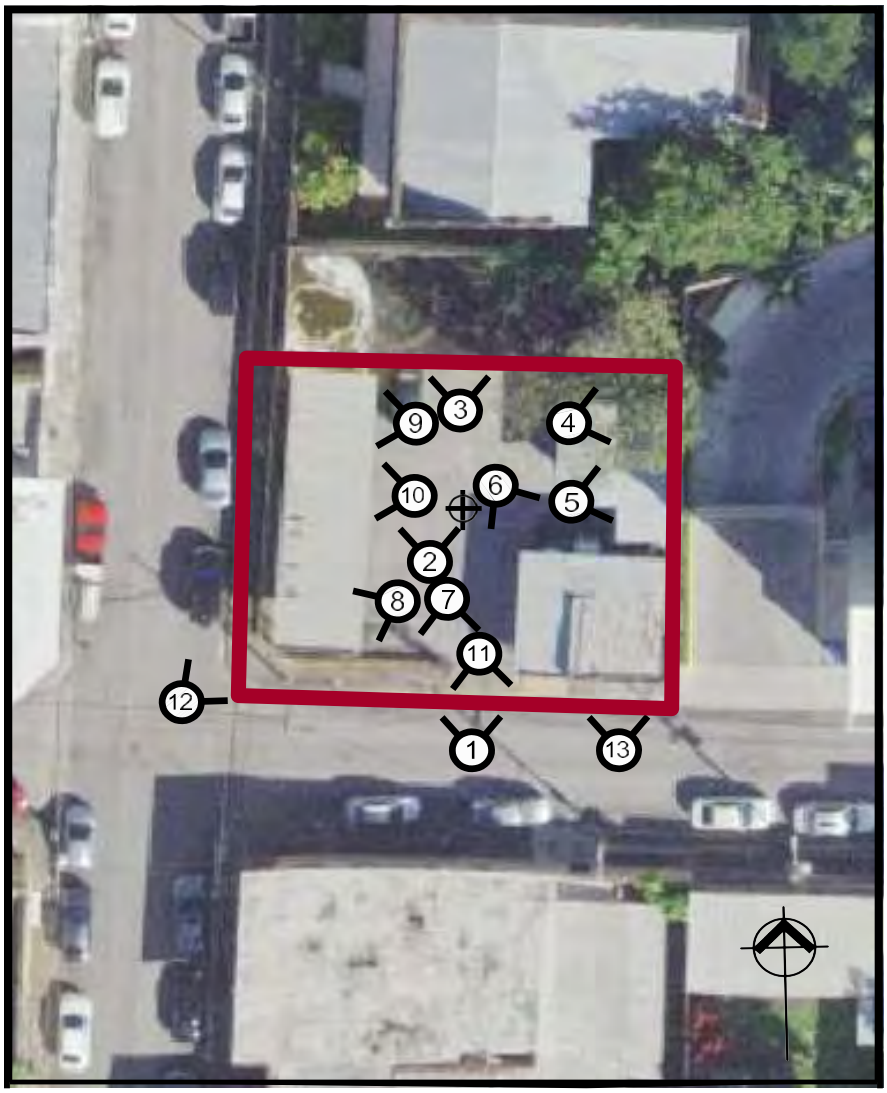
13

Source: Sanjurjo, H. (2023) Residence, Coamo PR

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 12 y 13**<br>**Date: 2024** | **Property #12:** Casa Borelli is an unoccupied residence, located on 3 José Celso Barbosa Street, on the north limit of the project site. It is property of the Municipality of Coamo. This residence was built at the end of the nineteenth century in the Creole architectural style with neoclassical elements of french inspiration. Unlike other trends of that time, this structure moved away from the idea of sharing a party wal, souranding the struccture with wide lateral patios, a frontal garden and an ample back patio. Some of its main characteristics are contained in its main façade with the symmetry of four doors, as well as the continuity in its balcony. This structure can be defined as an example of the architectural variety that existed on the island with the change of sovergnty of 1898. Probably it is elegible for the National Registry of Historic Properties. Recently the previous owner constructed a small concrete one floor structure for commercial rental in the south lateral patio and aligned with the sidewalk. It is elegible for the National Registry of Historic Properties.<br>SOURCE: https://coamo.net/arquitectura.html |

## Project Site Interior Photographs Key Plan



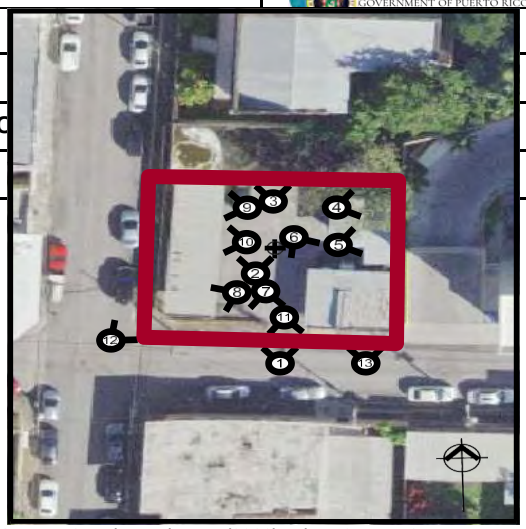

Not to scale

Legend: Project Site APE Direct – Interior Photographs Key Map

(#) Project Site – Interior Photos with view angle indication

Source: Catastro Digital https://catastro.crimpr.net/cdprpc/

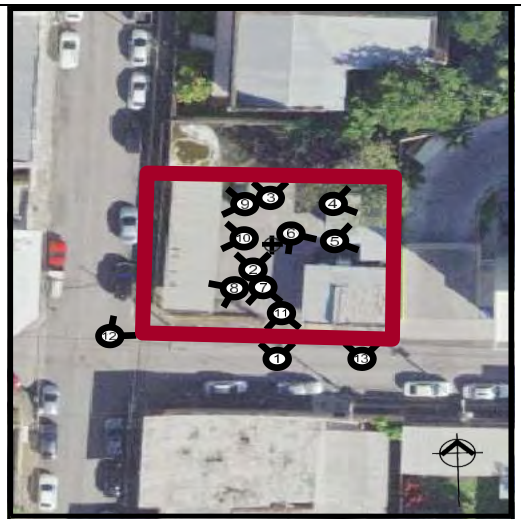
Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

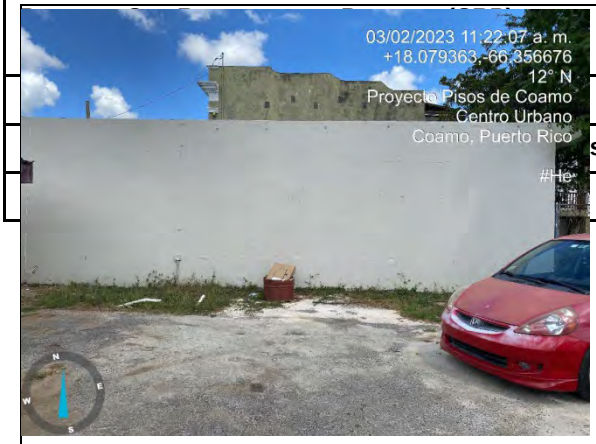
| | |
|---|---|
| **Photo #: 01**<br>**Date: March 2023** | **Station 1:** View from Florencio Santiago Street looking north at middle of the width of the site. To the right is part of the small structure of wood and concrete and to the left part of the peripheral iron fence both to be demolished. |

Source: Medina, N. (2023)

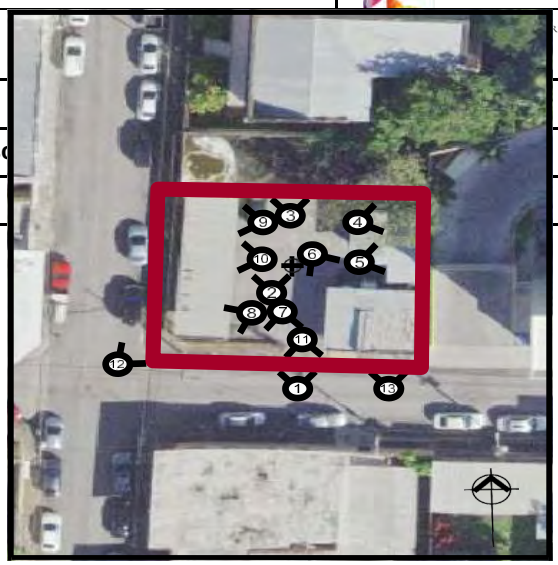


Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 02**<br>**Date: March 2023** | **Station 2:** View from inside the project site looking to the north limit of the property. To the left is the aluminum roof with steel columns, to the right is the side of the small wood and concrete structure, both to be demolished. At the end is a white wall in the limit of the property. |

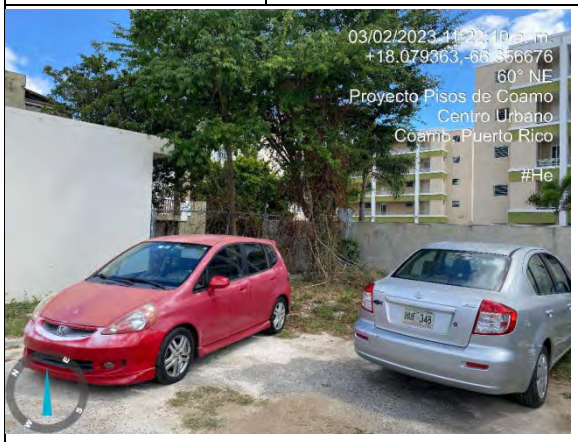



Source: Medina, N. (2023)

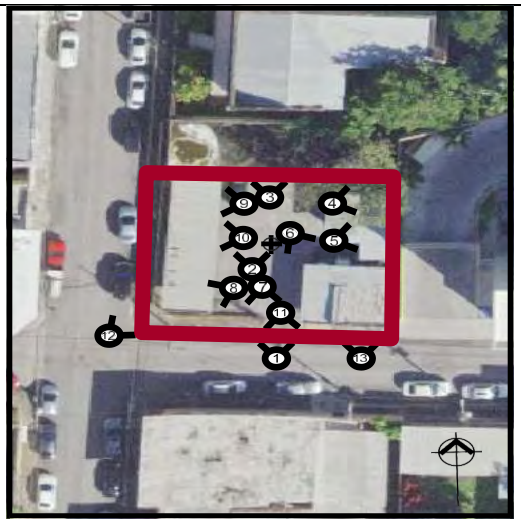


Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 03** | **Station 3:** Looking north from the project site to the concrete wall of the site north limit. |
| **Date: March 2023** | |



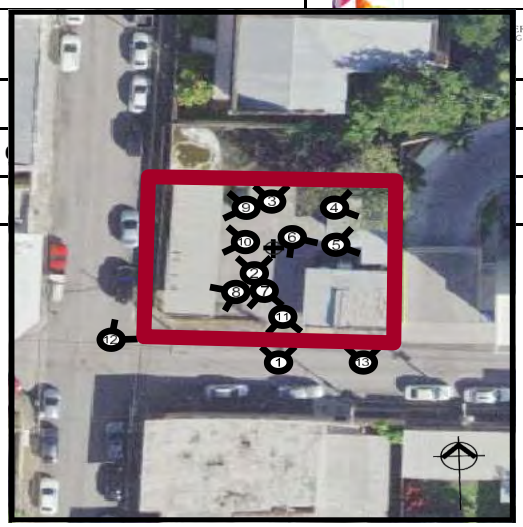

Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

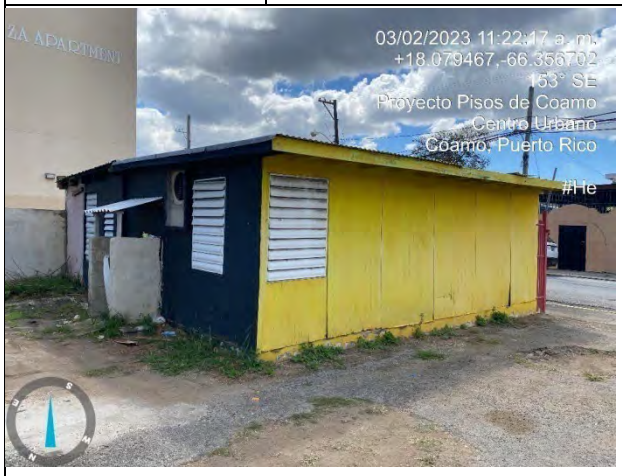
| | |
|---|---|
| **Photo #: 04** | **Station 4:** Looking north east form the project site to the tree and concrete wall on the site east limit. |
| **Date: March 2023** | |

Source: Medina, N. (2023)

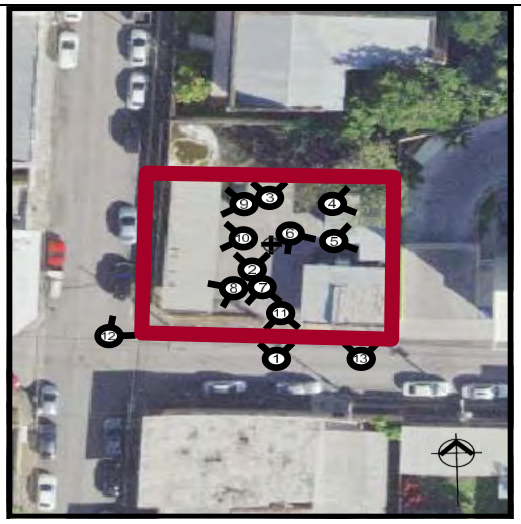


Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 05** | **Station 5:** Looking east from the project site to the concrete wall of the east property limit. |
| **Date: March 2023** | |



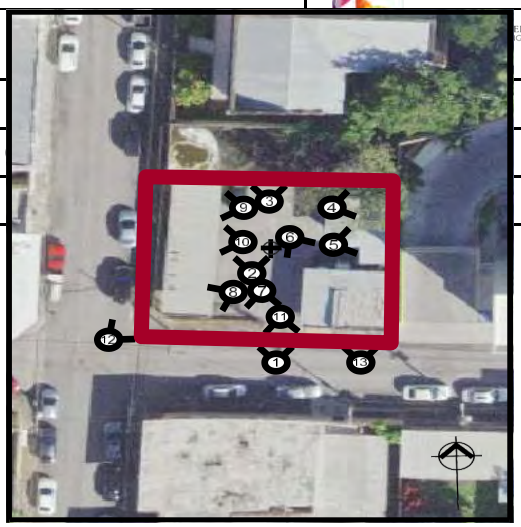

Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 06** | **Station 6:** Looking south east from the project site to the small wood and concrete blocks structure to be demolished. |
| **Date: March 2023** | |

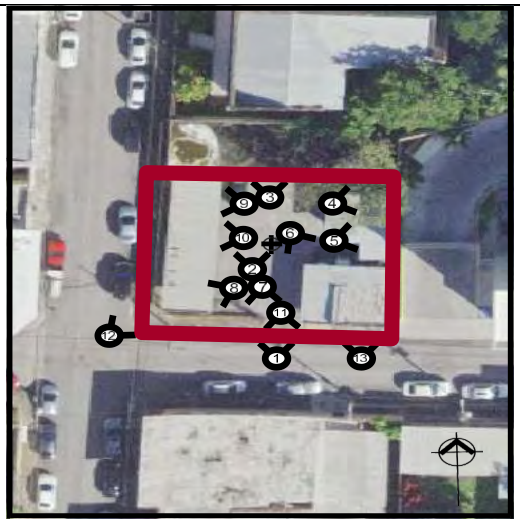
Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

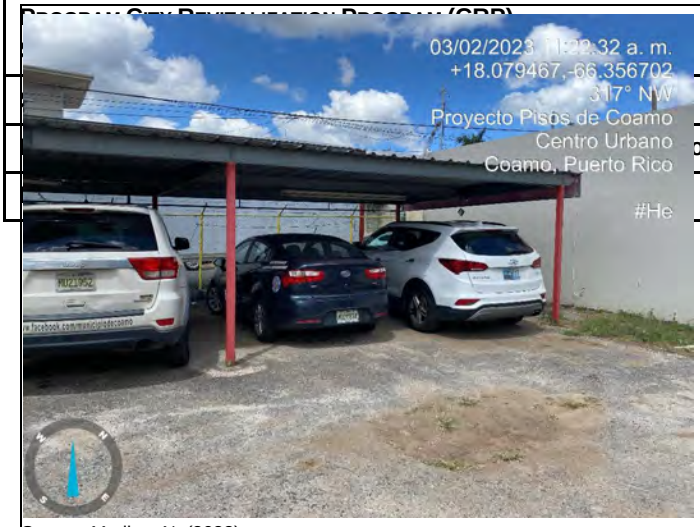
| | |
|---|---|
| **Photo #: 07** | **Station 7:** Looking south to Florencio Santiago Street from the project site to the iron fence of the south limit of the property. Part of the small wood and concrete blocks structure to be demolished is in the left side of the photo. |
| **Date: March 2023** | |

Source: Medina, N. (2023)

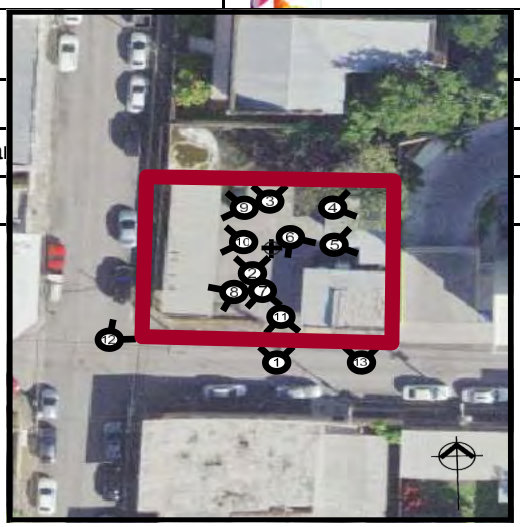


Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 08** | **Station 8:** Looking to the south west corner of the project site to the iron fence and the aluminum roof with steel columns, to be demolished. |
| **Date: March 2023** | |



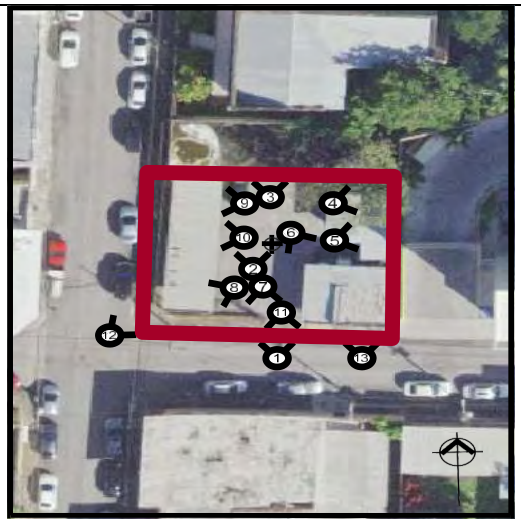

Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 09** | **Station 9:** Looking to the north west corner of the project site to the aluminum roof with steel columns to be demolished. |
| **Date: March 2023** | |

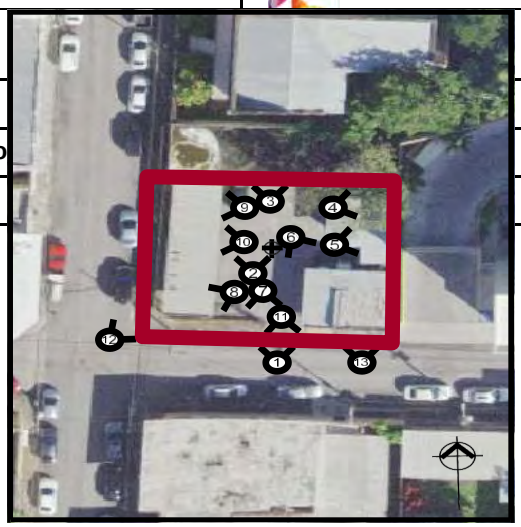
Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #:10** | **Station 10:** Looking to the west side of the project site to the aluminum roof with steel columns to be demolished**.** |
| **Date: March 2023** | |

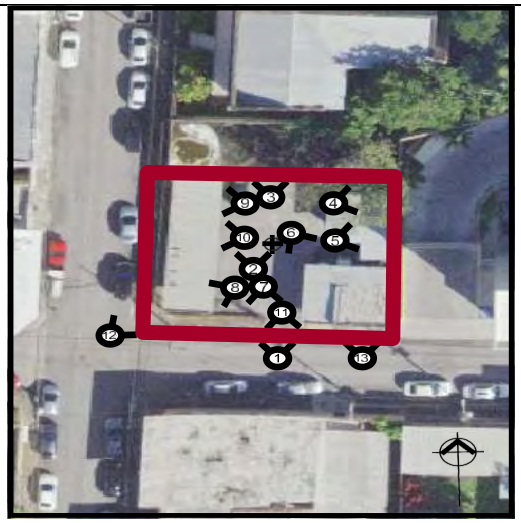
Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #:11** | **Station 11:** Looking south to Florencio Santiago Street in the project site south limit. |
| **Date: March 2023** | |

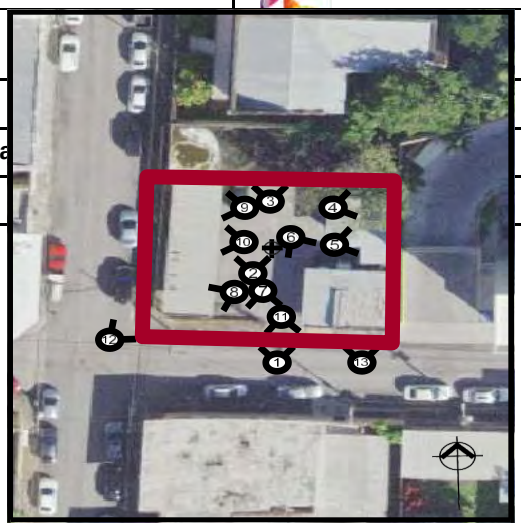
Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 12** | **Station 12:** Looking from the intersection of Florencio Santiago Street and Dr. José Celso Barbosa Street to the south west corner of the project site to the perimeter fence, part of the aluminum roof with steel columns and the small wood and concrete blocks building, both to be demolished. |
| **Date: March 2023** | |

Source: Medina, N. (2023)



Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #: 13** | **Station 13:** Looking from the south east corner of the project site to the north at the small wood and concrete blocks building to be demolished. |
| **Date: March 2023** | |

Not to scale

Legend: Project Staging Area – Interior Photographs Key Map

(#) Project Staging Area – Interior Photos with view angle indication

Source: Google Earth Map (2023) Urban Center, Coamo, PR

Source: Sanjurjo, Héctor(Jan. 2025)

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo #1** | **Staging Area** |
| **Date: Jan. 2025** | **Station 1:** Looking from José I. Quintón Street to the entrance gate of the Staging Area |

Source: Sanjurjo, Héctor (Jan. 2025)

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo: #2** | **Staging Area** |
| **Date: Jan. 2025** | **Station 2:** Looking from center of the Staging Area to the North |

Source: Sanjurjo, Héctor(Jan. 2025)

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo: #3** | **Staging Area**<br>**Station 3:** Looking from center of the Staging Area to the West |
| **Date: Jan. 2025** | |

Source: Sanjurjo, Héctor(Jan. 2025)

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo: #4** | **Staging Area**<br>**Station 4:** Looking from center of the Staging Area to the South |
| **Date: Jan. 2025** | |

Source: Sanjurjo, Héctor(Jan. 2025)

Source: Google Earth Map (2023) Urban Center, Coamo, PR
Key Map Not to scale

| | |
|---|---|
| **Photo: #5** | **Staging Area**<br>**Station 5:** Looking from center of the Staging Area to the East |
| **Date: Jan. 2025** | |

Attachments:

1. OGPE 2019-295028-REA-003712, ICP letter Built Heritage Program (PPHE)
2. OGPE 2019-295028-REA-003712, ICP letter -Archaeology & Ethnohistory Program (PAE) – Program requests Phase IA-IB with construction monitoring.
3. SHPO letter - SHPO-03-08-21-04_March 16, 2021
4. Coamo - Pisos de Coamo - Fase IA-IB Estudio Arqueologico_2020-03-23 by N. Medina
5. Coamo - Pisos de Coamo – Proposed Archaeology Phase II Plan
6. Project Architectural Perspectives
7. Pisos de Coamo, 90% Construction Drawings (2019-12-07)
8. Pisos de Coamo, Technical Specifications (updated 2023)

**PR-CRP-000145**

# Proyecto Residencial Comercial Pisos de Coamo FS26 Project

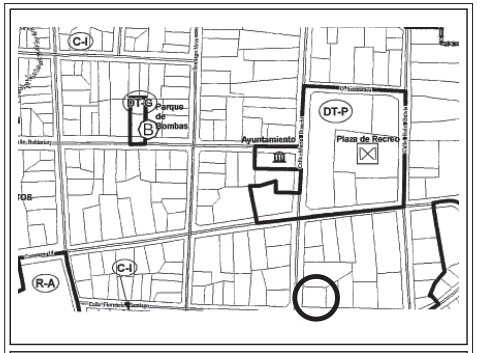
## Coamo, Puerto Rico

90% Design Drawings

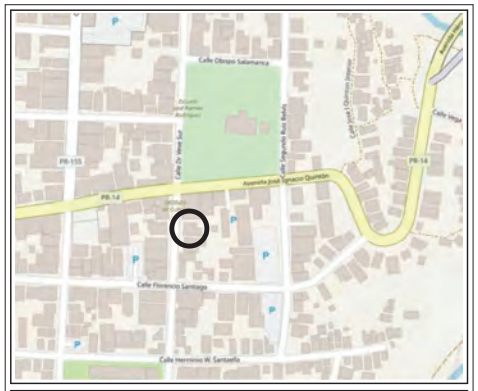
Attachment #25-Construction Drawings

# EDIFICIO DE USO MIXTO ( COMERCIO Y VIVIENDA )
# CALLE FLORENCIO SANTIAGO # 26
# BARRIO PUEBLO, COAMO, PUERTO RICO

OWNER : MUNICIPO AUTONOMO DE COAMO
PROPERTY TAX-LIST NUMBER : 345-033-046-09
LAMBERT COORDINATES
X : 208114.3382 , Y : 227234.8452




ZONING MAP



LOCATION MAP

USGS MAP

FLOOD MAP

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J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-225-3070 ofisanchezarana@yahoo.com 787-502-3788


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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Sánchez Arana, dirigen la licencia 3643, certifica que esta y el proyecto son confeccionados y/o diseñados y/o preparados entre planos y las especificaciones complementarias. También certifica que entiende que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de la Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Asimismo que cualquier desviación hasta o modificación de la misma será de su sola y exclusiva responsabilidad y por ende relevan a los firmantes de cualquier responsabilidad por la misma. Los firmantes, no hacen responsable a cualquier cambio posterior y realizados por el DACO.



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DRAWING TITLE
TITLE SHEET

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | T-1 |
| DATE 12/07/2019 | |

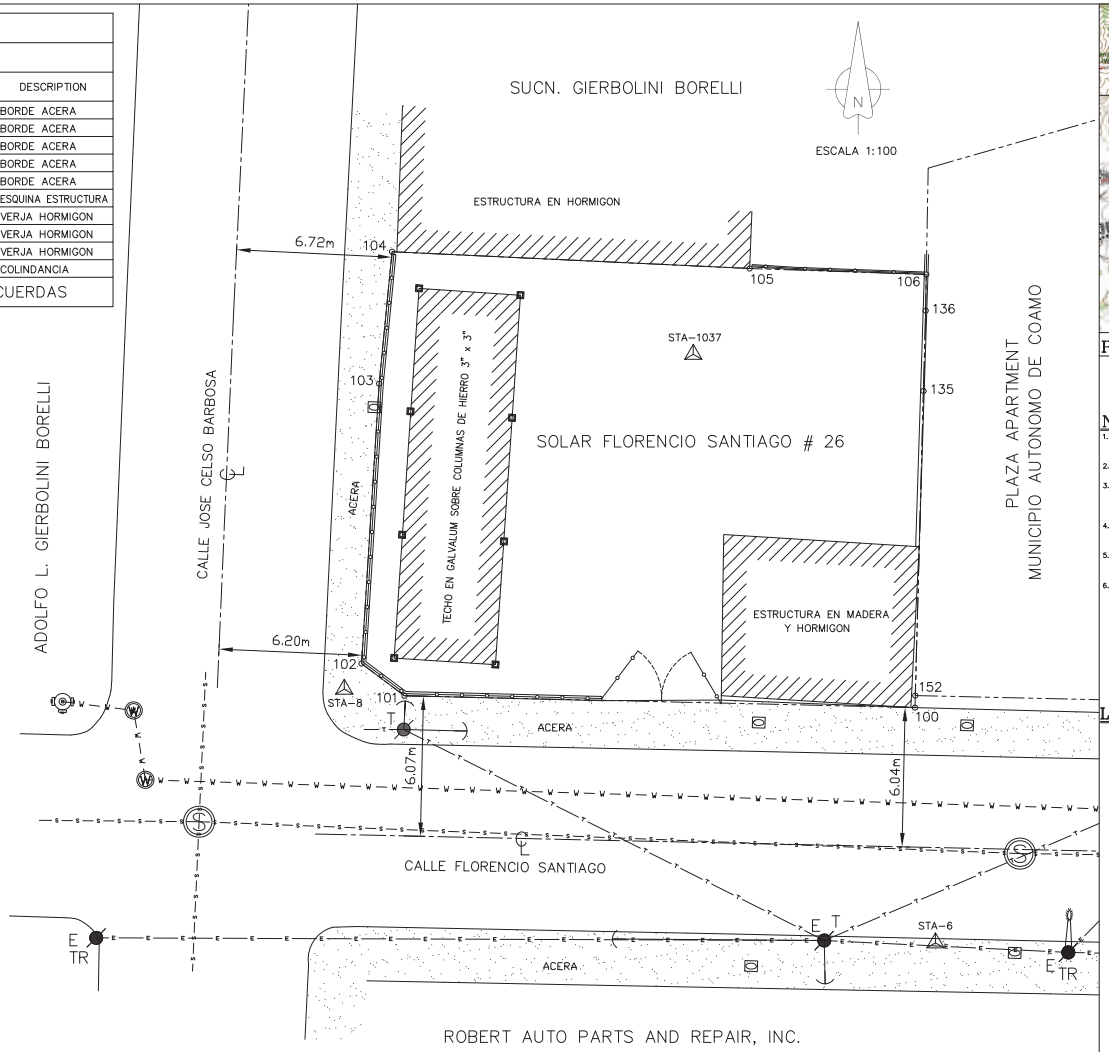
PARCEL NAME: SOLAR FLORENCIO SANTIAGO # 26

## SURVEY DATA

| LINE | BEARING | DISTANCE | POINT | COORDINATES NORTH (Y) | COORDINATES EAST (X) | DESCRIPTION |
|---|---|---|---|---|---|---|
| 100–101 | N 88°40'17" W | 22.11 | 100 | 227225.8361 | 208124.8795 | BORDE ACERA |
| 101–102 | N 53°10'28" W | 2.32 | 101 | 227226.3488 | 208102.7780 | BORDE ACERA |
| 102–103 | N 3°35'19" E | 12.14 | 102 | 227227.7399 | 208100.9202 | BORDE ACERA |
| 103–104 | N 5°34'51" E | 5.74 | 103 | 227239.8574 | 208101.6802 | BORDE ACERA |
| 104–105 | S 87°18'57" E | 15.50 | 104 | 227245.5693 | 208102.2383 | BORDE ACERA |
| 105–106 | S 88°5'41" E | 7.65 | 105 | 227244.8434 | 208117.7219 | ESQUINA ESTRUCTURA |
| 106–136 | S 1°1'47" W | 1.57 | 106 | 227244.5890 | 208125.3676 | VERJA HORMIGON |
| 136–135 | S 1°31'58" W | 3.48 | 136 | 227243.0220 | 208125.3394 | VERJA HORMIGON |
| 135–152 | S 1°31'58" W | 13.19 | 135 | 227239.5425 | 208125.2463 | VERJA HORMIGON |
| 152–100 | S 1°31'58" W | 0.52 | 152 | 227226.3564 | 208124.8935 | COLINDANCIA |

AREA = 447.3740 SQ.MTS. = 0.1138 CUERDAS

| TABLA DE CONTROLES | | | |
|---|---|---|---|
| PUNTO | NORTE | ESTE | DESCRIPCION |
| 6 | 227215.6510 | 208125.7650 | PK EN ACERA |
| 8 | 227226.6300 | 208100.1700 | PK EN ACERA |
| 1037 | 227241.1284 | 208115.2806 | PK EN ASFALTO |



## PLANO DE LOCALIZACION

ESCALA 1:20,000

CENTROIDE
COORDENADAS LAMBERT NAD 83 NSRS REV 2007
N=227236.5655
E=208112.3372

## NOTAS:

1. TODAS LAS DIMENSIONES ESTAN EN EL SISTEMA METRICO, A MENOS QUE SE INDIQUE LO CONTRARIO.
2. DATA DE CAMPO TOMADA EN OCTUBRE 26, 2018.
3. EL DATUM HORIZONTAL ES EL NAD 83 NSRS REV. 2007, EL SISTEMA DE COORDENADAS ES LA PROYECCION CARTOGRAFICA LAMBERT ZONA 5200 PR/VI Y LAS UNIDADES SON EN METROS.
4. LA INFORMACION DESCRITA EN ESTE PLANO REPRESENTA EL RESULTADO DE LAS CONDICIONES GENERALES EXISTENTE AL MOMENTO DE REALIZAR EL TRABAJO DE CAMPO.
5. EL CONTRATISTA DEBERA VERIFICAR TODAS LAS CONDICIONES, MEDIDAS Y NOTIFICAR AL DUEÑO DE CUALQUIER DISCREPANCIA.
6. LAS UTILIDADES BAJO TIERRA FUERON LOCALIZADAS A BASE DE LA EVIDENCIA SOBRE EL TERRENO. EL CONTRATISTA DEBERA NOTIFICAR A TODAS LAS AUTORIDADES DE DICHAS UTILIDADES ANTES DE CUALQUIER TRABAJO.

## LEYENDA

- = HIDRANTE
- = CONTADOR DE AGUA
- = VALVULA DE AGUA
- = POSTE MADERA ELECTRICO
- = POSTE MADERA PRTC
- = POSTE MADERA ELECTRICO CON TRANSFORMADOR
- = POSTE ALUMBRADO MADERA
- = "MANHOLE" SANITARIO
- = ACERAS
- = ESTRUCTURAS
- = ESTACION
- = PORTON
- = LETRERO
- = LINEA ELECTRICA
- = LINEA TELEFONO
- = LINEA COLINDANCIA
- = VERJA DE ESLABONES EXISTENTE
- = TUBO SANITARIO
- = TUBO DE AGUA POTABLE

## DATOS REGISTRALES

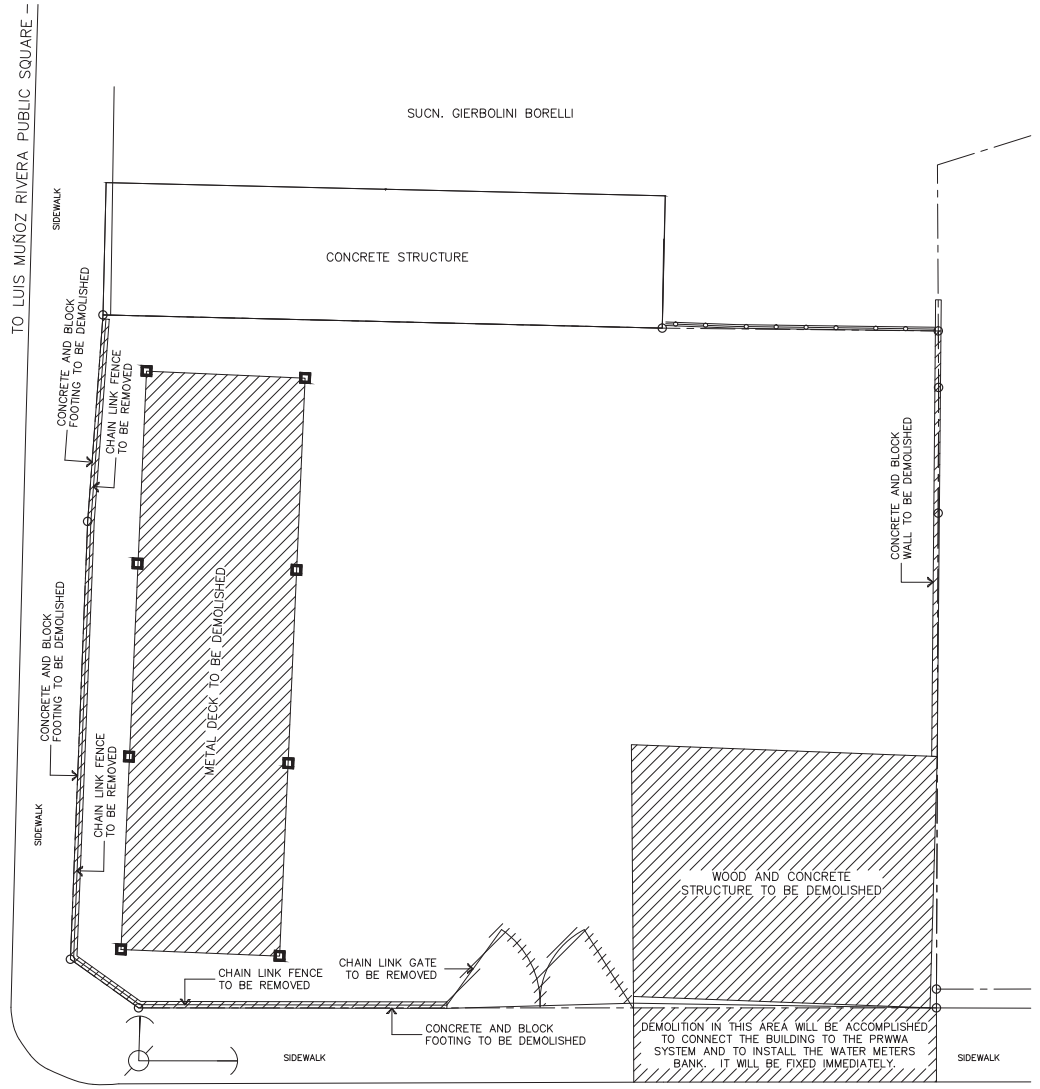
TOMO:
FOLIO:
FINCA:
CATASTRO: 345-033-046-09

| REV. NO. | DESCRIPCION | FECHA |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |

# PLANO DE MENSURA DEL SOLAR FLORENCIO SANTIAGO # 26
# PROPIEDAD DEL MUNICIPIO AUTONOMO DE COAMO
# CALLE FLORENCIO SANTIAGO # 26, BARRIO PUEBLO, COAMO, P.R.


ANGEL NOEL COLON GUZMAN
AGRIMENSOR LICENCIADO
REPLANTEO EN PROYECTOS DE CONSTRUCCION
MENSURAS–TOPOGRAFIAS–SEGREGACIONES
SERVICIOS DE POSICIONAMIENTO GLOBAL (G.P.S.)
NIVELACIONES–PERITAJE EN CORTE
OFIC. 787-241-8290
CEL. 787-567-6161
E-MAIL: agrimensores4n@yahoo.com


| | | | |
|---|---|---|---|
| HOJA DE: | | | HOJA NO. 1 |
| MENSURA POR: ANGEL NOEL COLON GUZMAN | FECHA: OCTUBRE 27, 2018 | | |
| REVISADO POR: ANGEL NOEL COLON GUZMAN | NOMBRE DE ARCHIVO: PLANO MENSURA SOLAR FLORENCIO SANTIAGO #26-COAMO.dwg | | DE 1 |
| DIBUJADO POR: | ESCALA: 1:100 | | |




DEMOLITION PLAN – EXISTING CONDITION

SCALE: 3/16" = 1'-0"

Legend:

DEMOLITION AREA

Notes:

1) Demolition shall include removing of existing surface and the structures that actually exist in the hatched area, unless otherwise specified.

2) Remaining layers under the removed material shall be compacted to 95% of the maximum dry density obtained in the modified Proctor Test (ASTM D1557).


SANCHEZ ARANA ARQUITECTOS

J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3870 lilissanchezarana@yahoo.com 787-390-3788


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

PRELIMINARY PHASE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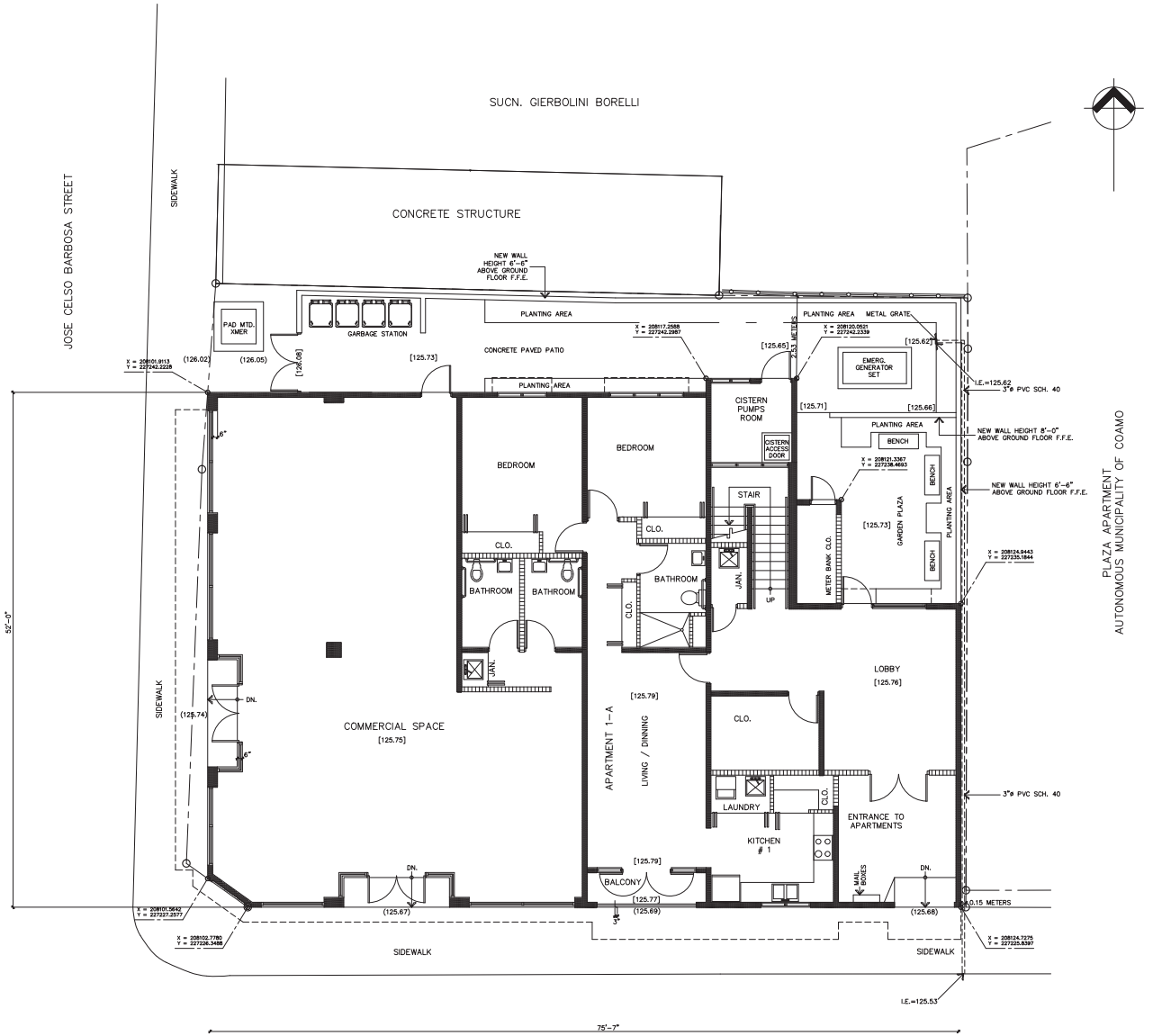
DRAWING TITLE

EXISTING CONDITION - DEMOLITION

| | |
|---|---|
| PROJECT | SHEET NO. |
| DESIGNED J.L.P.B | OF DRAWING |
| DRAWN J.L.P.B. | C-1 |
| DATE 11/07/2019 | |


NOTA: Yo, José Luis Pérez Berenguer, Ingeniero Licenciado, # de licencia 15873, certifico que soy el profesional que diseñó estos planos y las especificaciones complementarias. También certifico que estamos en cumplimiento con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de las Agencias, antes Reglamentanos o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación hecha a ratificación de estos planos y especificaciones sin mi autorización escrita y aprobación, anulará mi responsabilidad profesional en el proyecto y me exime de cualquier responsabilidad en caso de cualquier acción judicial y administrativa que surja como consecuencia, incluyendo, pero sin limitarse, a la terminación de la participación de los profesionales de certificación profesional en la OGPe.




## LEGEND

(126.02) EXISTING FLOOR ELEVATION, IN METERS

[126.02] FINISHED FLOOR ELEVATION, IN METERS

LAMBERT COORDINATES OF A POINT

## PROPOSED SITE PLAN

SCALE: 3/16" = 1'-0"

NOTA:
Yo, José L. Pérez Berenguer, número de licencia 13573, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. Inmisible certifico que entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos en vigor al momento de la radicación de los mismos. Además, certifico que entiendo que la aprobación de estos planos y especificaciones no constituye responsabilidad alguna de mi parte por cualquier error u omisión que pueda surgir durante la construcción de la obra. Finalmente

## ARCHITECTURAL LEGENGD

- AXIS BUBBLE
- REINFORCED CONCRETE WALL
- CONCRETE BLOCKS WALL
- PRECAST CONCRETE WALL
- GYBSUM BOARD PARTITION
- PROJECT LIMIT
- INDICATES DETAIL NUMBER / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL ELEVATION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- GENERAL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- W.S. WALL SECTION DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- INTERIOR ELEVATION
- EQUIPMENT IDENTIFICATION
- REVISIONS (WHEN INDICATED IN DRWS.)
- INDICATES DOOR DESIGNATION AS SCHEDULE NOTE: HAND OF DOOR DETERMINED BY PLAN DRAWINGS OR MIRROR IMAGE IF APPLIES.
- WINDOW DESIGNATION AS SCHEDULE
- N.I.C. NOT INCLUDED IN CONTRACT
- A.F.F. ABOVE FINISHED FLOOR
- CH. CEILING HEIGHT
- F.D. FIELD DIMENSIONS
- F.F.E. FINISHED FLOOR ELEVATION
- F.F.E. FINISHED FLOOR ELEVATION
- FINISHED FLOOR ELEVATION
- GATE DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- RAILING DESIGNATION / SHEET NUMBER WHERE DETAIL IS SHOWN
- SF1 STOREFRONT DESIGNATION AS SCHEDULE

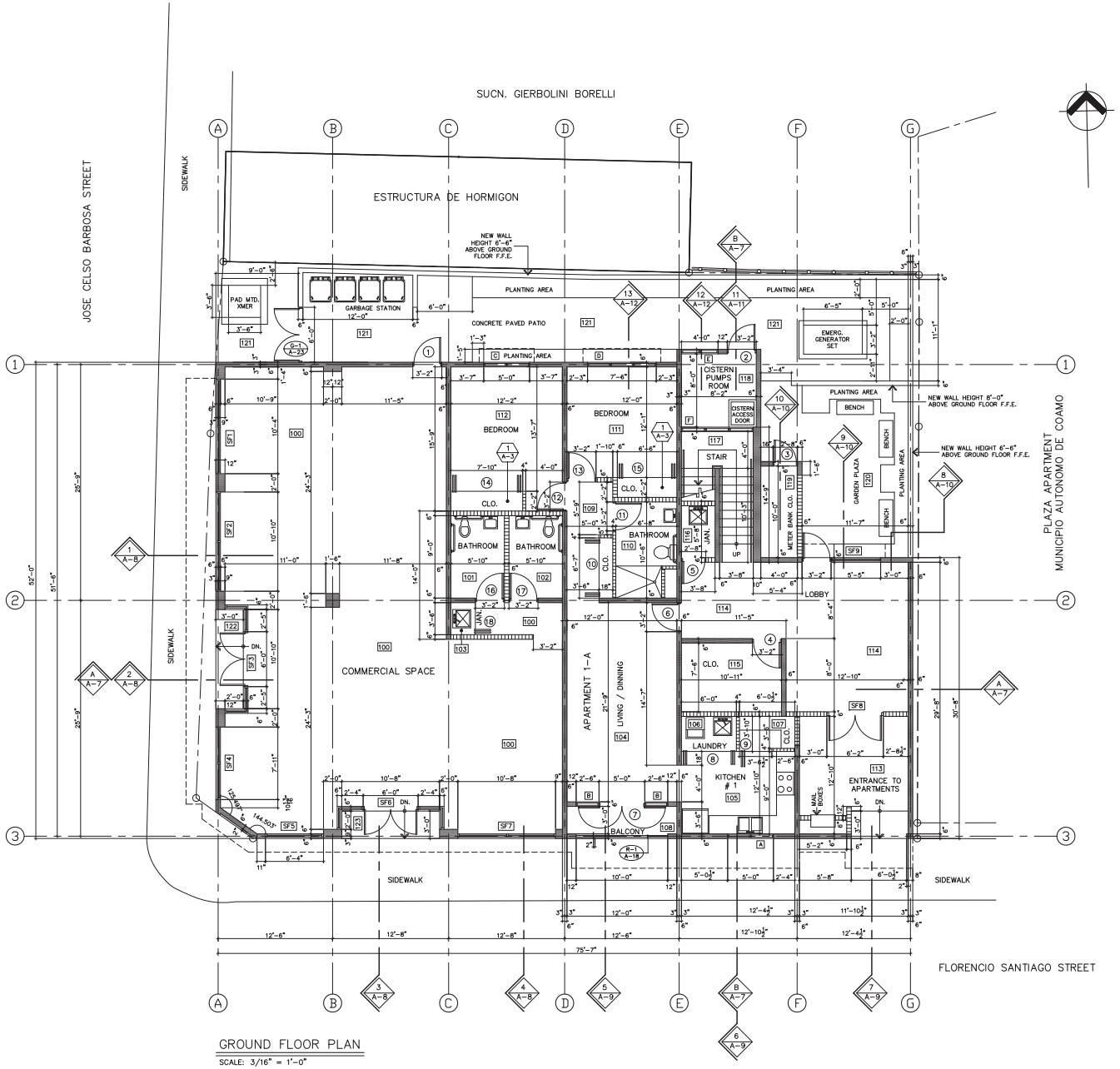
**BENCHES NOTES :**

1. 4' LONG - 15" WIDE SEATS BENCHES WITHOUT BACK SHALL BE EQUALS OR APROVED EQUALS AS WABASH VALLEY DESIGNER SERIE MODEL DS302(T) .

2. BENCHES FINISH COLOR TO BE SELECTED BY THE ARCHITECT.

**MAILBOXES NOTE :**

1. HORIZONTAL MAILBOX - 5 DOORS HIGH UNIT - 10 B DOORS (9 USABLES) FRONT LOADING – PRIVATE ACCESS SHALL BE EQUAL OR APROVED EQUAL AS SALSBURY INDUSTRIES MAILBOX MODEL # 3610, FINISH : ALUMUNUM.




GROUND FLOOR PLAN

SCALE: 3/16" = 1'-0"


SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 lissonchezarana@yahoo.com 787-390-3788


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

# EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO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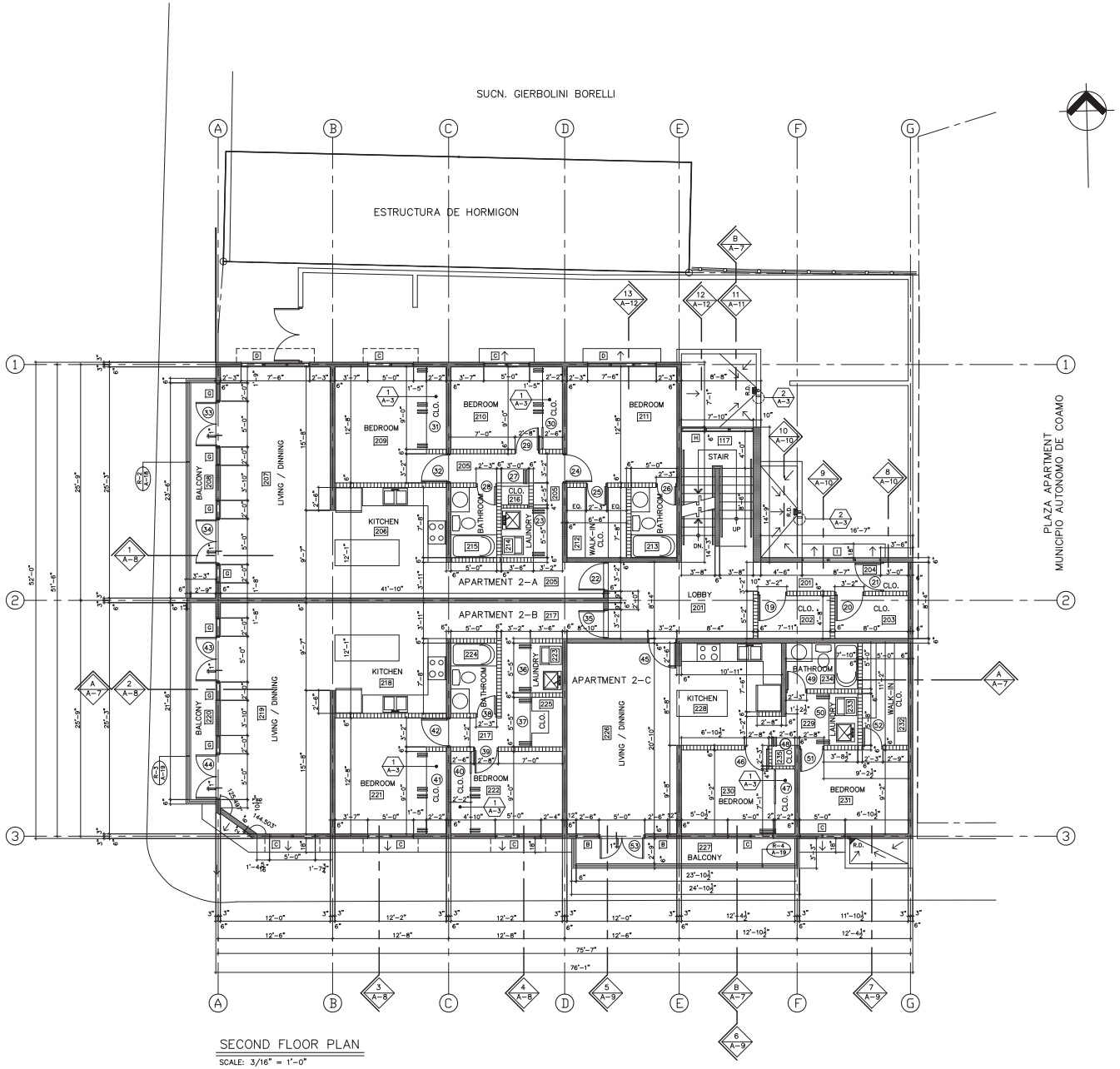
DRAWING TITLE

GROUND FLOOR PLAN

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-1 |
| DRAWN | |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento o a cualquier ley aplicable en la preparación de estos planos y especificaciones, así como por cualquier daño o destrucción de los hechos que se haya producido por desconocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ICPR.




SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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

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

3. IN CASE OF CONFLICT BETWEEN ARCHITECTS AND CONSULTANTS DRAWINGS IN LOCATING MATERIALS/EQUIPMENT, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

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

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

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

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

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

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

11. SUBSTITUTIONS, REVISIONS, OR CHANGES MUST BE SUBMITTED TO ARCHITECT FOR REVIEW (IN CONFORMANCE WITH SPECIFIED PROCEDURES) PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. REFER TO SPECIFICATIONS FOR SPECIFIC PROCEDURES. THE PROJECT INTENDS TO USE AS MUCH OF RECYCLED MATERIALS AND EQUIPMENT AS POSSIBLE. MANUFACTURES MODEL NUMBERS AND SPECIFICATIONS ARE FOR COMPARISON PURPOSES. ANY RECYCLED MATERIAL OR EQUIPMENT MUST MEET CITED QUALITY AND STANDARDS ESPECIALLY WITH REGARD TO STRUCTURAL SOUNDNES AND LIFE SAFETY.

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

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

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

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

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

18. COMMENCEMENT OF WORK SHALL BE DEEMED AS THE GC'S ACKNOWLEDGMENT OF ALL WORK REQUIRED TO COMPLETE PROJECT IN CONFORMANCE WITH CONTRACT DOCUMENTS AND SCHEDULE.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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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DRAWING TITLE

SECOND FLOOR PLAN

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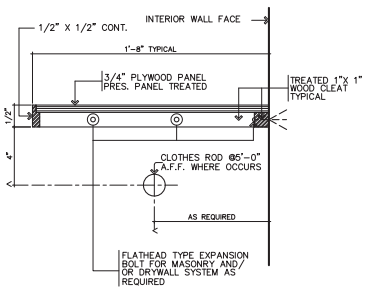
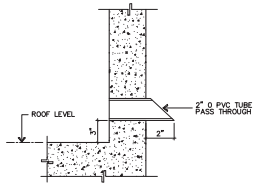
|---|---|
| PROJECT | SHEET NO. |
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-2 |
| DATE 7/07/2019 | |

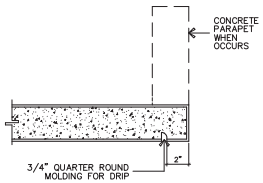
NOTA:
Yo, Ilis Sánchez Arana, dirigente de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos y Usos para Puerto Rico y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento que surja de errores u omisiones en dichos planos y especificaciones o de falsificación de los hechos que se haya producido por desconocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ODPA.



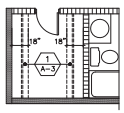

CLOSET DETAIL 1/A-3
N.T.S.



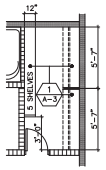

OVERFLOW DETAIL 2/A-3
N.T.S.




DRIP DETAIL 3/A-3
N.T.S.



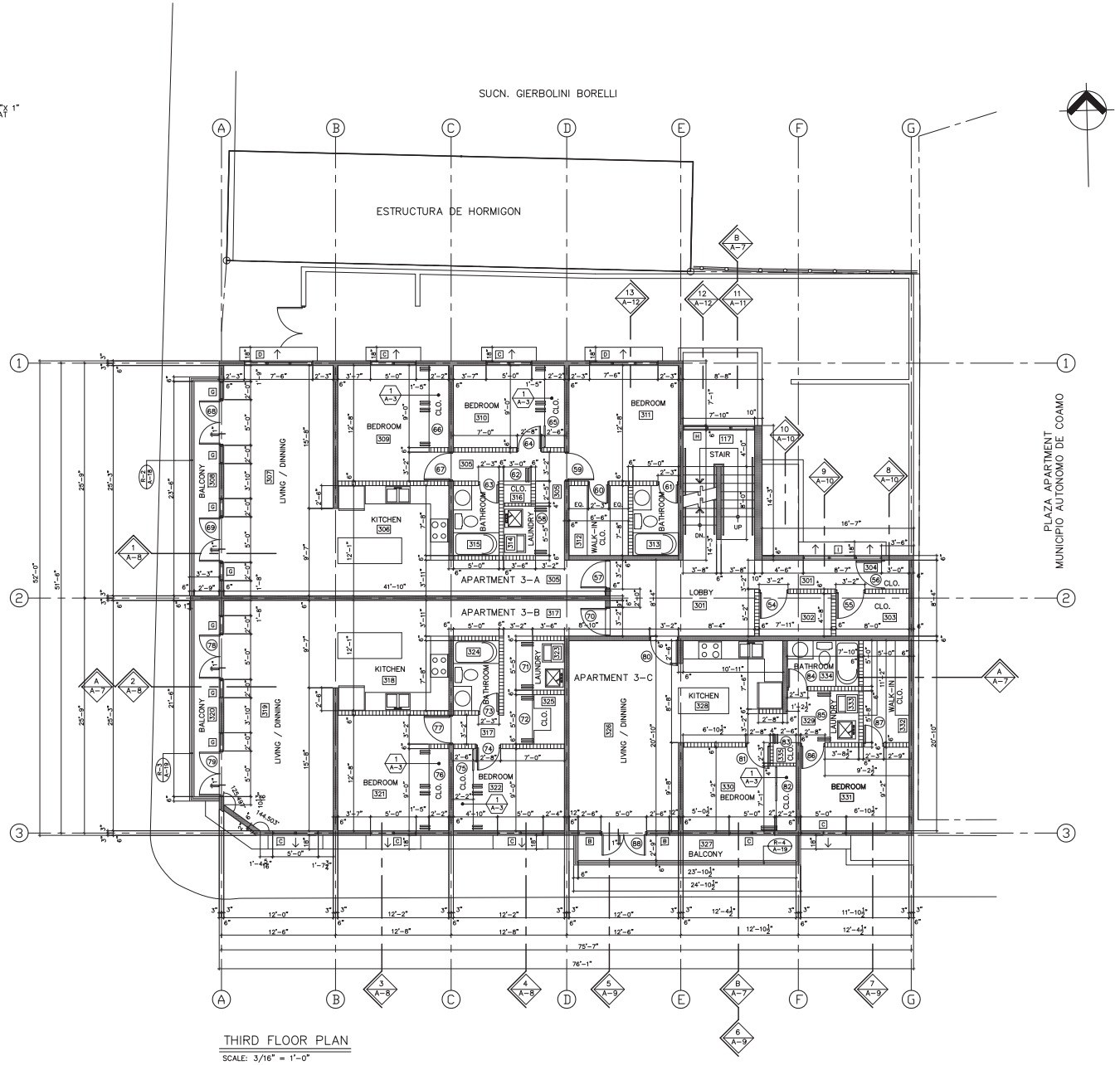

WALK-IN CLOSETS
MKD. 212 & 312




WALK-IN CLOSETS
MKD. 232 & 332

**CLOSETS MKD. 107, 109, 216, 225, 235, 316, 325, AND 335 NOTE :**

1. PROVIDE EACH CLOSET WITH 5 WOOD SHELVES, REFER TO CLOSET DETAIL 1/A-3.




THIRD FLOOR PLAN
SCALE: 3/16" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 9443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento o a cualquier otra ley o reglamento aplicable que surja de la preparación de estos planos y especificaciones o de la ejecución de las obras que se realicen de acuerdo a los mismos. Además certifico que he visitado el lugar de las obras y que no hay indicios de que se haya producido por desconocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ICPA.

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| SYM. | DESCRIPTION | BY | DATE |
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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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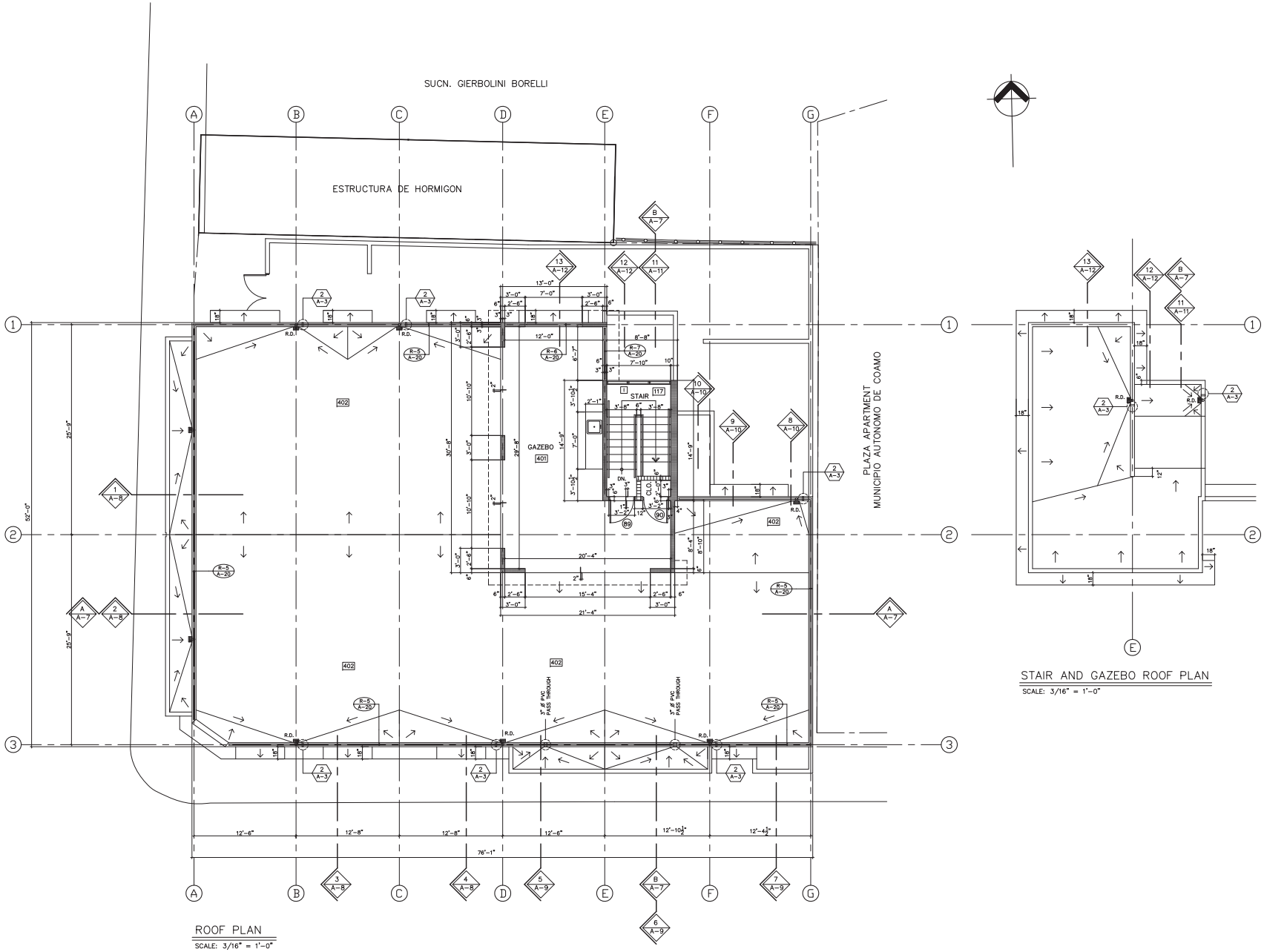
DRAWING TITLE
THIRD FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-3 |
| DATE 7/07/2019 | |




ROOF PLAN
SCALE: 3/16" = 1'-0"



STAIR AND GAZEBO ROOF PLAN
SCALE: 3/16" = 1'-0"

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EDIFICIO DE USO MIXTO
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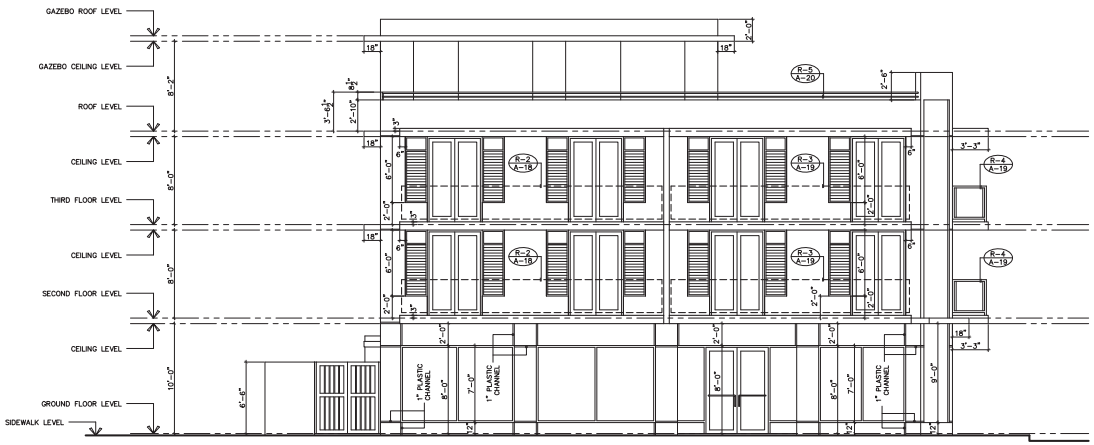
DRAWING TITLE
ROOF PLAN AND
STAIR ROOF PLAN

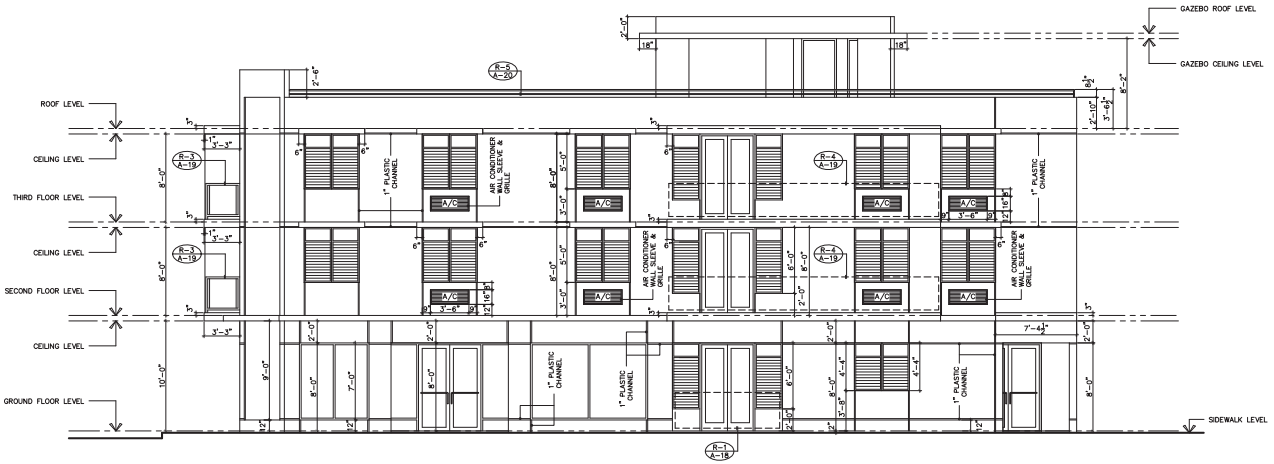
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-4 |
| DATE 4/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de este proyecto. Además, certifico que he visitado el lugar de la construcción y que he supervisado la construcción de este proyecto hasta el punto de terminación. Por lo tanto, certifico que he hecho todo lo razonablemente posible para asegurar que la construcción de este proyecto se ajuste a los planos y especificaciones aprobados y a todas las reglamentaciones aplicables. Por lo tanto, no me hago responsable de cualquier acción, judicial y disciplinaria por la ley.




WEST ELEVATION

SCALE: 3/16" = 1'-0"




SOUTH ELEVATION

SCALE: 3/16" = 1'-0"

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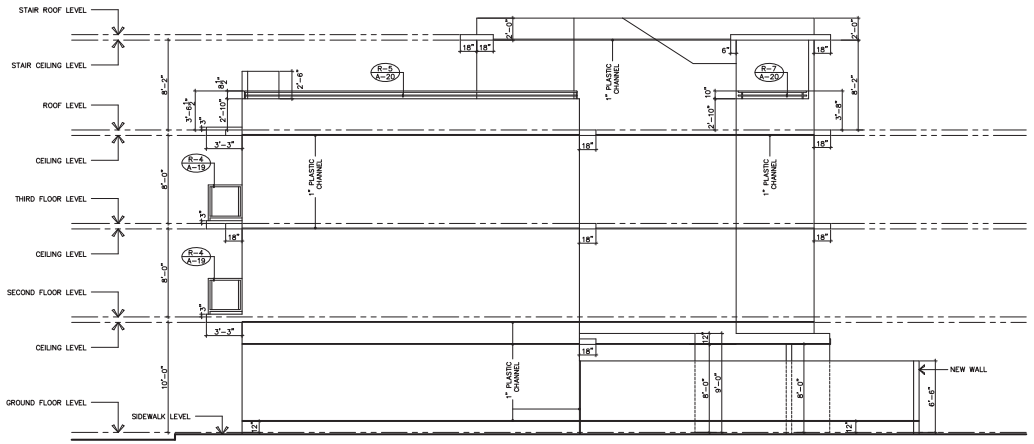
DRAWING TITLE

WEST AND SOUTH ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-5 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de este proyecto. Además, certifico que he visitado el lugar de la construcción y que he supervisado la preparación de estos planos y especificaciones y que he hecho las inspecciones necesarias para asegurar que la construcción de este proyecto se ajuste a estos planos y especificaciones. Además, certifico que he hecho todas las investigaciones necesarias y que no tengo conocimiento de ningún hecho que no haya sido revelado que pueda afectar adversamente la salud y seguridad de las personas que ocupen o utilicen la estructura. Finalmente, certifico que he hecho todas las investigaciones necesarias y que no tengo conocimiento de ningún hecho que no haya sido revelado que pueda afectar adversamente la salud y seguridad de las personas que ocupen o utilicen la estructura. Además




EAST ELEVATION

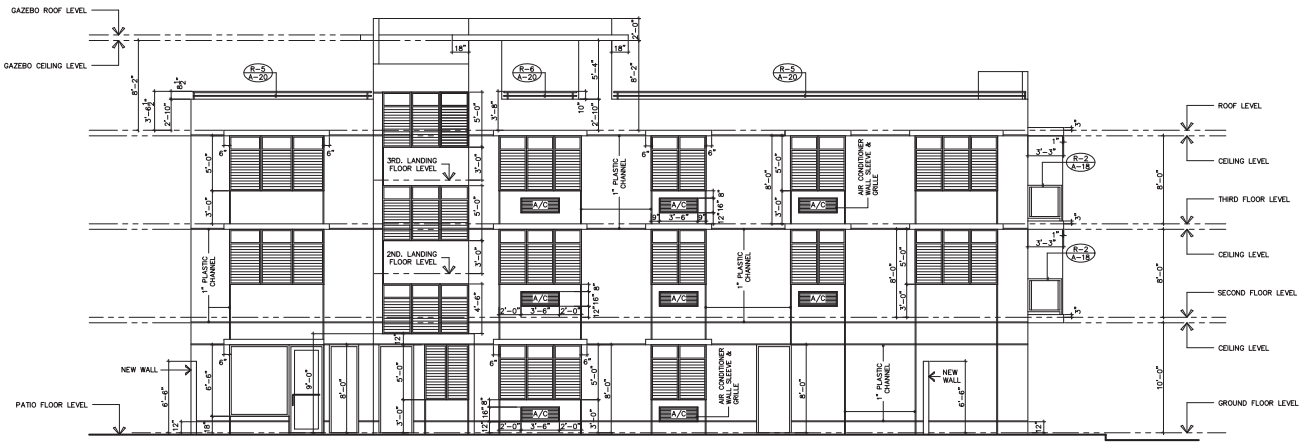
SCALE: 3/16" = 1'-0"

**AIR CONDITIONERS WALL SLEEVES AND GRILLES NOTES :**

1. FINAL MASONRY AND AIR CONDITIONERS WALL SLEVES DIMENSIONS SHALL BE FIELD VERIFIED.

2. HEAVY-GAUGE GALVANIZED STEEL, WITH INSULATION, AIR CODITIONERS WALL SLEEVES SHALL BE EQUALS OR APROVED EQUALS AS GENERAL ELECTRIC ZONELINE WALL SLEEVE RAB71.

3. STAMPED ALUMINUM GRILLES SHALL BE EQUALS OR APROVED EQUALS AS GENERAL ELECTRIC ZONELINE GRILLE RAG60.




NORTH ELEVATION

SCALE: 3/16" = 1'-0"

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REVISIONS

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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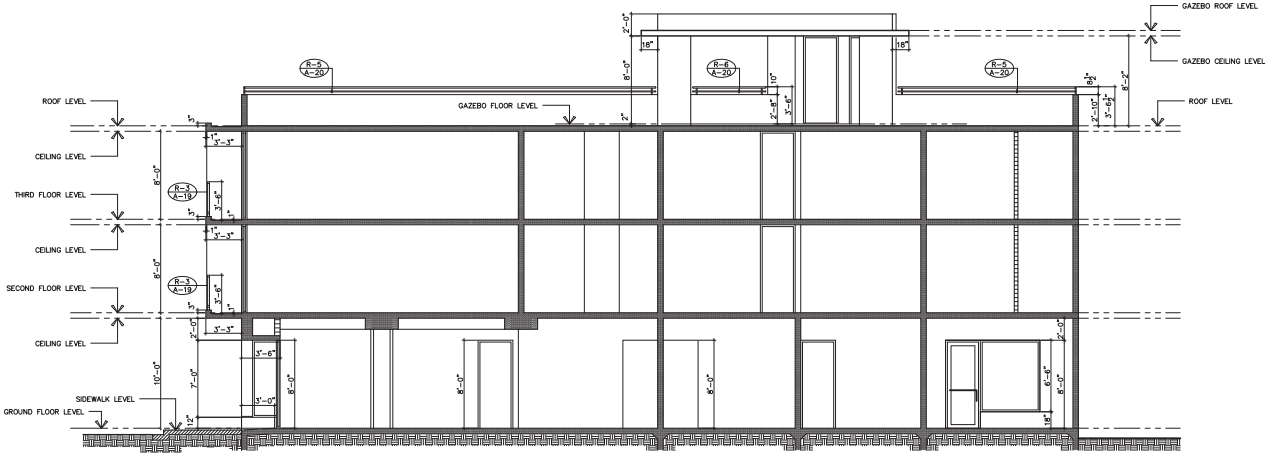
DRAWING TITLE

EAST AND NORTH ELEVATIONS

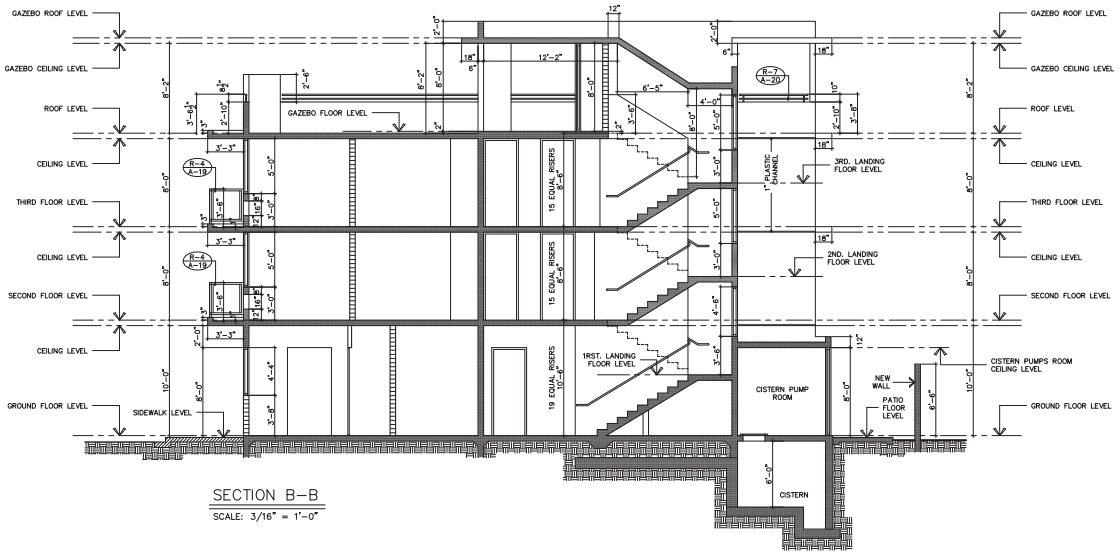
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-6 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, dueña de licencia 8445, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones estatales y federales aplicables a la construcción de edificios públicos y privados, incluyendo las relativas a accesibilidad para personas con impedimentos. Asimismo certifico que entiendo que soy responsable de cualquier violación a dichas reglamentaciones y que cualquier error, omisión o falsedad en la información provista en estos planos y especificaciones, o cualquier violación a dichas reglamentaciones, puede ser motivo de la revocación de mi licencia profesional y de la imposición de multas e indemnización de los hechos que se haya producido por desconocimiento o por negligencia y en ese por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ODPA.




SECTION A–A

SCALE: 3/16" = 1'–0"




SECTION B–B

SCALE: 3/16" = 1'–0"

NOTA:
Yo, Ilis Sánchez Arana, dueño de licencia 8445, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las reglamentaciones aplicables de la Administración de Reglamentos y Permisos (ARPE) y el Código de Construcción vigente. Además, certifico que he visitado el lugar de la obra y que no existe ninguna condición o estructura adyacente que pueda ser afectada adversamente por la construcción propuesta en estos planos, excepto lo que se indica en los mismos. Finalmente, certifico que he hecho todo lo razonablemente posible para asegurar que estos planos y especificaciones sean precisos y completos y que no omiten información necesaria para la construcción de la obra o información que pueda inducir a error a los licitadores o a la Administración de las Normas de Diseño. Asumo la responsabilidad profesional por cualquier daño o perjuicio que pueda ocurrir como consecuencia de errores, omisiones o información incorrecta en estos planos y especificaciones, hasta el límite de la responsabilidad profesional requerida por ley. Reconozco que la aprobación de estos planos y especificaciones por parte de la Administración de Reglamentos y Permisos no implica responsabilidad alguna por parte de la Administración por errores, omisiones o información incorrecta en estos planos y especificaciones, ni por la violación de las leyes que rigen el ejercicio de la profesión de ingeniería o arquitectura. Reconozco que cualquier violación a lo antes expresado constituye una violación a las leyes que rigen el ejercicio de la profesión de ingeniería o arquitectura en Puerto Rico y me someto voluntariamente a la jurisdicción de los tribunales de Puerto Rico para hacer valer cualquier acción judicial y disciplinaria por lo aquí expresado. Certifico además que he leído el contenido de esta certificación y que todos los hechos aquí consignados son ciertos, correctos y completos de mi conocimiento personal. Finalmente, certifico que he preparado esta certificación voluntariamente y bajo ningún tipo de coacción, amenaza o promesa de remuneración. En fe de lo cual firmo la presente en San Juan, Puerto Rico, hoy 12 de julio de 2019.
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| SYM. | DESCRIPTION | BY | DATE |
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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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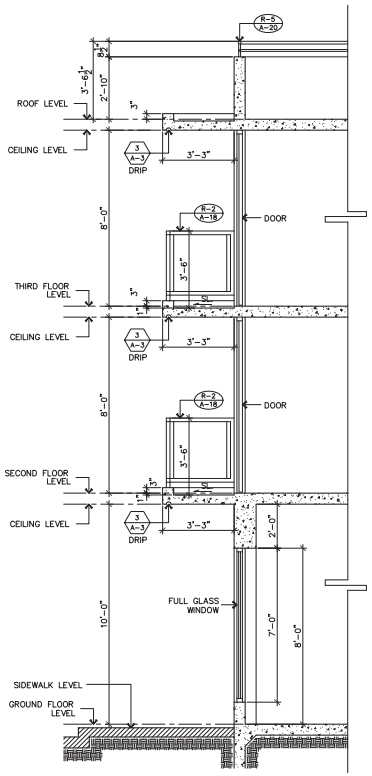
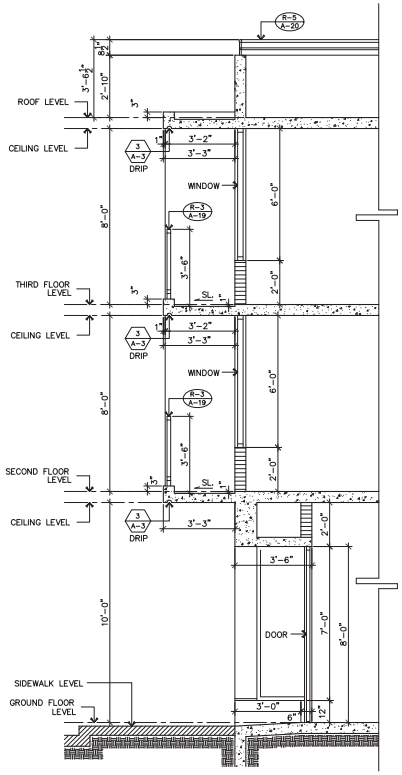
DRAWING TITLE

SECTIONS A-A AND B-B

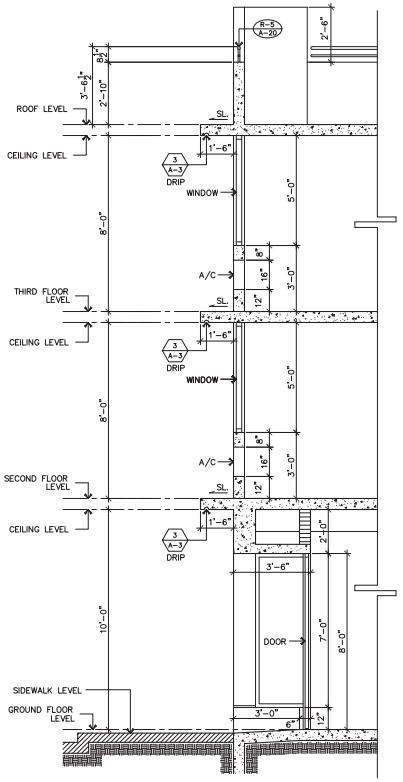
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-7 |
| DATE 12/07/2019 | |



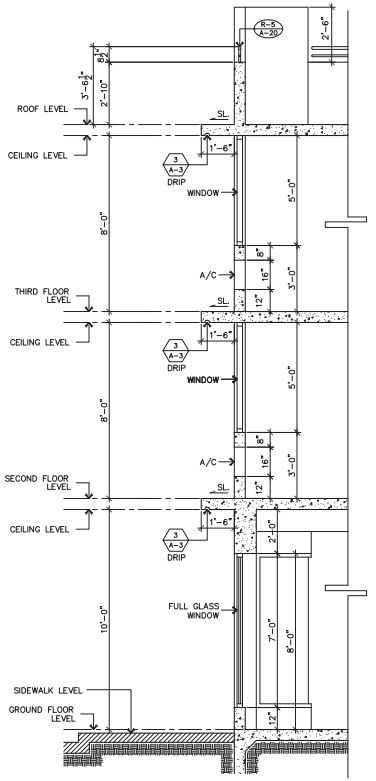

WALL SECTION 1
SCALE: 3/8" = 1'-0"




WALL SECTION 2
SCALE: 3/8" = 1'-0"




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




WALL SECTION 4
SCALE: 3/8" = 1'-0"

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illesanchezarana@yahoo.com 787-390-3788

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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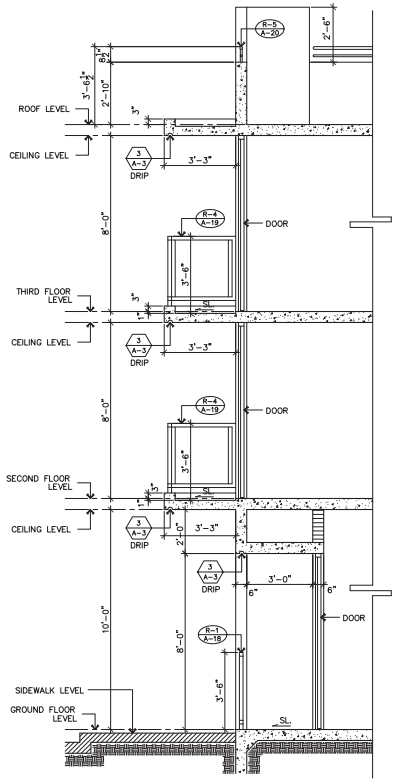
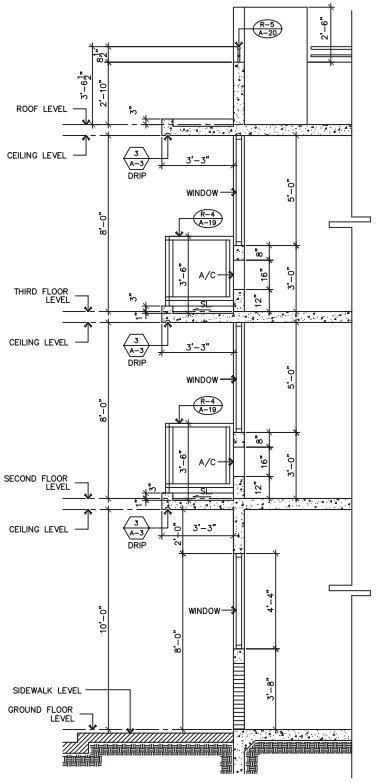
DRAWING TITLE
WALL SECTIONS
1, 2, 3 AND 4

| PROJECT | SHEET NO. OF |
|---|---|
| DESIGNED S.A.A. | DRAWING A-8 |
| DRAWN | |
| DATE 12/07/2019 | |

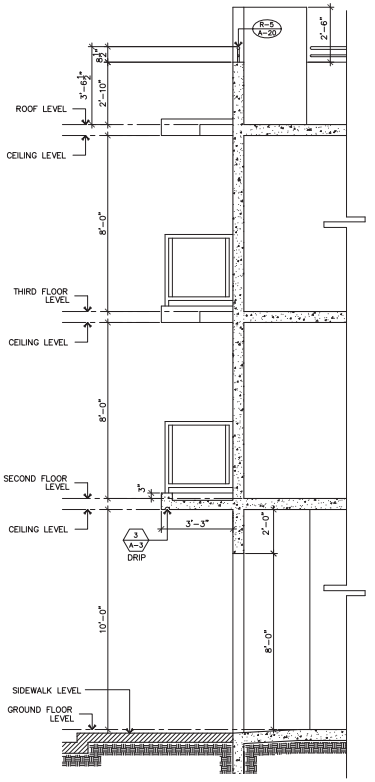
NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento en el diseño de estos planos e inobservancia de las leyes aplicables a la profesión de arquitectura. Además certifico que he visitado el lugar de la obra y que no hay impedimento alguno para la construcción de la misma. Finalmente, certifico que he verificado la información suministrada por el dueño de la obra y que la misma es correcta y fidedigna en todos sus extremos. Asimismo




WALL SECTION 5
SCALE: 3/8" = 1'-0"




WALL SECTION 6
SCALE: 3/8" = 1'-0"




WALL SECTION 7
SCALE: 3/8" = 1'-0"

SANCHEZ ARANA ARQUITECTOS
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787-235-3670 illssanchezarana@yahoo.com 787-390-3788

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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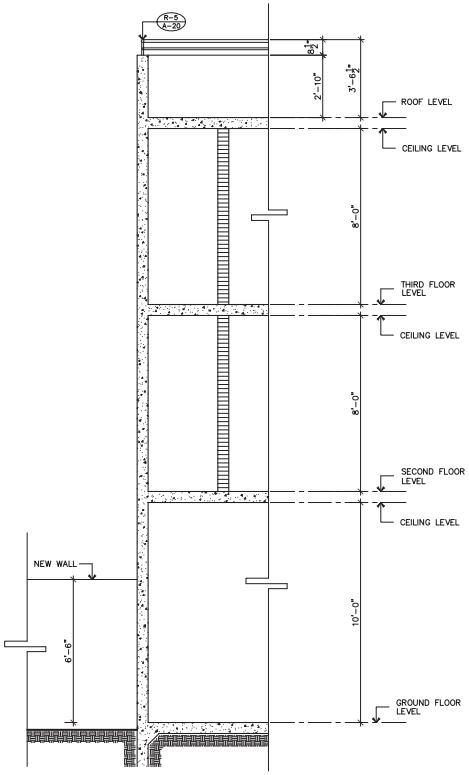
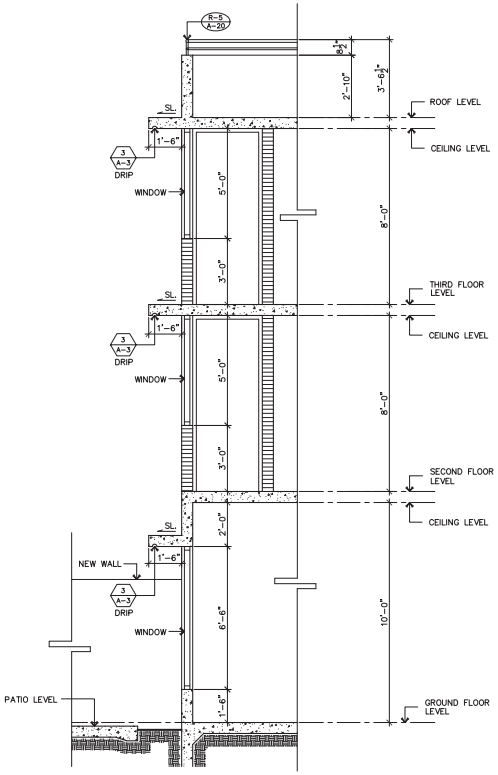
DRAWING TITLE
WALL SECTIONS
5, 6, AND 7

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-9 |
| DATE 12/07/2019 | |

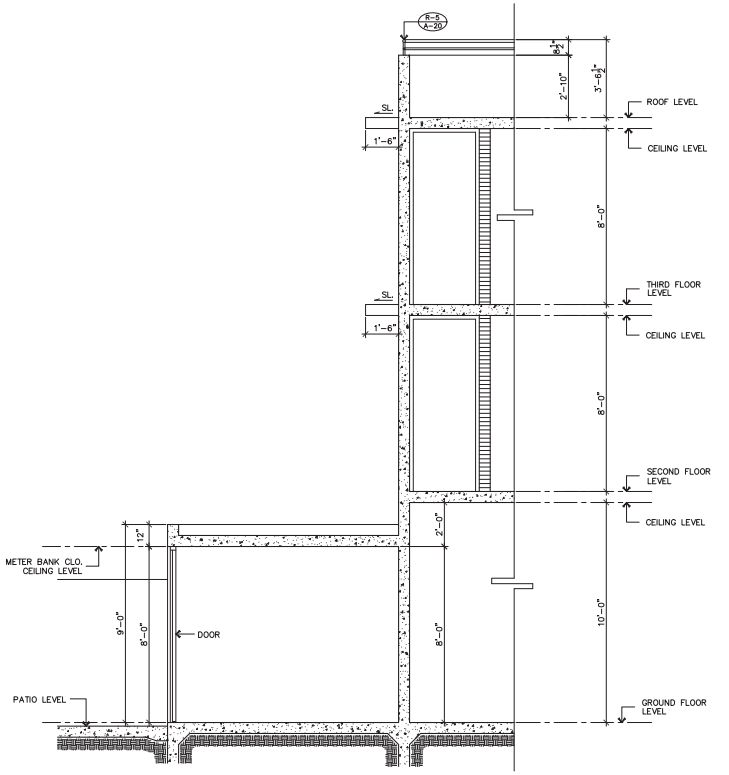
NOTA:
Yo, Ilis Sánchez Arana, número de licencia #443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que he diseñado estos planos de acuerdo a las reglas de la buena práctica de la profesión de arquitectura y que no soy responsable de cualquier modificación de los mismos que no sea hecha por mí, mis agentes o empleados, o por otras personas con mi consentimiento, ni tampoco responsable de cualquier acción judicial y disciplinaria por la 130%.




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

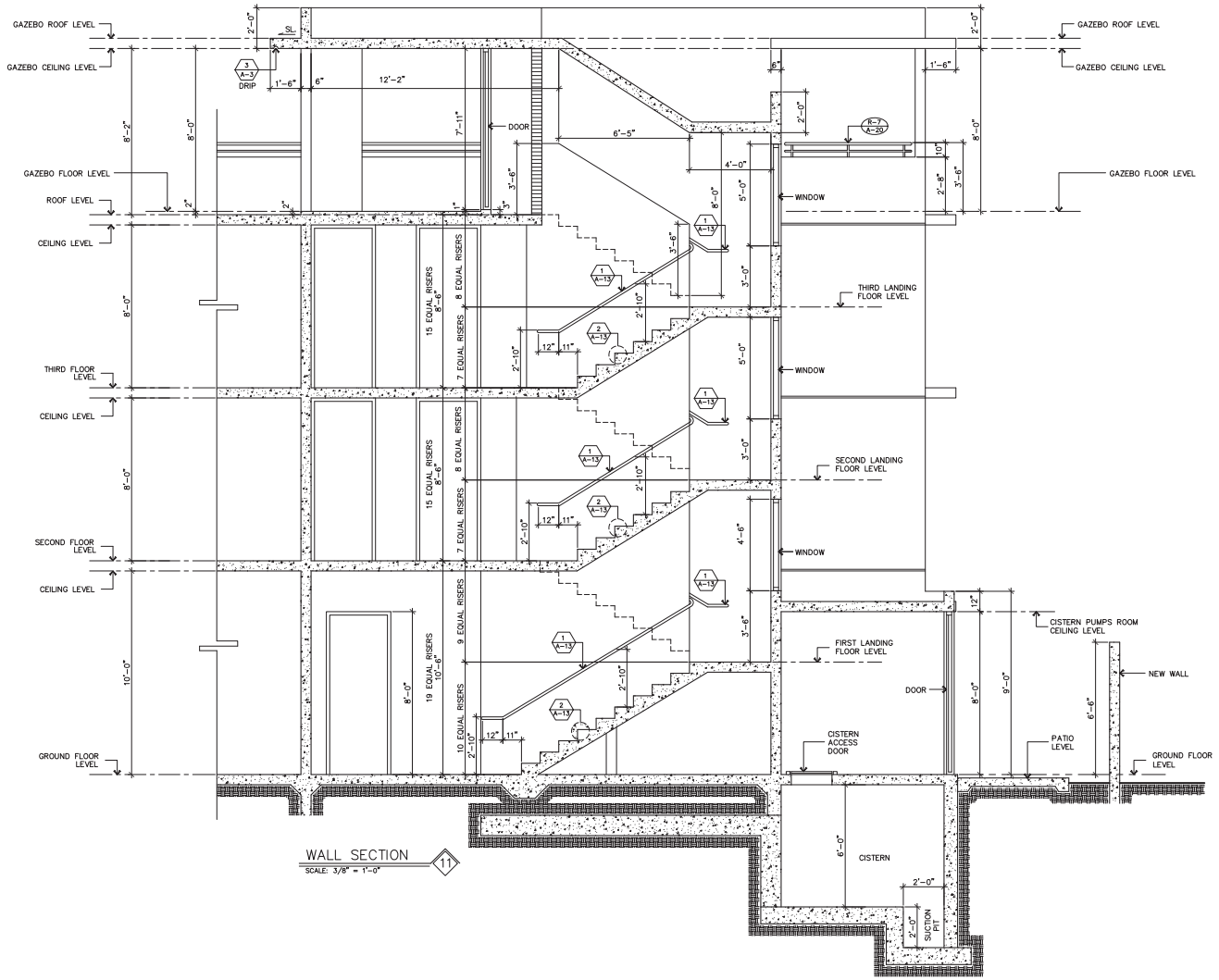



WALL SECTION 9
SCALE: 3/8" = 1'-0"




WALL SECTION 10
SCALE: 3/8" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, número de licencia #442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, entiendo que es mi responsabilidad como profesional cumplir




NOTA:
Yo, Ilis Sánchez Arana, número de licencia #443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos vigente. Además, entiendo que es mi responsabilidad como profesional autorizado a ejercer la profesión en Puerto Rico, cumplir con todas las disposiciones aplicables de dicho Reglamento y que cualquier violación a las mismas o falsificación de los hechos que en hoja protocolo por desconocimiento o por negligencia yo use por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la cual.

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illissanchezarana@yahoo.com 787-390-3788

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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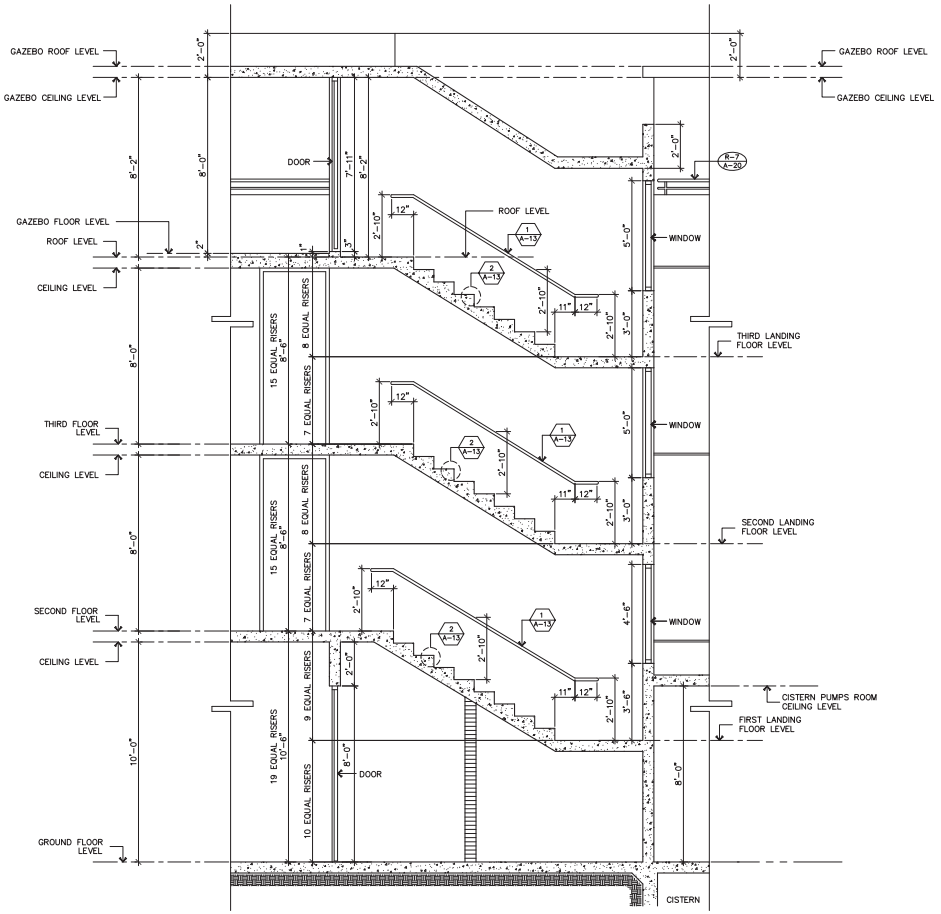
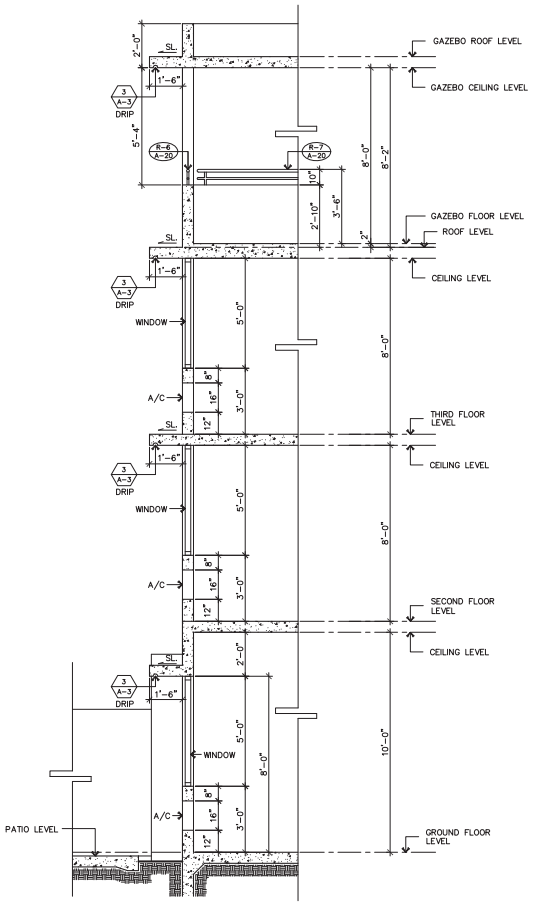
DRAWING TITLE
WALL SECTION 11

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-11 |
| DATE 12/07/2019 | |




WALL SECTION 12
SCALE: 3/8" = 1'-0"




WALL SECTION 13
SCALE: 3/8" = 1'-0"

SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 illssanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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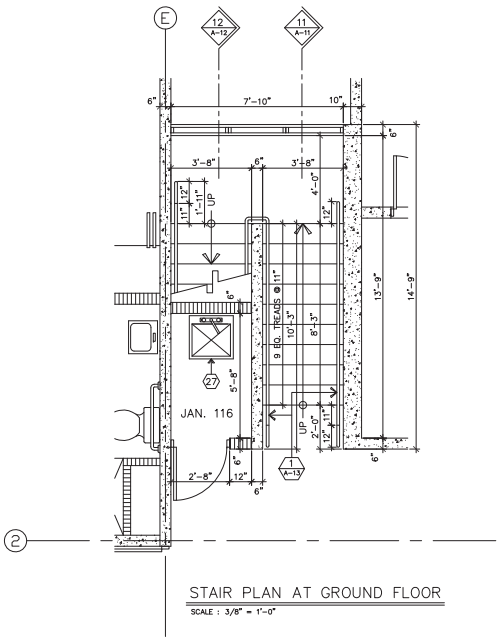
DRAWING TITLE
WALL SECTIONS
12 AND 13

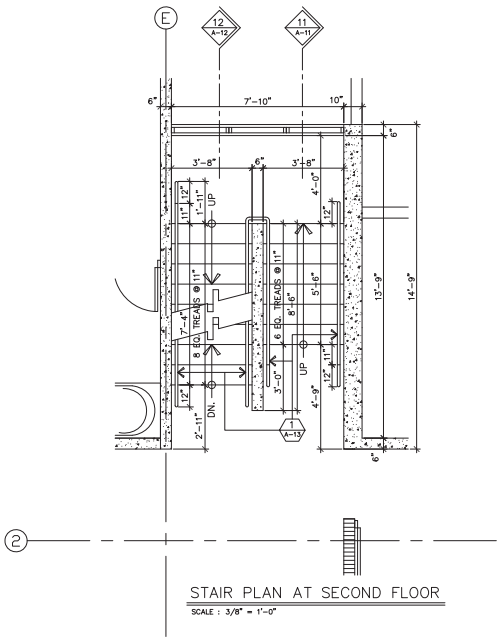
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-12 |
| DATE 12/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó dichos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos y que asumo la responsabilidad profesional por los mismos. Entiendo además que cualquier error, omisión o violación a dicho Reglamento que se haga constar en estos planos y especificaciones, así como cualquier daño o perjuicio que se ocasione a terceros como consecuencia de la preparación o utilización de los mismos o falsificación de los hechos que en ellos se hayan producido por desconocimiento o por negligencia de mi parte, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la cual



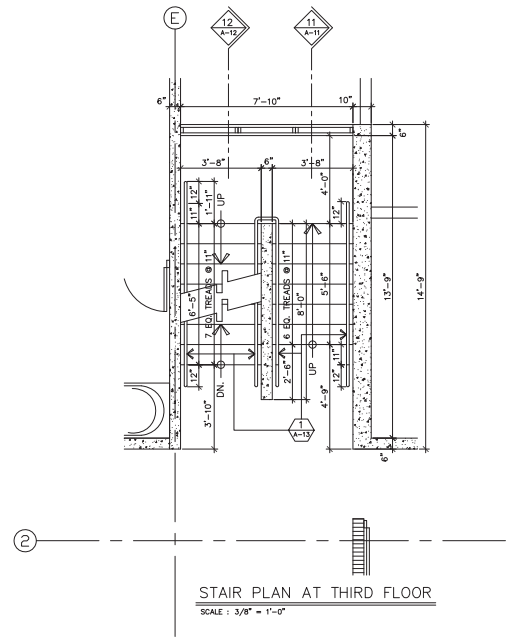

STAIR PLAN AT GROUND FLOOR

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



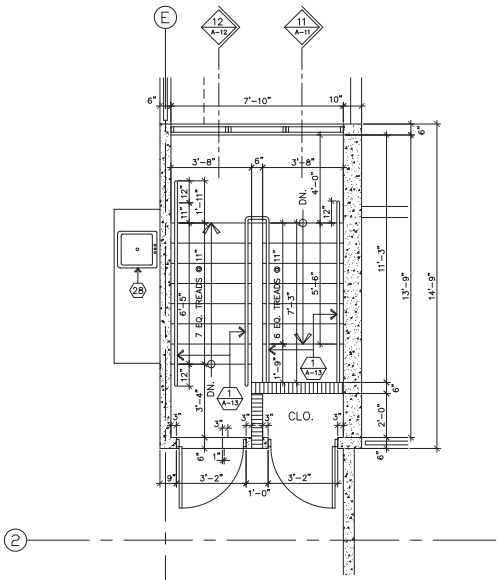

STAIR PLAN AT SECOND FLOOR

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



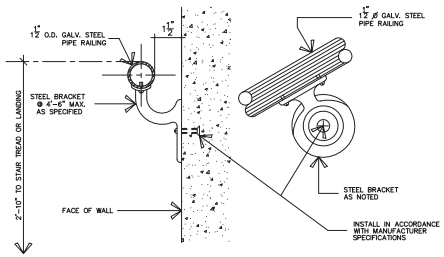

STAIR PLAN AT THIRD FLOOR

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



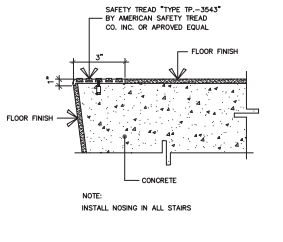

STAIR PLAN AT ROOF LEVEL

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



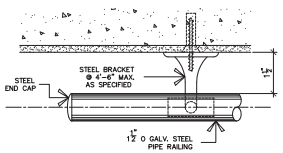

HANDRAIL DETAIL

N.T.S.




TREAD DETAIL 2 A-13

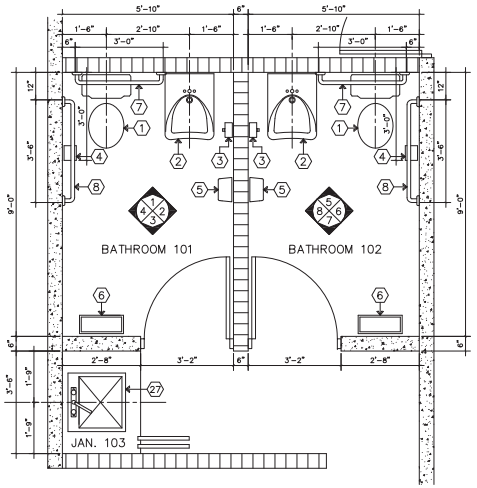
N.T.S.




TYPICAL HANDRAIL END CONDITION

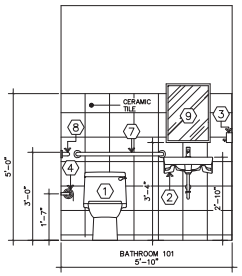
N.T.S.

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8442, certifico que soy el profesional con conocimiento y/o dominio y/o manejo alto de los planos y las especificaciones complementarias. También certifico que archivos que archivos para el proyecto alcance de obra que se describe en el título de este plano. Además certifico que he revisado los planos y las especificaciones complementarias y que no he encontrado ninguna contradicción o ambigüedad en los mismos. Finalmente



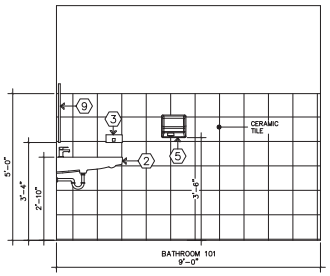

BATHROOMS 101 AND 102

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



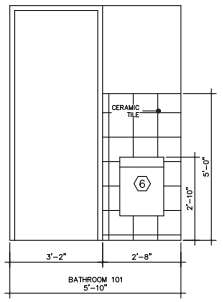

ELEVATION 1

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



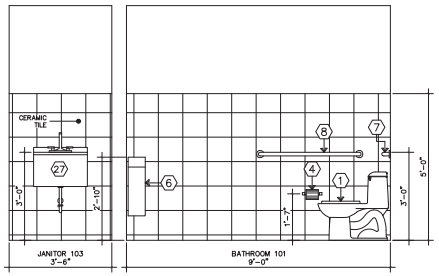

ELEVATION 2

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



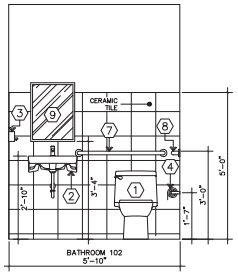

ELEVATION 3

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



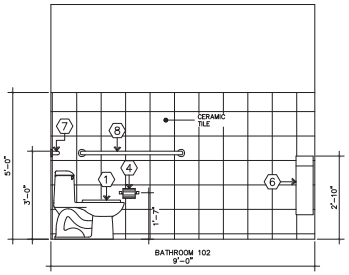

ELEVATION 4

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



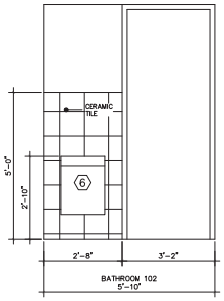

ELEVATION 5

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



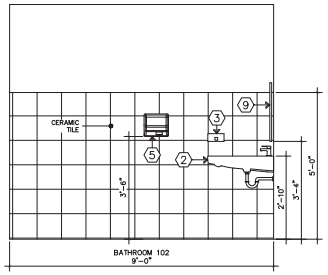

ELEVATION 6

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



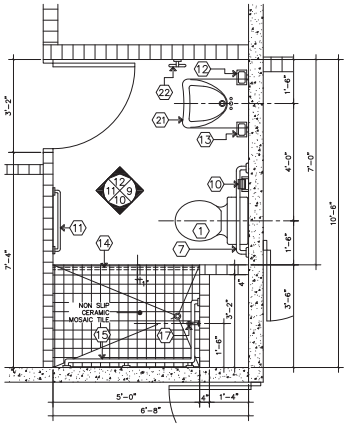

ELEVATION 7

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



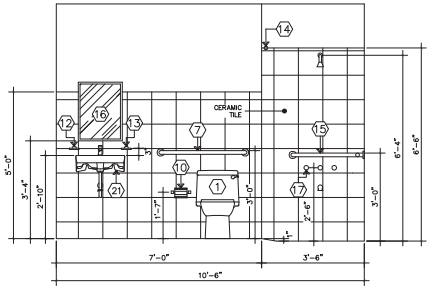

ELEVATION 8

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



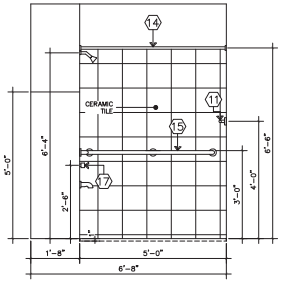

BATHROOM 110

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



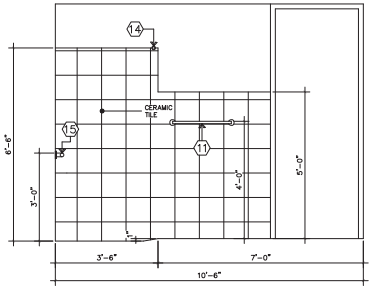

ELEVATION 9

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



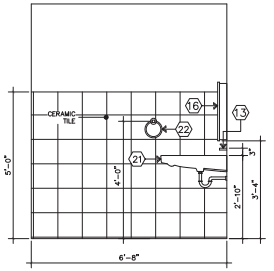

ELEVATION 10

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




ELEVATION 11

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




ELEVATION 12

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

**NOTA:**
Yo, Ilia Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

SANCHEZ ARANA ARQUITECTOS
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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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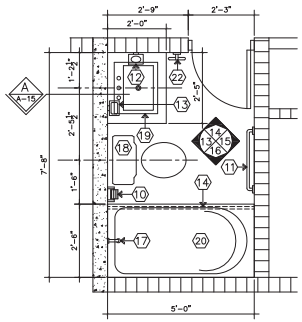
DRAWING TITLE

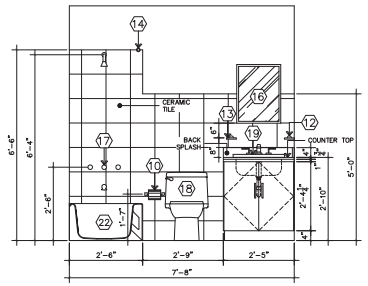
BATHROOMS 101, 102 AND 110
FLOOR PLANS AND ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-14 |
| DATE 5/07/2019 | |



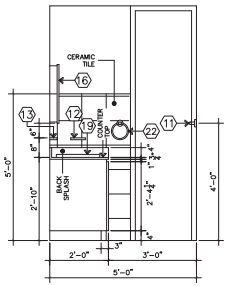
BATHROOMS 213, 215. 224 (MIRROR IMAGE)
313, 315 AND 324 (MIRROR IMAGE)

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



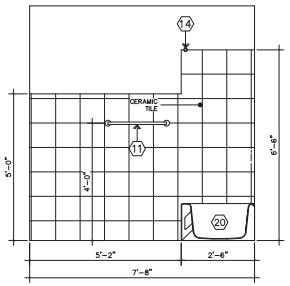
ELEVATION 13

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



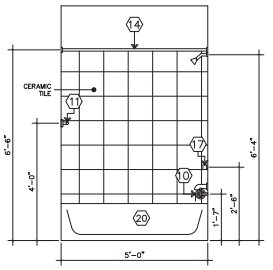
ELEVATION 14

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



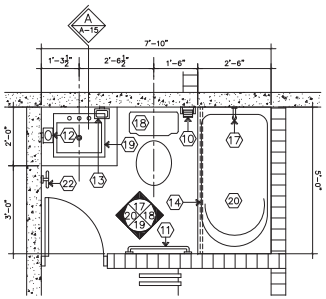
ELEVATION 15

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



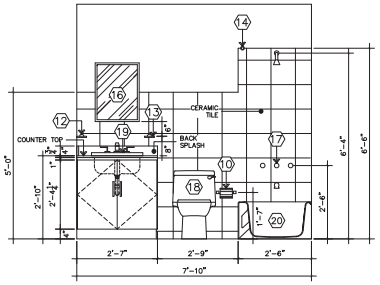
ELEVATION 16

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



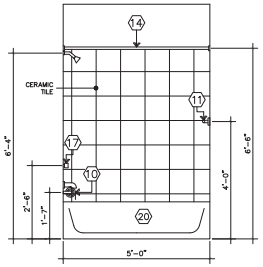
BATHROOMS 234 AND 334

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



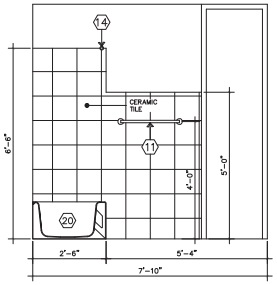
ELEVATION 17

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



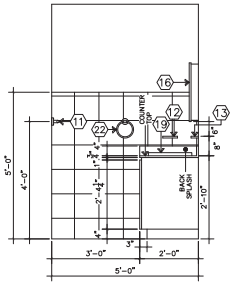
ELEVATION 18

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



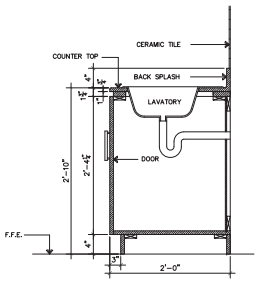
ELEVATION 19

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



ELEVATION 20

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



SECTION A

SCALE : 1" = 1'-0"

**SCHEDULE OF BATHROOM FIXTURES AND ACCESSORIES**

| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
|---|---|---|---|---|---|
| 1 | ADA COMPLIANT TOILET | AMERICAN STANDARD | CADET 3 270FA.101 | WHITE | 1.28 GPF FLUSHOMETER TOILET SYSTEM A.S. TOILET SEAT 5257A.65MT |
| 2 | ADA COMPLIANT LAVATORY | AMERICAN STANDARD | WHEELCHAIR USERS 9141.011 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2275.509 |
| 3 | SOAP DISPENSER | BOBRICK | B-2112 | SATIN S.S. | SURFACE-MOUNTED SOAP DISPENSER |
| 4 | TOILET TISSUE DISPENSER | BOBRICK | B-4288 | SATIN S.S. | SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER |
| 5 | HAND DRYER | AMERICAN DRYER | EXT7-C | STEEL SATIN CHROME | ECO FRIENDLY HAND DRYER |
| 6 | WASTE RECEPTACLE | BOBRICK | B-279 | SATIN S.S. | |
| 7 | GRAB BAR 36" | BOBRICK | B-6806 X 36 | SATIN S.S. | |
| 8 | GRAB BAR 42" | BOBRICK | B-6806 X 42 | SATIN S.S. | |
| 9 | TILT MIRROR | BOBRICK | B-293 1830 | SATIN S.S. | 18" X 30" TILT MIRROR WITH S.S. FRAME |
| 10 | TOILET PAPER HOLDER | MOEN | 5308CH | CHROME | YORKSHIRE SPRING LOADED PAPER HOLDER |
| 11 | TOWEL BAR | MOEN | 5324CH | CHROME | YORKSHIRE 24" TOWEL BAR |
| 12 | SOAP DISH | CROYDEX | QM201941 | CHROME | WESTMINSTER SOAP DISH |
| 13 | TOOTH BRUSH TUMBLER HOLDER | CROYDEX | QM201841 | CHROME | WESTMINSTER TUMBLER & HOLDER |
| 14 | SHOWER CURTAIN ROD | MOEN | TR1002CH | CHROME | TENSION CURTAIN SHOWER ROD |
| 15 | L SHAPED GRAB BAR | BOBRICK | B-68616 | SATIN S.S. | SHOWER COMPARTMENT BAR 24 X 36 |

**SCHEDULE OF BATHROOM FIXTURES AND ACCESSORIES**

| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
|---|---|---|---|---|---|
| 16 | MEDICINE CABINET | KOHLER | VERDERA K-99004-NA | N/A | W: 20", H: 26", D: 4 ½" |
| 17 | FAUCET & FITTINGS | AMERICAN STANDARD | RELIANT 3 TRIM KIT 7385.502 | CHROME | PROVIDE A.S. R120 SERIES PRESSURE BALANCE VALVE |
| 18 | TOILET | AMERICAN STANDARD | CADET 3 270FA.101 | WHITE | 1.28 GPF FLUSHOMETER TOILET SYSTEM A.S. TOILET SEAT 5257A.65MT |
| 19 | OVER THE COUNTER LAVATORY | AMERICAN STANDARD | RONDALYN 0491.019 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2175.502 |
| 20 | BATHTUB | AMERICAN STANDARD | NEW SALEM 0255 | WHITE | MODEL 0255.112 – RIGHT HAND OUTLET MODEL 0255.212 – LEFT HAND OUTLET |
| 21 | ADA COMPLIANT LAVATORY | AMERICAN STANDARD | WHEELCHAIR USERS 9141.011 | WHITE | A.S. COLONY SOFT FAUCET MODEL NO.: 2175.502 |
| 22 | TOWEL RING | MOEN | 5386CH | CHROME | YORKSHIRE TOWEL RING |
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**NOTA:**
Yo, Ilia Sánchez Arana, número de licencia 9441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OSPA.


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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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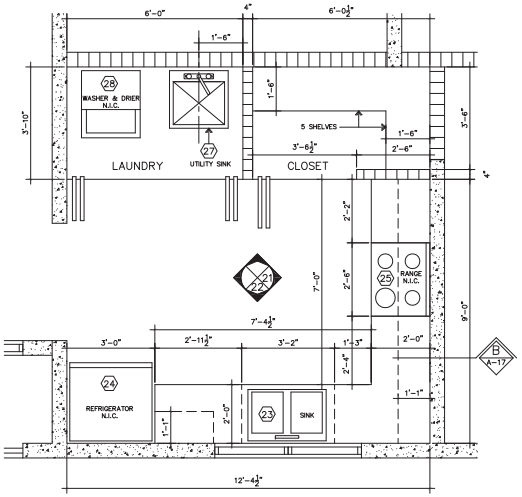
DRAWING TITLE

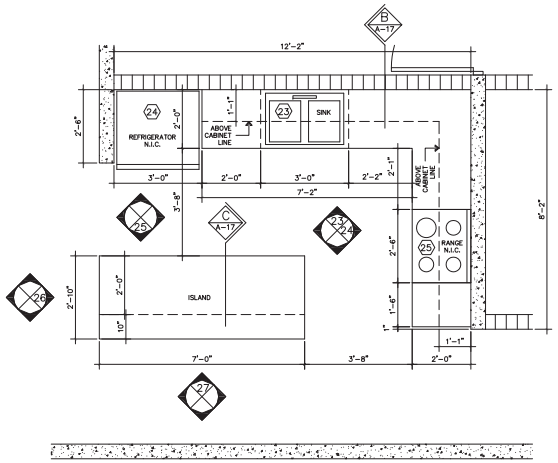
BATHROOMS 213, 215, 224, 313 315, 324, 234 AND 334 FLOOR PLANS AND ELEVATIONS

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-15 |
| DATE 7/07/2019 | |



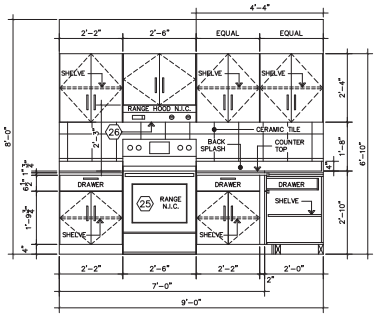

KITCHEN 105

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



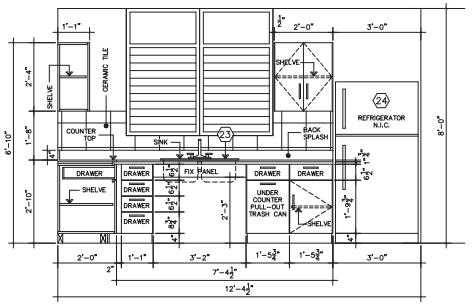

KITCHENS 206, 218 (MIRROR IMAGE), 306 AND 318 (MIRROR IMAGE)

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



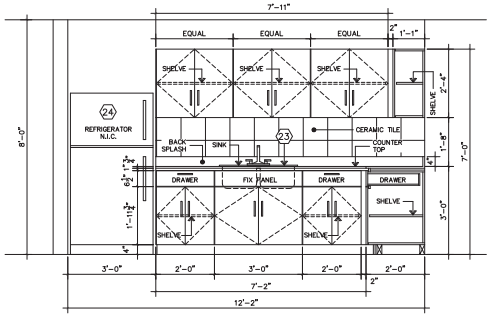

ELEVATION 21

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




ELEVATION 22

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




ELEVATION 23

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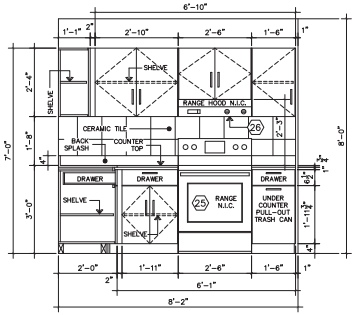
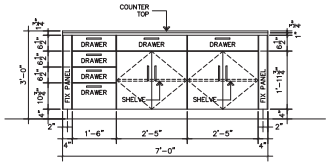


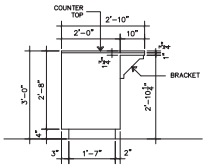

ELEVATION 24

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



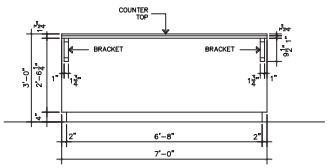

ELEVATION 25

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




ELEVATION 26

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




ELEVATION 27

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

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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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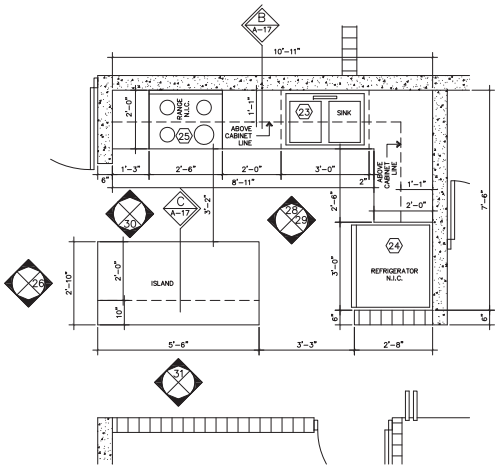
DRAWING TITLE
KITCHENS 106, 206,218, 306 AND 318 FLOOR PLANS AND ELEVATIONS

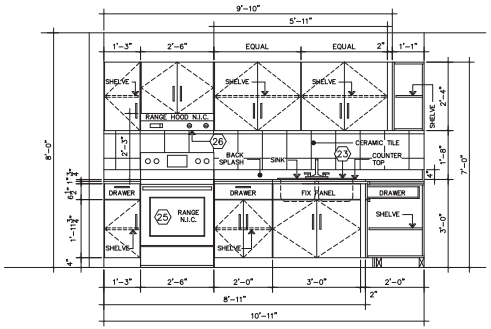
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-16 |
| DATE 5/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia #442, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente y que asumo la responsabilidad profesional por cualquier violación a dicho Reglamento o a cualquier otra ley o reglamento aplicable a la construcción de la obra. Además, certifico que he preparado estos planos y especificaciones de acuerdo a los estándares de mi profesión y que he cumplido con mi deber de diligencia en la preparación de los mismos. Finalmente, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico y que no tengo conflicto de interés en la preparación de estos planos y especificaciones. Por último, certifico que no he incurrido en fraude o en representación falsa en la preparación de estos planos y especificaciones y que no he omitido información esencial para la preparación de los mismos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Certifico además que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 119 de 30 de junio de 1976, según enmendada, conocida como la Ley para Garantizar el Derecho de las Personas con Impedimentos a Gozar de Facilidades Físicas Adecuadas en Edificios Públicos y Privados Abiertos al Público, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Finalmente, certifico que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 168 de 30 de agosto de 2000, según enmendada, conocida como la Ley para el Mejoramiento de la Vivienda, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Yo, Ilis Sánchez Arana, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico y que no tengo conflicto de interés en la preparación de estos planos y especificaciones. Por último, certifico que no he incurrido en fraude o en representación falsa en la preparación de estos planos y especificaciones y que no he omitido información esencial para la preparación de los mismos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias. Certifico además que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 119 de 30 de junio de 1976, según enmendada, conocida como la Ley para Garantizar el Derecho de las Personas con Impedimentos a Gozar de Facilidades Físicas Adecuadas en Edificios Públicos y Privados Abiertos al Público, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Finalmente, certifico que he preparado estos planos y especificaciones cumpliendo con las disposiciones de la Ley Núm. 168 de 30 de agosto de 2000, según enmendada, conocida como la Ley para el Mejoramiento de la Vivienda, y que he cumplido con todas las disposiciones de dicha ley y sus reglamentos. Entiendo que cualquier violación a lo aquí certificado o cualquier falsedad en lo aquí certificado puede conllevar la revocación de mi licencia profesional y la imposición de sanciones disciplinarias.



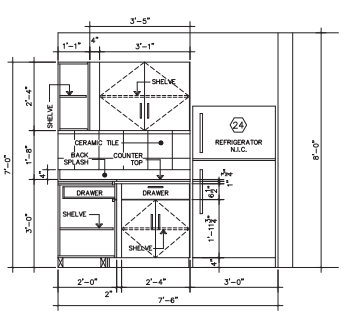

KITCHENS 228 AND 328

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



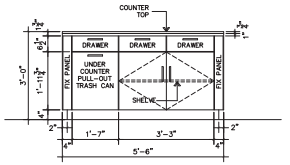

ELEVATION 28

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



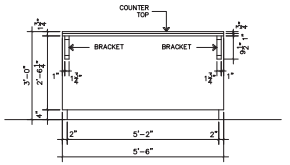

ELEVATION 29

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




ELEVATION 30

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




ELEVATION 31

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

## GENERAL MILLWORK NOTES

1- ALL WOOD MATERIAL WHETHER SOLID OR PLYWOOD SHALL BE TREATED AND KILN DRIED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS TT-W-570 AND TT-W-572.

2- ALL MATERIAL FOR ARCHITECTURAL WOODWORK SHALL BE TERMITE TREATED. ALL MOULDINGS BASE, GRILLED PANELS, FRAMES, AND OTHER SPECIFIED ELEMENTS SHAL RECEIVE SEALER AND PAINT AS SELECTED BY ARCHITECT.

3- ALL CABINET DOORS SHALL HAVE A CONCEALED HINGE EQUAL OR APPROVED EQUAL TO LIBERTY MODEL HC115FC-NP-C5.

4- ALL CABINET DRAWERS SHALL HAVE A SLIDE ON EACH SIDE EQUAL OR APPROVED EQUAL TO LIBERTY BALL BEARING DRAWER SLIDE.

5- ALL CLOSET AND STORAGE DOOR SHALL HAVE A CONTINUOUS PIANO HINGE EQUAL OR APPROVED EQUAL TO EVEBLIT CONTINUOUS HINGE.

6- CONTRACTOR SHALL COORDINATE THE SETTINGS OF ALL NECESSARY WOOD GROUNDS. CORNER CASINGS AND WOOD BLOCKING, WHICH WILL BE REQUIRED FOR THE EXECUTION OF THIS WORK.

7- COUNTER TOP SURFACES SHALL BE LAMINATED. PLASTIC LAMINATED EQ. OR APP. EQ. TO FORMICA 1816-58 FOG DUST MATTE FINISH.

8- SILICONE SEALANT SHALL BE USED TO CAULK AND SEAL UNDER THE SINK RIMS AND COUNTER TOP.

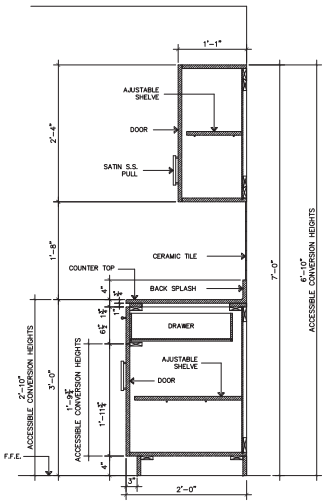
9- AT LEAST 3 CLIPS SHALL BE USED ON THE SIDES UNDER THE SINK RIMS.

10- ALL INTERIOR CABINET SURFACES SHALL BE FINISHED WITH AT LEAST ONE COAT LACQUER CLEAR OR VARNISH.

11- ALL EXPOSED SURFACES ON CABINETS SHALL BE PLASTIC LAMINATED, INCLUDING EDGES OF DOORS AND DRAWERS, PLASTIC LAMINATE EQ. OR APP. EQ. TO FORMICA 949-58 WHITE MATTE FINISH

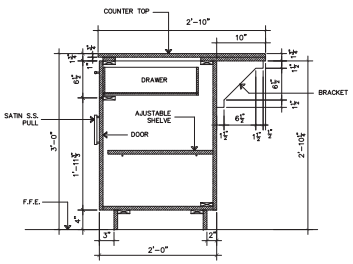
12- USE S.S. PULLS ON ALL CABINET DOORS AND DRAWERS, UNLESS OTERWISE NOTED.

13- SUBMIT, FOR THE APPROVAL OF THE ARCHITECT, SHOP DRAWINGS SHOWING LOCATION OF EACH ITEM, DIMENSIONED PLANS AND ELEVATIONS, LARGE-SCALE DETAILS, ATTACHMENT DEVICES AND OTHER COMPONENTS.



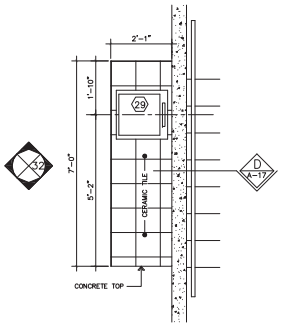

SECTION B

SCALE : 1" = 1'-0"



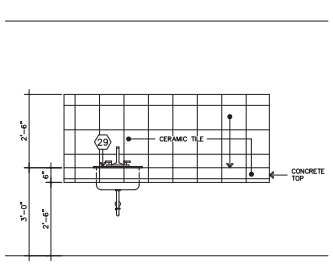

SECTION C

SCALE : 1" = 1'-0"



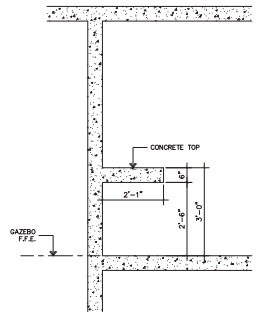

GAZEBO 401

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




ELEVATION 32

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




SECTION D

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

| SCHEDULE OF KITCHEN FIXTURES AND ACCESSORIES | | | | | |
|---|---|---|---|---|---|
| MKD | DESCRIPTION | MANUFACTURER | MODEL | FINISH | REMARKS |
| 23 | KITCHEN SINK | ELKAY | LUSTERTONE LR3321 | S.S. | FAUCET: AMERICAN STANDARD COLONY CHOICE MODEL # 4175.700.F15 |
| 24 | REFRIGERATOR | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 25 | RANGE | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 26 | RANGE HOOD | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 27 | UTILITY SINK | MUSTEE | 19W UTILATUB | WHITE | FAUCET: MUSTEE MODEL NO. 93.600 |
| 28 | WASHER & DRIER | ——— | ——— | ——— | NOT INCLUDED IN CONTRACT |
| 29 | KITCHEN SINK | ELKAY | LUSTERTONE LRD0202260 | S.S. | FAUCET: AMERICAN STANDARD COLONY CHOICE MODEL # 4175.700.F15 |
| | | | | | |
| | | | | | |

NOTA:
Yo, Ilis Sánchez Arana, número de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que archivo que dichos planos y especificaciones cumplen con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que no he delegado mi responsabilidad profesional a terceras personas y que no autorizo a terceras personas a alterar estos planos y especificaciones. Cualquier alteración de los mismos o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, no me hacen responsable de cualquier acción judicial y disciplinaria por la LCPA.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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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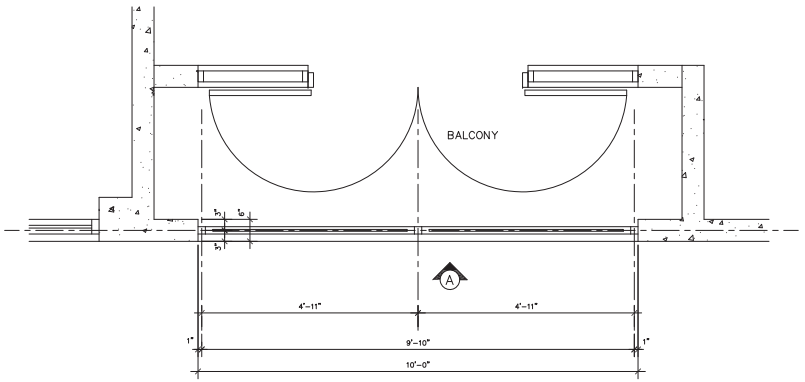
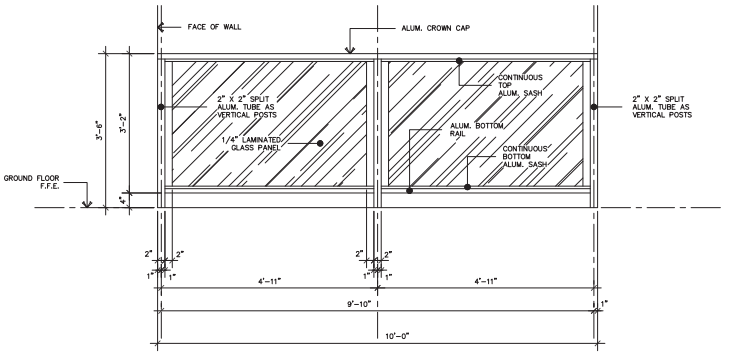
DRAWING TITLE

KITCHENS 228 AND 328
FLOOR PLANS AND ELEVATIONS
NOTES AND SCHEDULE

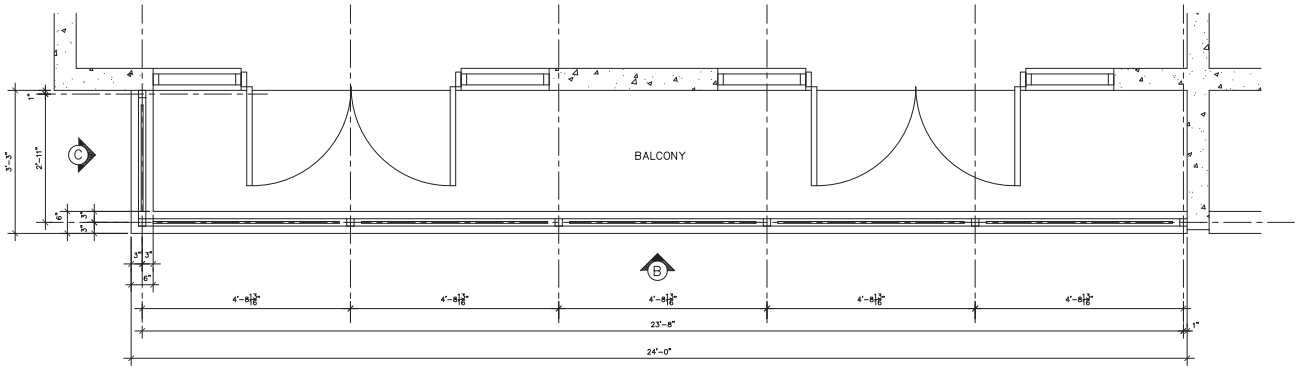
| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-17 |
| DATE 5/07/2019 | |



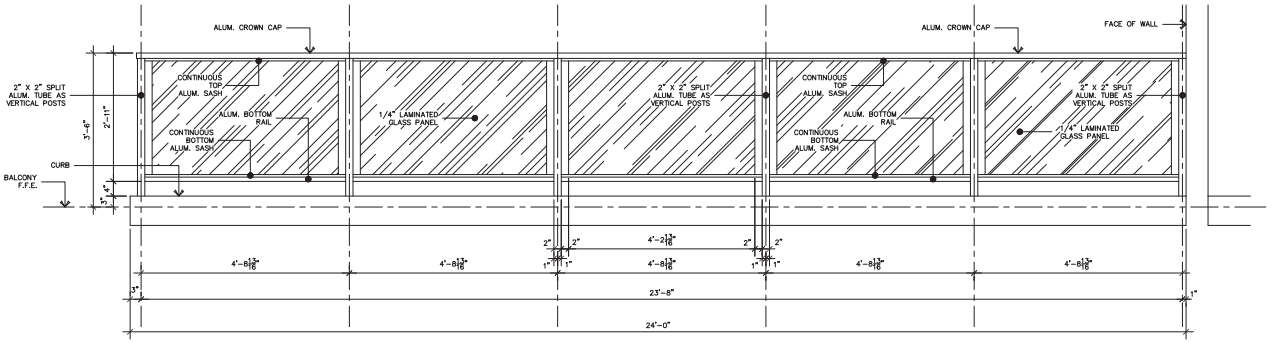

R-1 FLOOR PLAN
SCALE : 3/4" = 1'-0"



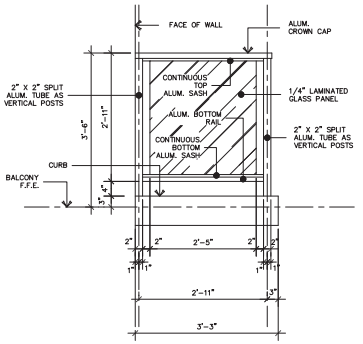

R-1 ELEVATION A
SCALE : 3/4" = 1'-0"




R-2 FLOOR PLAN
SCALE : 3/4" = 1'-0"




R-2 ELEVATION B
SCALE : 3/4" = 1'-0"




R-2 & R-4 ELEVATION C
SCALE : 3/4" = 1'-0"

NOTA:
Yo, Ilis Sánchez Arana, ajimen de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento conjunto de permisos y/o Código de Construcción vigentes de la Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación sustancial a dichos planos y especificaciones durante el proceso de construcción, sin la aprobación correspondiente, podría conllevar la revocación de mi(s) licencia(s) profesional(es) por el CIPR.

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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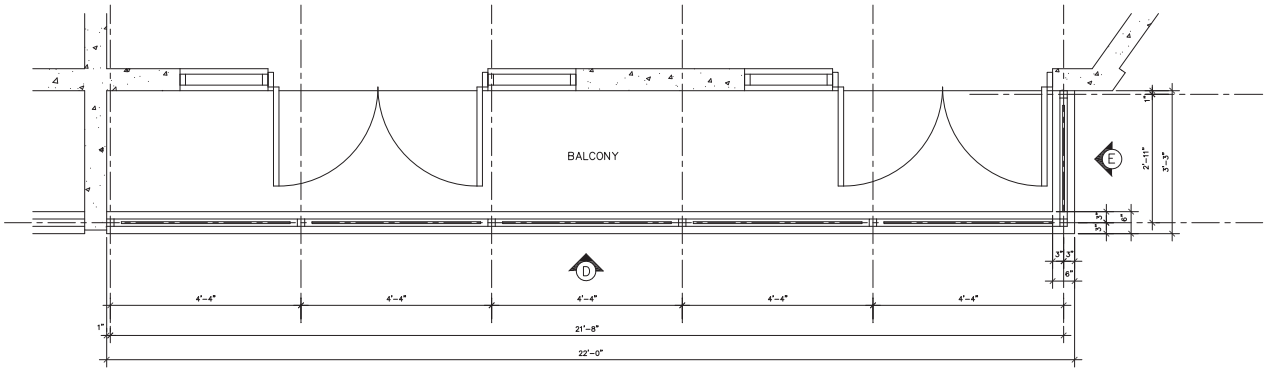
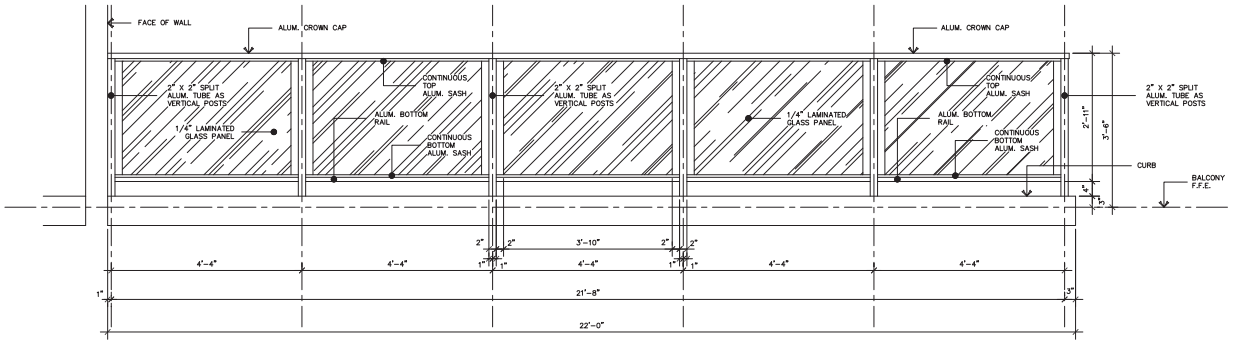
DRAWING TITLE
RAILINGS R-1 AND R-2
FLOOR PLANS AND ELEVATIONS

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-18 |
| DRAWN | |
| DATE 5/07/2019 | |



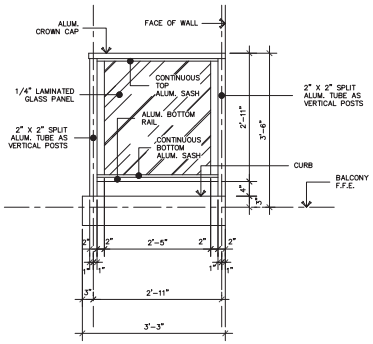

R-3 FLOOR PLAN

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



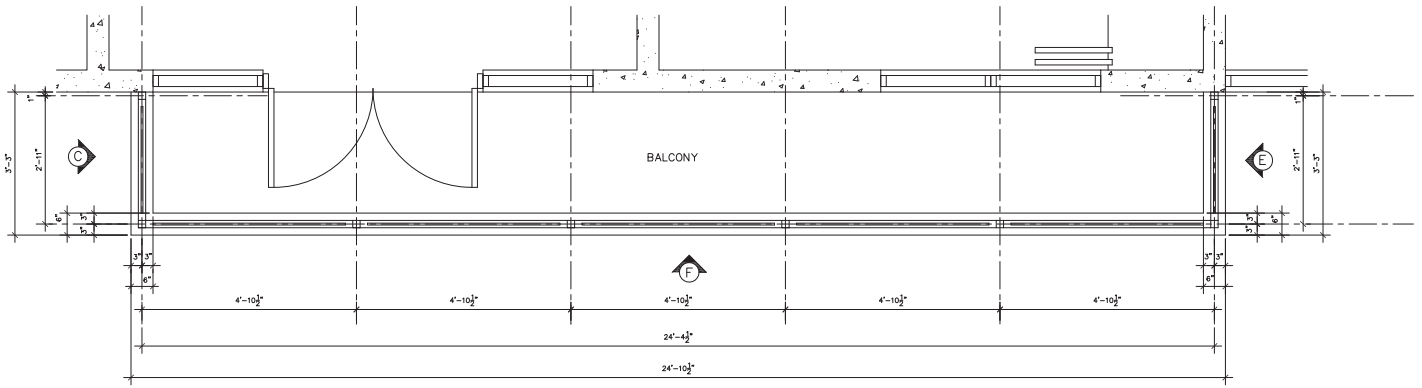

R-3 ELEVATION D

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




R-3 & R-4 ELEVATION E

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




R-4 FLOOR PLAN

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

NOTA:
Yo, Ilis Sánchez Arana, ojinem de licencia #441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento vigente y/o las disposiciones aplicables de las Reglamentos y/o Códigos de Construcción vigentes de la Agencia, salvo lo aprobado en la Consulta de Ubicación y/o Consulta de Permiso Público con jurisdicción. Reconozco que cualquier desviación de estos planos y especificaciones aprobados en la Consulta de Ubicación y/o Consulta de Permiso Público con jurisdicción, requerirá una consulta de ubicación y/o permiso nuevo o enmienda, y/o una nueva revisión o enmienda, de la misma manera como fueron originalmente aprobados.

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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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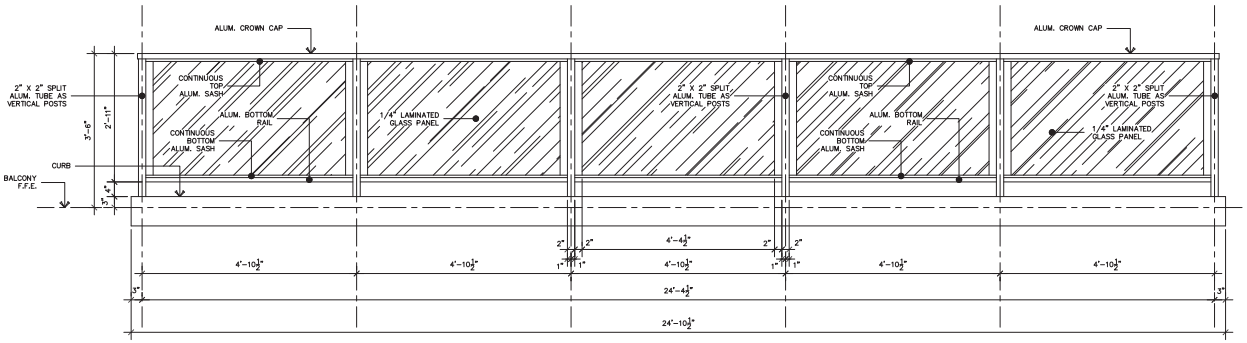
DRAWING TITLE

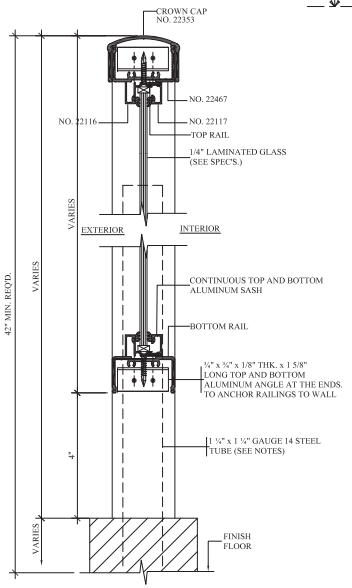
RAILING R-3 FLOOR PLAN
AND ELEVATIONS
AND RAILING R-4 FLOOR PLAN

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-19 |
| DATE 5/07/2019 | |



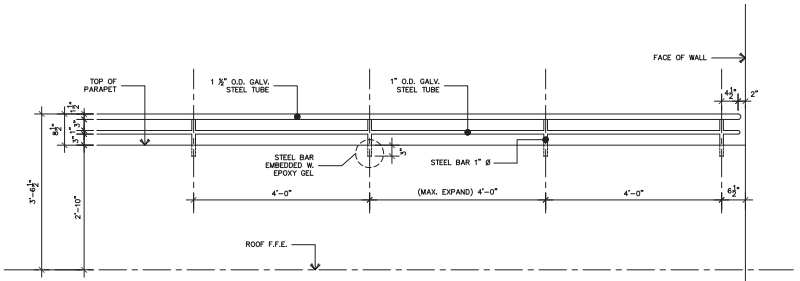

R-4 ELEVATION (F)

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



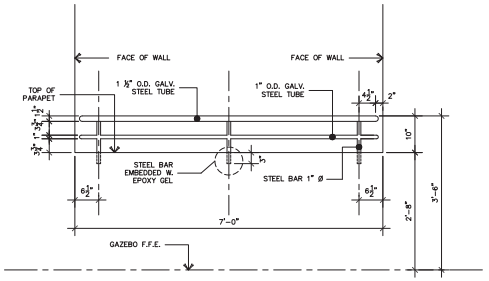

ALUMINUM AND GLASS BALCONY PICKET RAILING VERTICAL SECTION

N.T.S.



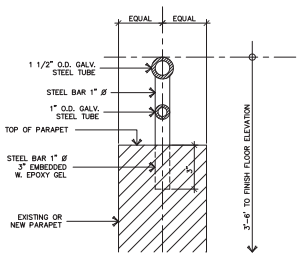

R-5 PARTIAL ELEVATION

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



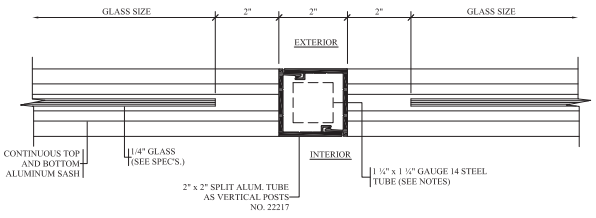

R-6 ELEVATION

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



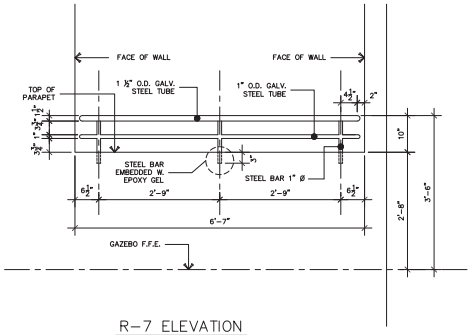

R-5, R-6 & R-7 VERTICAL SECTION

N.T.S.



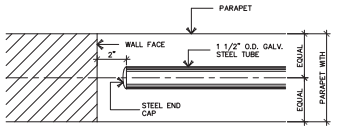

ALUMINUM AND GLASS BALCONY PICKET RAILING HORIZONTAL SECTION

N.T.S.




R-7 ELEVATION

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




R-5, R-6 & R-7 TYPICAL END DETAIL

N.T.S.

NOTA:
Yo, Ilis Sánchez Arana, ajimez de licencia 8441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento vigente y/o Código de Construcción vigente de la Jurisdicción, Ordenanzas y Comisiones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o disposiciones aplicables del Reglamento vigente y/o Código de Construcción vigente de la Jurisdicción, Ordenanzas y Comisiones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o engañosa en este documento, o en cualquier comunicación, de mi persona o compañía, a un alto oficial o empleado de la Jurisdicción, podría ser considerada como delito grave y/o delito menos grave y/o infracción administrativa y podría ser sancionada con una multa de $5,000.

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| SYM. | DESCRIPTION | BY | DATE |
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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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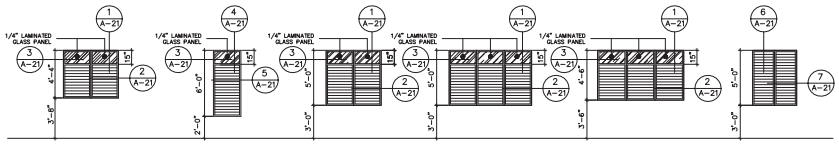
DRAWING TITLE

RAILINGS R-4, R-5, R-6 AND R-7 ELEVATIONS AND RAILINGS SECTIONS AND DETAIL

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING |
| DRAWN | A-20 |
| DATE 5/07/2019 | |




## WINDOWS ELEVATIONS

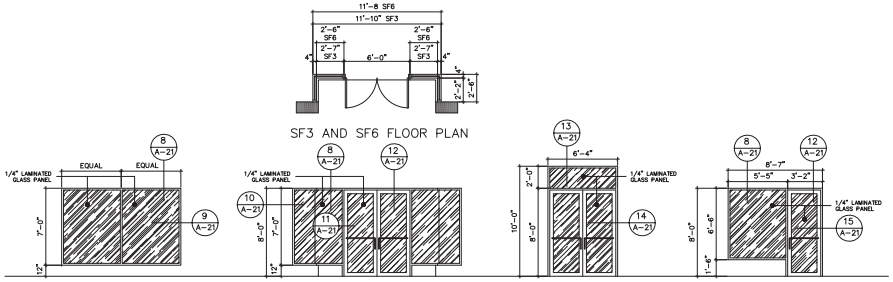
3/16" = 1'-0"

## WINDOW SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | UNITS | SILL HEIGHT | REMARKS |
|---|---|---|---|---|---|---|
| A | I | 5'-0" | 4'-4" | 2 | 5'-0" | |
| B | II | 2'-6" | 6'-0" | 1 | 2'-0" | SEE SOUTH ELEVATION AT SHEET A-5 |
| C | III | 5'-0" | 5'-0" | 2 | 3'-0" | |
| D | IV | 7'-6" | 5'-0" | 3 | 3'-0" | |
| E | VI | 4'-0" | 5'-0" | 2 | 3'-0" | |
| F | V | 7'-10" | 4'-6" | 3 | 3'-6" | |
| G | II | 2'-0" | 6'-0" | 1 | 2'-0" | SEE WEST ELEVATION AT SHEET A-5 |
| H | IV | 7'-10" | 5'-0" | 3 | 3'-0" | |
| I | IV | 8'-7" | 5'-0" | 3 | 3'-0" | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**WINDOWS NOTES :**

1. FINAL MASONRY AND WIDOWS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM JALOUSIE WINDOWS WITH UPPER FIXED GLASS PANEL SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALL ALUMINUM JALOUSIE WINDOW, 3" MASTER LOUVER OLD SAN JUAN TYPE.
3. ALUMINUM AND GLASS JALOUSIE WINDOWS WITH UPPER FIXED GLASS PANEL SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS WINDOW, 3" MASTER VIEW OLD SAN JUAN TYPE.
4. GALV. STEEL FIXED LOUVERS WINDOWS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER GALVANIZED STEEL 3" STEORM PROOF FIXED LOUVERS "Z" BLADE.
5. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
6. ALL WINDOWS SHALL BE PROVIDED WITH MANUFACTURER RECOMMENDED HARWARE.
7. ALL ALUMINUM SHALL HAVE POLYURETHANE POWDER BAKED FINISH; COLOR WHITE.
8. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
9. PROVIDE SCREENS FOR THE JALOUSIE WINDOWS.
10. U.O.N. ALL PART NUMBERS IN WINDOWS SECTIONS DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.




## STOREFRONTS ELEVATIONS

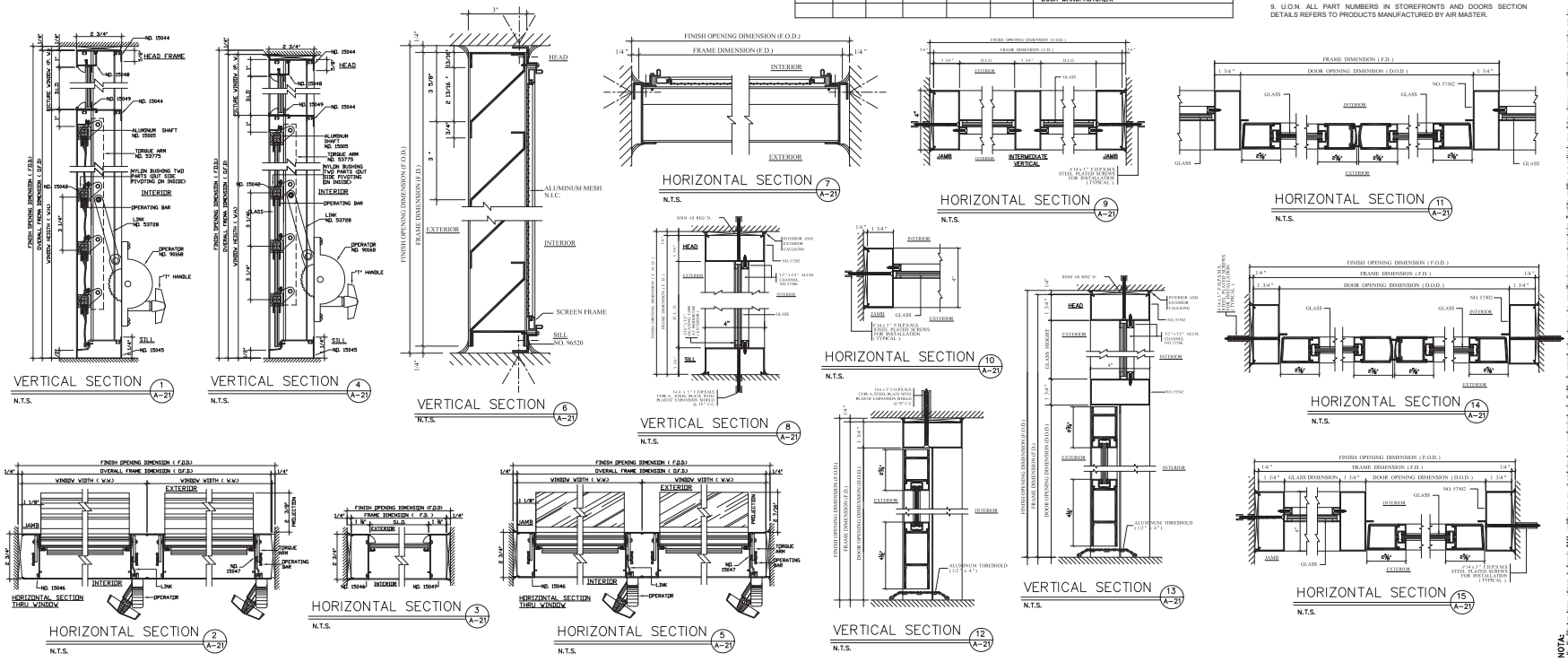
3/16" = 1'-0"

## STOREFRONT SCHEDULE

| MKD. | OPENING WIDTH | OPENING HEIGHT | UNITS | SILL HEIGHT | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| SF1 | 10'-4" | 7'-0" | 1 | 1'-0" | N/A | |
| SF2 | 10'-10" | 7'-0" | 1 | 1'-0" | N/A | |
| SF3 | – | – | 3 | 1'-0" | 9 | SEE SF3 FLOOR PLAN AND ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF4 | 7'-11" | 7'-0" | 1 | 1'-0" | N/A | |
| SF5 | 6'-4" | 7'-0" | 1 | 1'-0" | N/A | |
| SF6 | – | – | 3 | 1'-0" | 9 | SEE SF6 FLOOR PLAN AND ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF7 | 10'-8" | 7'-0" | 1 | 1'-0" | N/A | |
| SF8 | 6'-2" | 10'-0" | 2 | N/A | 10 | SEE SF8 ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| SF9 | 8'-7" | 8'-0" | 2 | 1'-6" | 11 | SEE SF9 ELEVATION, DOOR HARDWARE BALANCE BY DOOR MANUFACTURER. |
| | | | | | | |

**STOREFRONTS NOTES :**

1. FINAL MASONRY AND STOREFRONTS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM AND GLASS STOREFRONTS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER 1 3/4" FIN TUBE FRAMING SYSTEM.
3. ALUMINUM AND GLASS DOORS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS NARROW STILE COMMERCIAL DOOR.
4. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
5. ALL ALUMINUM AND GLASS DOORS SHALL BE PROVIDED WITH MANUFACTURER RECOMMENDED HARWARE.
6. ALL ALUMINUM FINISH SHALL BE CLEAR ANODIZED.
7. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
8. ALL GLASS IN DOORS AND AT LEVEL BELOW 18" ABOVE F.F.E. SHALL BE SAFETY GLASS.
9. U.O.N. ALL PART NUMBERS IN STOREFRONTS AND DOORS SECTION DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.




SANCHEZ ARANA ARQUITECTOS
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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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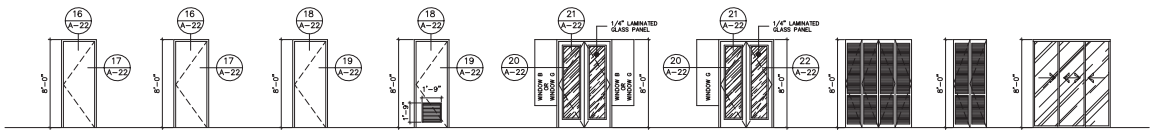
DRAWING TITLE
WINDOWS AND STOREFRONTS SCHEDULES SECTIONS AND NOTES

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED S.A.A. | DRAWING A-21 |
| DRAWN | |
| DATE 5/07/2019 | |

NOTA:
Yo, Ilis Sánchez Arana, ciémen de licencia 944, certifico que soy el profesional que preparó este proyecto y diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estando que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que no tengo conocimiento personal de ningún hecho que haga que dichos planos o especificaciones violen cualquier ley o reglamento aplicable o que afecte la salud o habitabilidad de las mismas que no sea de conocimiento público o por negligencia de mi parte. Finalmente, certifico que no tengo conocimiento personal de ningún hecho que en mi opinión profesional haga que dichos planos o especificaciones violen cualquier ley o reglamento aplicable o que afecte la salud o habitabilidad de las mismas que no sea de conocimiento público o por negligencia de mi parte por mí, mis agentes o empleados, o por otras personas con mi consentimiento, no hacen responsable de cualquier acción judicial y disciplinaria por la CGPA.




## DOORS ELEVATIONS

3/16" = 1'-0"

## GROUND FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 1 | C | 3'-2" | 8'-0" | 1 3/4" | 1 | |
| 2 | C | 3'-2" | 8'-0" | 1 3/4" | 2 | |
| 3 | D | 2'-8" | 8'-0" | 1 3/4" | 3 | |
| 4 | C | 3'-2" | 8'-0" | 1 3/4" | 2 | |
| 5 | D | 2'-8" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 6 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 7 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 8 | G | 6'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 9 | H | 3'-6⅝" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 10 | G | 6'-7" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 11 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 12 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 13 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 14 | I | 7'-10" | 8'-0" | – | – | |
| 15 | I | 6'-6" | 8'-0" | – | – | |
| | | | | | | |
| 16 | D | 3'-2" | 8'-0" | 1 3/4" | 7 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 17 | D | 3'-2" | 8'-0" | 1 3/4" | 7 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 18 | H | 3'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| | | | | | | |

## SECOND FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 19 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 20 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 21 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 22 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 23 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 24 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 25 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 26 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 27 | H | 3'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 28 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 29 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 30 | I | 9'-0" | 8'-0" | – | – | |
| 31 | I | 9'-0" | 8'-0" | – | – | |
| 32 | B | 3'-2" | 8'-0" | 1 3/8 | 6 | |
| 33 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 34 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 35 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 36 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 37 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 38 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 39 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 40 | I | 9'-0" | 8'-0" | – | – | |
| 41 | I | 9'-0" | 8'-0" | – | – | |
| 42 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 43 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 44 | F | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 45 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 46 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 47 | I | 7'-1" | 8'-0" | – | – | |
| 48 | H | 2'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 49 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 50 | G | 5'-8" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 51 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 52 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 53 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |

## THIRD FLOOR DOOR SCHEDULE

| MKD. | TYPE | OPENING WIDTH | OPENING HEIGHT | DOOR THICKNESS | HARDWARE | REMARKS |
|---|---|---|---|---|---|---|
| 54 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 55 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| 56 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |
| 57 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 58 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 59 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 60 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 61 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 62 | H | 3'-0" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 63 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 64 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 65 | I | 9'-0" | 8'-0" | – | – | |
| 66 | I | 9'-0" | 8'-0" | – | – | |
| 67 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 68 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 69 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 70 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 71 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 72 | G | 5'-5" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 73 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 74 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 75 | I | 9'-0" | 8'-0" | – | – | |
| 76 | I | 9'-0" | 8'-0" | – | – | |
| 77 | B | 3'-2" | 8'-0" | 1 3/8" | 6 | |
| 78 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| 79 | F | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 80 | A | 3'-2" | 8'-0" | 1 3/4" | 4 | PROVIDE MARMOLITE THRESHOLD 6" W X 38" L |
| 81 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 82 | I | 7'-1" | 8'-0" | – | – | |
| 83 | H | 2'-6" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 84 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 85 | G | 5'-8" | 8'-0" | – | – | HARDWARE BY DOOR MANUFACTURER |
| 86 | B | 2'-8" | 8'-0" | 1 3/8" | 6 | |
| 87 | B | 2'-3" | 8'-0" | 1 3/8" | 6 | |
| 88 | E | 5'-0" | 8'-0" | 1 3/4" | 5 | HINGES AND FLUSH BOLTS BY DOOR MANUFACTURER |
| | | | | | | |
| 89 | C | 3'-2" | 7'-11" | 1 3/4" | 8 | |
| 90 | D | 3'-2" | 8'-0" | 1 3/4" | 3 | |
| | | | | | | |

**HARDWARE SCHEDULE :**

**Set # 1**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 475 | 26D | Sargent |

**Set # 2**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |

**Set # 3**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G37KB | 26D | Sargent |

**Set # 4**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | door viewer 975 | 26D | Trimco |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 5**

| | | | |
|---|---|---|---|
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 474 | 26D | Sargent |
| 1 each | double lever pull 65U94KB | 26D | Sargent |

**Set # 6**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4" X 4" | US26D | Hager |
| 1 each | lock set 65U65KB | 26D | Sargent |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 7**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65U65KB | 26D | Sargent |
| 1 each | wall stop 432W | white | Rockwood |

**Set # 8**

| | | | |
|---|---|---|---|
| 1 1/2 pairs each | hinge BB 1279 – 4 1/2" X 4 1/2" | US26D | Hager |
| 1 each | lock set 65G05KB | 26D | Sargent |
| 1 each | deadlock 474 | 26D | Sargent |

**Set # 9**

| | | | |
|---|---|---|---|
| 1 each | mortise lock 8222 | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**Set # 10**

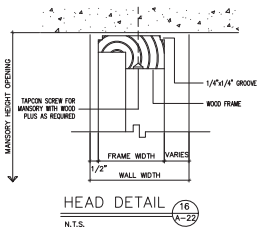
| | | | |
|---|---|---|---|
| 1 each | mortise lock 82711ZVDCTRB | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**Set # 11**

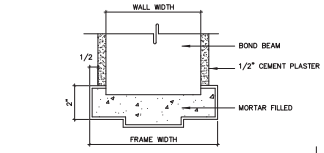
| | | | |
|---|---|---|---|
| 1 each | mortise lock 8206TRB | 26D | Sargent |
| 1 each | door closer 1131RU | EN | Sargent |

**DOOR NOTES :**

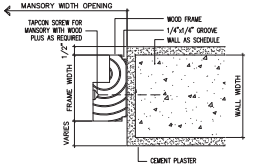
1. FINAL MASONRY AND DOORS DIMENSIONS SHALL BE FIELD VERIFIED.
2. ALUMINUM AND GLASS DOORS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER ALUMINUM AND GLASS CONTINENTAL SERIES FULL GLASS ENTRANCE DOOR FOURTH GENERATION. GLASS : 1/4" THICK LAMINATED GLASS
3. HOLLOW METAL DOORS SHALL BE EQUALS OR APROVED EQUALS AS STEELCRAFT L18 (FLUSH, 18 GAGE, 1 3/4" THICK).
4. HOLLOW METAL DOORS DOBLE RABBET STEEL FRAME SHALL BE EQUALS OR APROVED EQUALS AS STEELCRAFT F16, JAMB DEPTH 4 3/4".
5. SLIDING CLOSET DOORS WITH MIRROS SHALL BE EQUALS OR APROVED EQUALS AS AIR MASTER BY-PASS SLIDING CLOSET DOOR WITH MIRROR.
6. SUBMIT SHOP DRAWINGS FOR ARCHITECT APPROVAL.
7. ALL ALUMINUM SHALL HAVE POLYURETHANE POWDER BAKED FINISH; COLOR WHITE.
8. ALL HOLLOW METAL DOORS SHALL HAVE ENAMEL FINISH; COLORS TO BE SELECTED BY ARCH.
9. ALL WOOD DOORS SHALL HAVE WOOD VENEER ON ALL VISIBLE SURFACES.
10. GLASS THICKNESS SHALL BE MINIMUM REQUIRED TO WITHSTAND WIND LOADS.
11. ALL GLASS IN DOORS AND AT LEVEL BELOW 18" ABOVE F.F.E. SHALL BE SAFETY GLASS.
12. DOOR SCHEDULE DOES NOT INDICATE HAND FOR HARWARE. COORDINATE HARWARE HAND AS PER PLAN LAYOUTS.
13. U.O.N. ALL PART NUMBERS IN DOORS SECTIONS DETAILS REFERS TO PRODUCTS MANUFACTURED BY AIR MASTER.



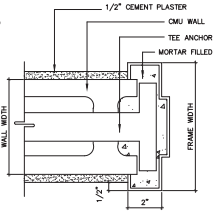

HEAD DETAIL 16 A-22
N.T.S.



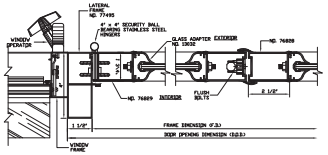

HEAD DETAIL 18 A-22
N.T.S.



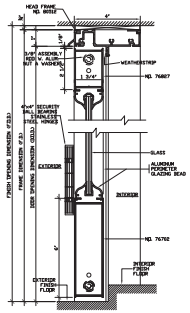

JAMB DETAIL 17 A-22
N.T.S.



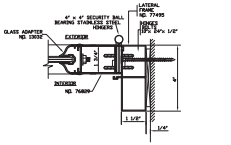

JAMB DETAIL 19 A-22
N.T.S.




HORIZONTAL SECTION 20 A-22
N.T.S.




VERTICAL SECTION 21 A-22
N.T.S.




HORIZONTAL SECTION 22 A-22
N.T.S.

NOTA:
Yo, la Sánchez Arana, número de licencia 8441, certifico que soy el profesional que preparó esta planta y las especificaciones complementarias. También certifico que estando que dichas planos y especificaciones cumplen con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que estando que dichas planos y especificaciones cumplen con las disposiciones del Reglamento para Regular la Práctica de la Profesión de Arquitectura y la Arquitectura Paisajista en Puerto Rico. Entiendo que cualquier alteración a estos planos y especificaciones o cualquier uso de los mismos sin mi consentimiento o participación profesional, o cualquier falsificación de los hechos que se haya producido por desconocimiento o por negligencia en mi parte por mi, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ODPA.

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787-235-3670 lilisanchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
DOORS SCHEDULE,SECTIONS HARDWARE SCHEDULE AND NOTES

| | |
|---|---|
| PROJECT | SHEET NO. OF |
| DESIGNED S.A.A. | DRAWING A-22 |
| DRAWN | |
| DATE 5/07/2019 | |

## GROUND FLOOR FINISH SCHEDULE :

**AREAS MKD. 100 (COMMERCIAL SPACE) AND 103 (JANITOR)**

FLOOR : BROOM CEMENT

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 101 (BATHROOM) AND 102 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : WALL CERAMIC TILE UP TO 5'-0" A.F.F., REMAINING WALL UP TO CEILING TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 1-A**

**AREAS MKD. 104 (LIVING / DINNING), 106 (LAUNDRY), 107 (CLO.) 109 (CORRIDOR AND CLO.), 111 (BEDROOM), 112 (BEDROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 105 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 108 (BALCONY)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 110 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

SHOWER FLOOR : ANTISLIP MOSAIC TILE 2" X 2"

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-14.

CEILING : TO BE PAINTED.

**AREAS MKD. 113 (ENTRANCE TO APARTMENTS), 114 (LOBBY), 115 (CLO.) 116 (JANITOR)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 117 (STAIR)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

BULLNOSE : ANTISLIP CERAMIC BULLNOSE

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 118 (CISTERN PUMPS ROOM) AND 119 (METER BANK CLO.)**

FLOOR : POLISHED CEMENT

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 120 (GARDEN PLAZA)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 12" X 24" X 10 MM (INTEGRAL)

WALLS : TO BE PAINTED.

**AREA MKD. 121 (CONCRETE PAVED PATIO)**

FLOOR : TROWELED CONCRETE, PATTERN OF JOINTS TO BE INDICATED BY THE ARCHITECT.

WALLS : TO BE PAINTED.

**AREAS MKD. 122 (ENTRANCE) AND 123 (ENTRANCE)**

FLOOR : ANTISLIP CERAMIC FLOOR TILE 12" X 24" X 10 MM (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

## SECOND FLOOR FINISH SCHEDULE :

**AREAS MKD. 201 (LOBBY), 202 (CLO.), 203 (CLO.) AND 204 (CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 2-A**

**AREAS MKD. 205 (CORRIDOR), 207 (LIVING / DINNING), 209 (BEDROOM) 210 (BEDROOM), 211 (BEDROOM), 212 (WALK-IN CLO.), 214 (LAUNDRY) AND 216 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 206 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 208 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 213 (BATHROOM) AND 215 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 2-B**

**AREAS MKD. 217 (CORRIDOR), 219 (LIVING / DINNING), 221 (BEDROOM) 222 (BEDROOM), 223 (LAUNDRY) AND 225 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 218 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 220 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 224 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 2-C**

**AREAS MKD. 226 (LIVING / DINNING), 229 (CORRIDOR), 230 (BEDROOM) 231 (BEDROOM), 232 (WALK-IN CLO.), 233 (LAUNDRY) AND 235 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 228 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-17.

CEILING : TO BE PAINTED.

**AREA MKD. 227 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 234 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

## THIRD FLOOR FINISH SCHEDULE :

**AREAS MKD. 301 (LOBBY), 302 (CLO.), 303 (CLO.) AND 304 (CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**APARTMENT 3-A**

**AREAS MKD. 305 (CORRIDOR), 307 (LIVING / DINNING), 309 (BEDROOM) 310 (BEDROOM), 311 (BEDROOM), 312 (WALK-IN CLO.), 314 (LAUNDRY) AND 216 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 306 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 308 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREAS MKD. 313 (BATHROOM) AND 315 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOMS ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 3-B**

**AREAS MKD. 317 (CORRIDOR), 319 (LIVING / DINNING), 321 (BEDROOM) 322 (BEDROOM), 323 (LAUNDRY) AND 325 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 318 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-16.

CEILING : TO BE PAINTED.

**AREA MKD. 320 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 324 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

**APARTMENT 3-C**

**AREAS MKD. 326 (LIVING / DINNING), 329 (CORRIDOR), 330 (BEDROOM) 331 (BEDROOM), 332 (WALK-IN CLO.), 333 (LAUNDRY) AND 335 (LINEN CLO.)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 328 (KITCHEN)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE KITCHEN ELEVATIONS AT SHEET A-17.

CEILING : TO BE PAINTED.

**AREA MKD. 327 (BALCONY)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 334 (BATHROOM)**

FLOOR : CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

WALLS : PAINT AND CERAMIC WALL TILE, SEE BATHROOM ELEVATIONS AT SHEET A-15.

CEILING : TO BE PAINTED.

## ROOF FINISH SCHEDULE :

**AREA MKD. 401 (GAZEBO)**

FLOOR : VULKEN 350NF (UNDER TILE WATERPROOFING MEMBRANE) AND ANTISLIP CERAMIC FLOOR TILE 18" X 18" X 10 MM (INTEGRAL)

BASE : ANTISLIP CERAMIC TILE BASE, 4" HEIGHT (INTEGRAL)

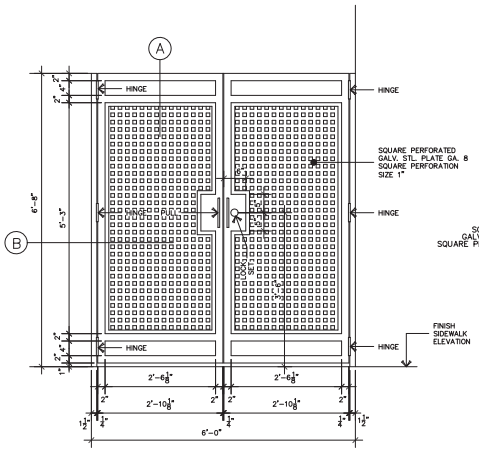
WALLS : TO BE PAINTED.

CEILING : TO BE PAINTED.

**AREA MKD. 402 (ROOF)**

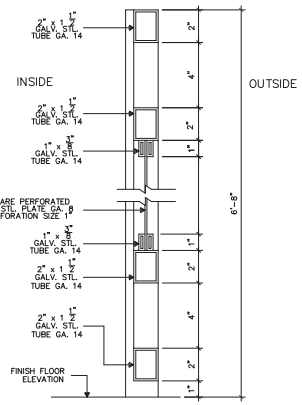
FLOOR : VULKEN 350NF (PEDESTRIAN AND WATERPROOFING SYSTEM BY TREMCO)

PARAPETS : VULKEN 350NF



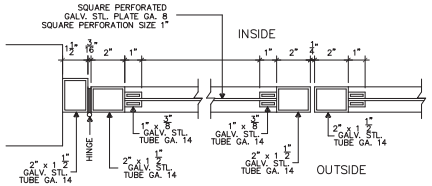

G-1 ELEVATION

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




G-1 SECTION A

N.T.S.




G-1 SECTION B

N.T.S.

**NOTA:**
Yo, Ilis Sánchez Arana, ojiplano de licencia #441, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento conjunto de Permisos y/o Código de Construcción vigente y de las Normas, cartas circulares y Consecuentes Pública en un periódico. Asimismo, que cualquier desviación de estos planos y especificaciones será informada, por escrito, a la Administración de Reglamentos y Permisos y/o a la persona o entidad a la cual se le expida el permiso de construcción, y que dicha desviación será sometida para su aprobación.

SANCHEZ ARANA ARQUITECTOS

J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3870 ilissonchezarana@yahoo.com 787-390-3788

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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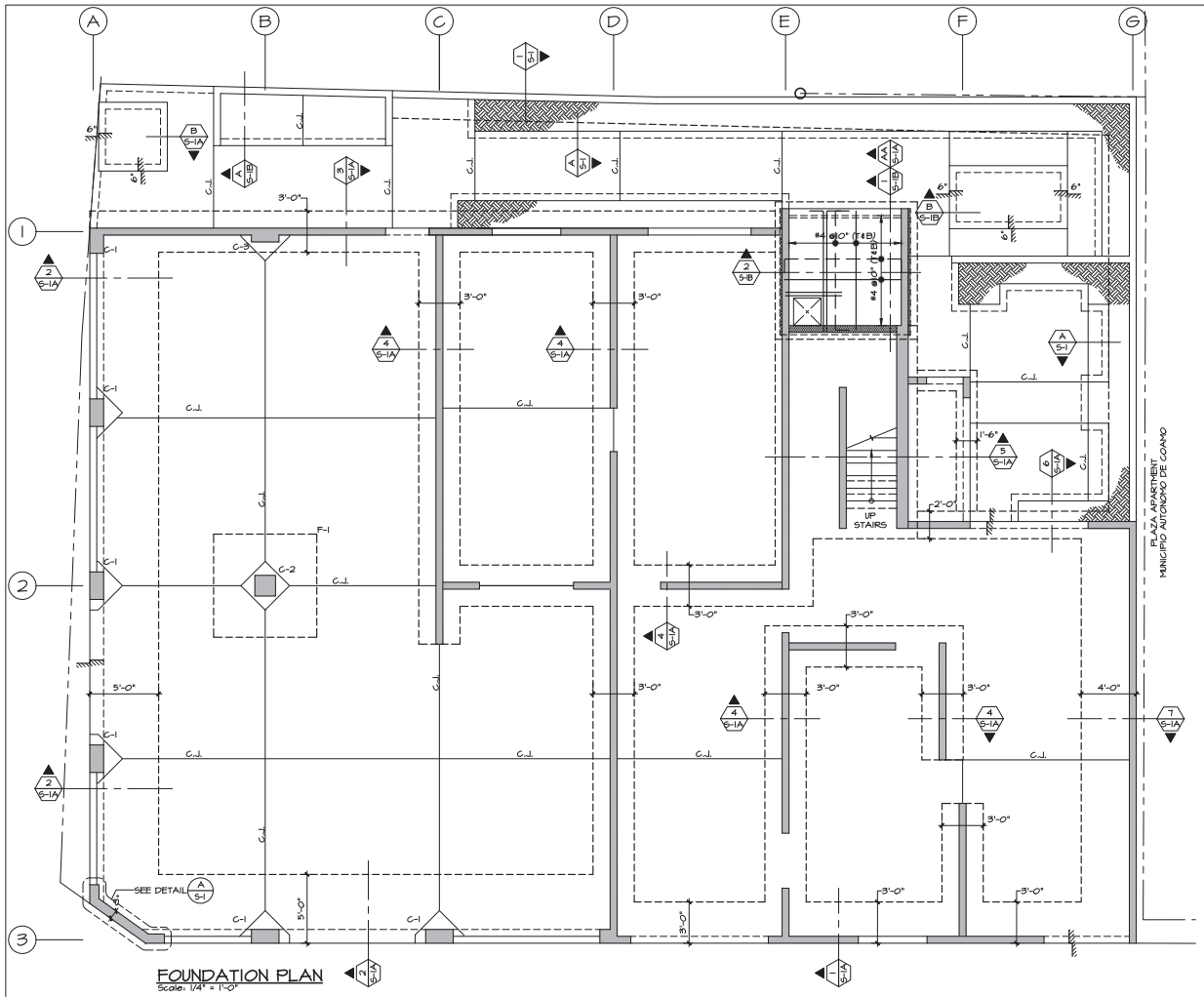
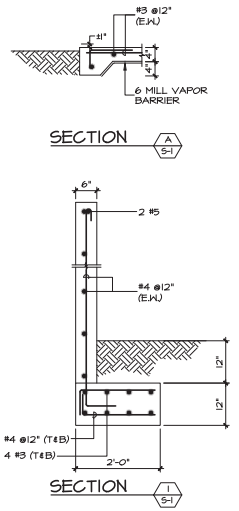
DRAWING TITLE
FINISH SCHEDULE AND GATE G-1 ELEVATION AND SECTIONS

| PROJECT | SHEET NO. OF |
|---|---|
| DESIGNED S.A.A. | DRAWING A-23 |
| DRAWN | |
| DATE 5/07/2019 | |




## FOUNDATION PLAN

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




## STRUCTURAL NOTES

### A. Special Notes

1. Contractor to coordinate all dimensions and details with architectural and mechanical drawings. All conflicts or discrepancies are to be called to the attention of Architect and/or ASD Engineer in timely manner so as to avoid work disruption.
2. Shop Drawings shall not be reproduced, in whole or in part, of drawings prepared by ASD but shall be prepared entirely by manufacturer, fabricator or installer based on information within these drawings. All shop drawings shall be submitted by General Contractor to ASD Engineer.
3. All test for construction materials must be supervised by certified testing laboratory and the result shall be submitted by General Contractor to ASD Engineer.

### B. Foundations

1. Soil Pressure
   a. 4,000 psf as per soil report prepared for this project by Victor E. Rivera Associates (14-4458) dated May 14,2019. This report forms integral part of these drawings and its recommendations shall be strictly followed.

### C. Reinforced Concrete & Reinforced steel

1. All Concrete shall develop a 28 day compressive strength of 3,000 psi.
2. Maximum water/cement ratio (W/C) shall not exceed .65.
3. Nominal maximum size of coarse aggregate shall be not larger than:
   a. $\frac{1}{5}$ the narrowest dimensions between sides of forms nor,
   b. $\frac{3}{4}$ the minimum clear spacing between individual reinforcing bars or wires, bundles of bars, or prestressing tendons or ducts.
4. All reinforcing steel bars shall be new billet deformed high strength grade steel conforming to ASTM A-615 latest edition Fy=60,000 psi), except (1) the maximum yield strength shall be 78,000 psi and (2) the tensile strength shall be not less than 1.25 the actual yield strength.
5. Steel protection shall be as follows:
   a) Footings
      I. Side and Bottom 3"
      II. Top 2"
   b) Walls
      I. Pour against earth 3"
      II. Exposed to earth or weather
         ¾" up to #5
         2" for #6 and larger
      III. Not exposed to earth or weather
         ¾" up to #11
         1½" for #14 and larger
   c) Slabs and joists
      ¾" up to #11
      1½" for #14 and larger
   d) Beams and Columns 1½"
6. Dowels shall be same size and number as wall or column vertical reinforcement embedded 42 diameters into footing and 48 diameters above it. (Unless Noted)
7. Lap all splices in walls and foundation wall 52 diameters; in beams use tension splice; all horizontal bars in beams, walls and foundation walls shall be bent at least 2'-0" beyond corners. (Unless Noted)
8. Reinforce concrete walls as follows (Unless Noted)
   6" Walls #4 @12" (E.W.)
   8" Walls #4 @8" (E.W.)
9. Provide 2 #5 vertical reinforcement, at each wall end (Unless Noted)
10. All openings in concrete walls and slabs shall be reinforced with 2 #5 bars placed 2" from the face and extending 2'-0" beyond corners (Unless Noted).
11. All slab on grade shall be 4" thick reinforced with #3 @12" (E.W.).
12. All one way slabs shall have temp. reinf. As follows: 0.18% of sectional area (including integral topping). t=5" use #3 @12", t=6" use #3 @10" and t=7" use #3 @8".

### D. Masonry Walls

1. Concrete masonry units shall be Type N-1 with compressive strength of 1,350 psi and shall meet the requirements of ASTM C140-75.
2. Mortar shall be Type M and shall meet the requirements of ASTM C270-87a.
3. Grout shall be meet the requirements of ASTM C476-83 with a slump of 9" with a compressive strength of 2,000 psi.
4. All cells with vertical reinforcement shall be filled with grout.
5. Horizontal reinforcement shall be Truss Type.
6. Unless otherwise noted reinforce masonry walls as follows:

| CMU Thick. | Vertical Reinf. | Horizontal Reinf. |
|---|---|---|
| 6" | #5 @16" or #4 @32" | Dur-O-Wal STD Every Course |
| 8" | #5 @32" or #6 @48" | Dur-O-Wal Extra Heavy Every Course |

7. All wall corners shall be masonry bonded.

### E. Design Loads

1. Live Loads
   a) Roof 20 psf
   b) Stairs 100 psf
   c) Housing 40 psf
2. Wind Loads
   a) As per ANSI/ASCE 7-2016
3. Seismic Loads
   a) As per IBC-2018

### F. Applicable Codes

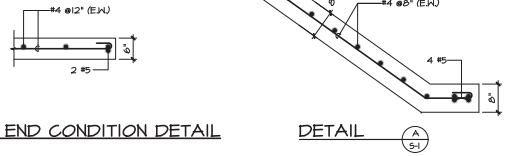
1. ACI 318-2018
2. IBC-2018
3. ANSI/ASCE 7-2016

## LEGEND:

- CONC. WALL OR COL. ABOVE & BELOW
- CONC. WALL OR COL. BELOW ONLY
- CONC. WALL OR COL. ABOVE ONLY
- MASONRY WALL CONCRETE TO BE CASTED AFTER SLAB ABOVE BE CASTED AND CURRED

## ABBREVIATIONS:

| | | | |
|---|---|---|---|
| (B) | BOTTOM REINFORCEMENT | CONT. | CONTINUOS |
| B.F.E. | BOTTOM FOOTING ELEVATION | E.B.P. | ELASTOMERIC BEARING PAD |
| C-1 | COLUMN NUMBER | E.F. | EACH. FACE |
| C.J. | CONSTRUCTION JOINT | E.J. | EXPANSION JOINT |
| CL. | CLEAR | E.W. | EACH WAY |
| C.S.C.J. | CONTROL SAW CUT JOINT | F-1 | FOOTING NUMBER |
| F.F. | FAR FACE | (TEMP.) | TEMPERATURE REINFORCEMENT |
| F.F.E. | FINISH FLOOR ELEVATION | TYP. | TYPICAL |
| H | STANDARD HOOK | P.E.M. | PREMOLDED EXPANSION MATERIAL |
| N.F. | NEAR FACE | S.O.F. | STEP ON FOOTING |
| (T) | TOP REINFORCEMENT | T = 4" | SLAB THICKNESS |




WALL END CONDITION DETAIL

DETAIL A S-1


ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
CORTES CATALINA PARK, VIA CARIBE 305 PONCIANA P.R.
( ENTRADA DE LOMAS TORRE PUR )
DIRECCION DE ENVIO POSTAL - HC01 BOX 6556 - COTTO LAUREL P.R. 00780
TEL. 787-706-1070 - FAX. 787-706-1280 - MOVIL: 396-6138
EMAIL : ASDSTRUCTURES@HOTMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019



S.A. SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT # 1130
RIO PIEDRAS, P.R. 00920
TEL.(787)782-4436, 782-4437


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC #9435
PUERTO RICO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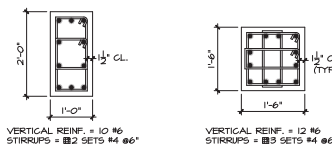
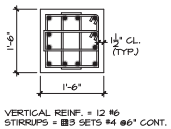
**DRAWING TITLE**
FOUNDATION PLAN, STRUCTURAL NOTES, SECTIONS & DETAILS

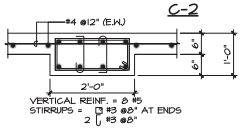
| | |
|---|---|
| PROJECT | SHEET NO. 00 OF 00 |
| DESIGNED | DRAWING S-1 |
| DRAWN K. YAMBO | |
| DATE 05-28-2019 | |




C-1

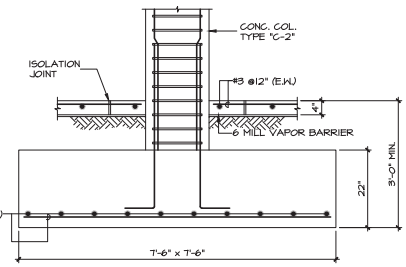



C-2

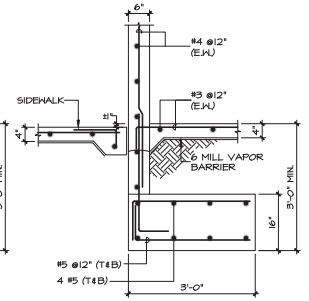



C-3

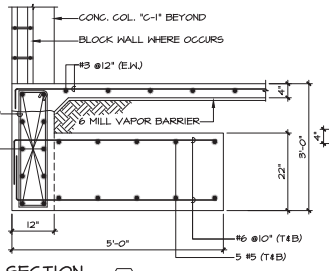
CONCRETE COLUMNS DETAILS



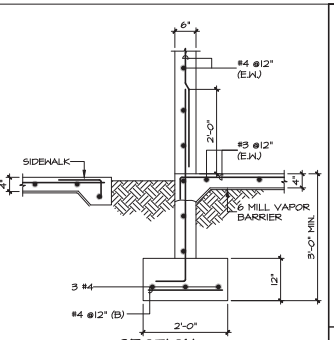

TYPICAL SQUARE FOOTING DETAIL MK'D "F-1"




SECTION 1 S-1A

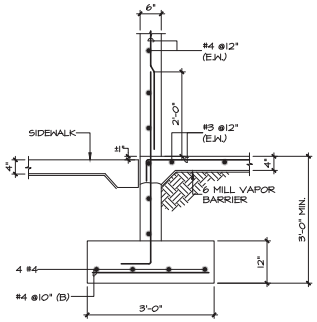



SECTION 2 S-1A

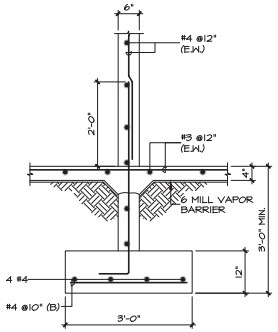



SECTION 9 S-1A

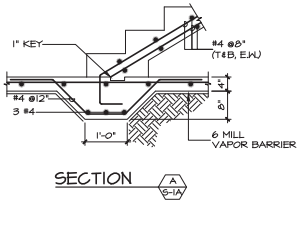
GAZEBO ROOF LEVEL



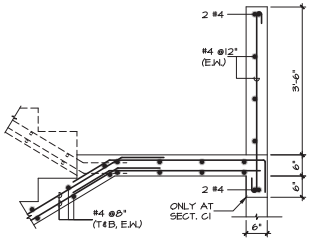

SECTION 3 S-1A



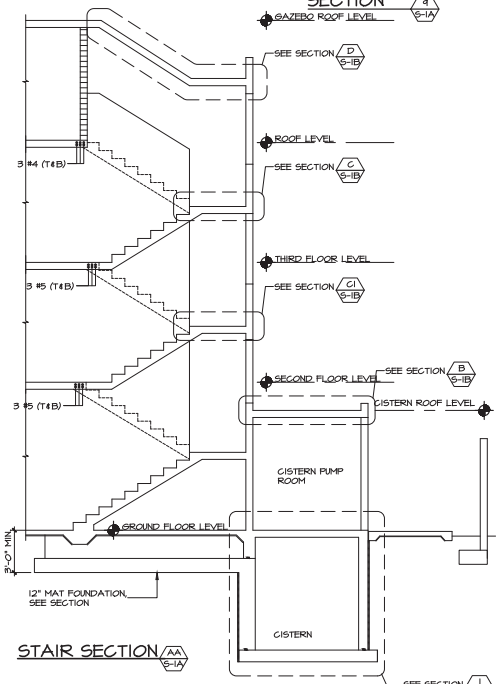

SECTION 4 S-1A

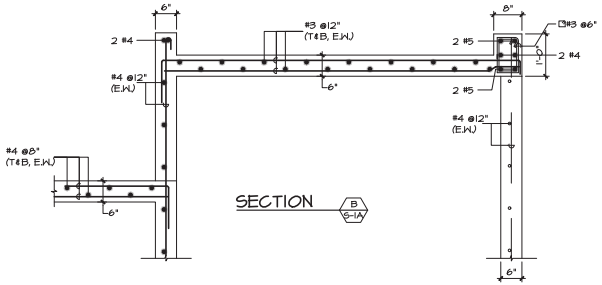



SECTION A S-1A

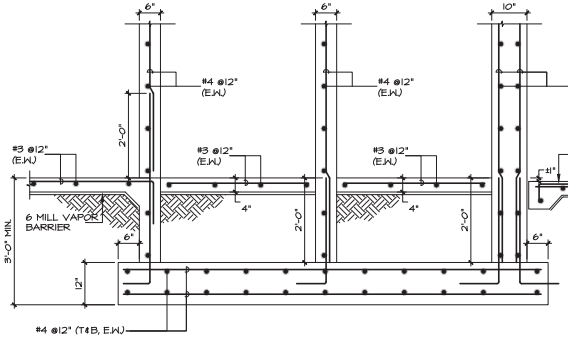



SECTION C S-1A C1 S-1A

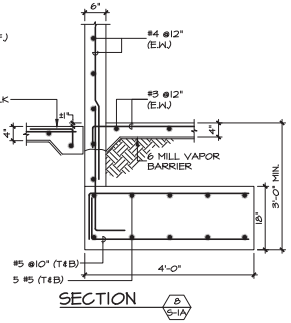


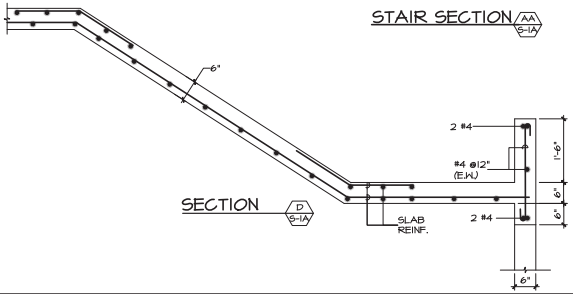

SECTION B S-1A




SECTION 5 S-1A




SECTION 8 S-1A




SECTION D S-1A

STAIR SECTION AA S-1A


ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CAGUAS: #1004, URB. CAGUAS SUR, CAGUAS P.R.
( DISTRITO DE LLAMAR SIEMPRE POR )
DIRECCIÓN DE ENVÍO POSTAL - PMB 1255 #5 - AUTOPISTA P.R. #8838
TEL. 787-704-1870 - FAX. 787-704-1280 - MOVIL: 396-4138
EMAIL - ASDSTRUCTURAL@GMAIL.NET
PROJECT: 19-19 DATE: 04-25-2019


SANCHEZ ARANA ARQUITECTOS

AVE. F.D. ROOSEVELT #1130
RIO PIEDRAS, P.R. 00920
TELS (787) 782-4436, 782-4437

REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ INGENIERO LICENCIADO LIC.#9435 PUERTO RICO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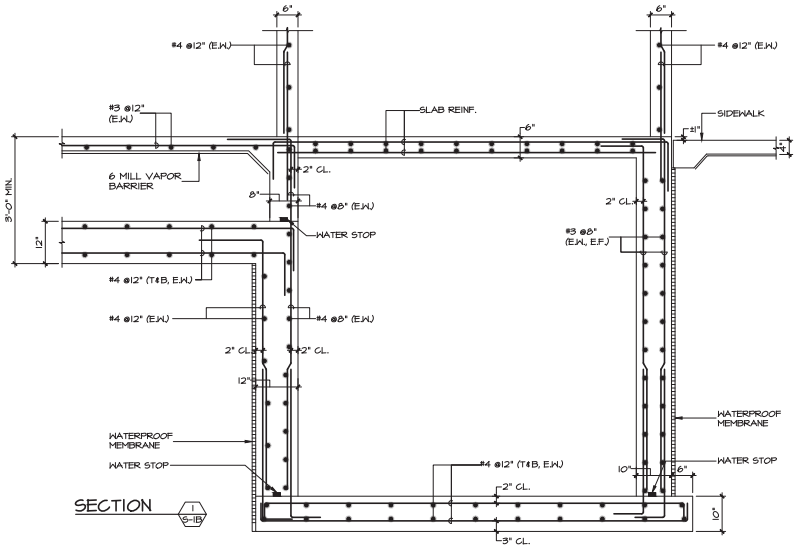
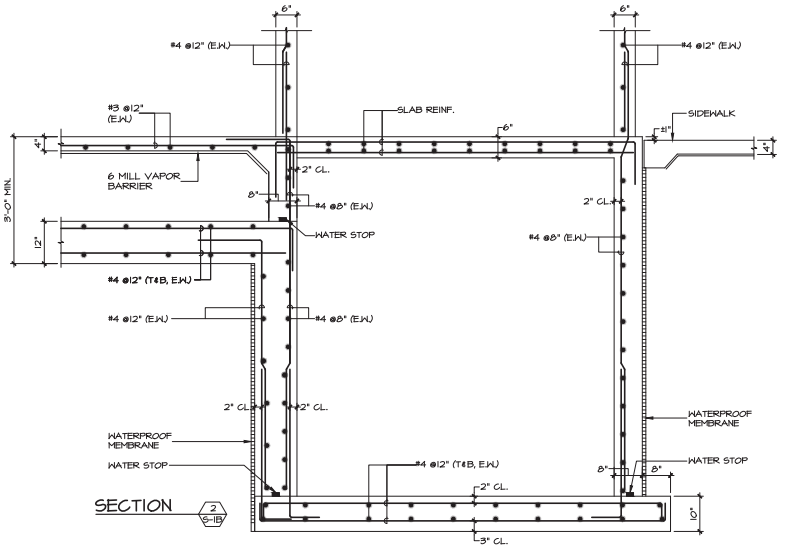
DRAWING TITLE
SECTIONS & DETAILS

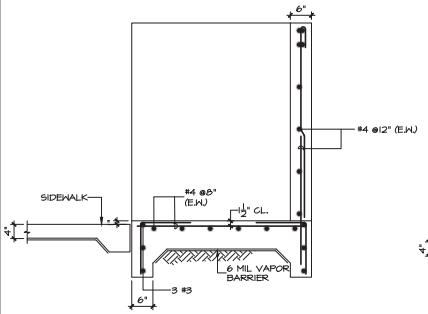
| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-1A |
| DATE 04-11-2019 | |



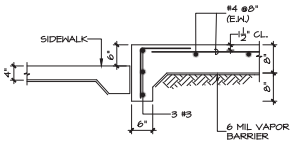

SECTION 1 S-1B



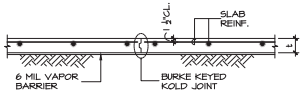

SECTION 2 S-1B



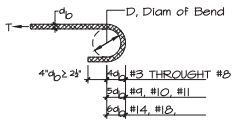

SECTION A S-1B



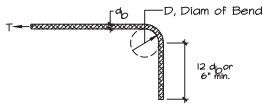

SECTION B S-1B




SLAB CONSTRUCTION JOINT DETAIL (C.J.)




180° HOOK

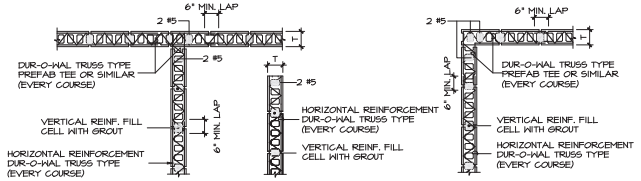



90° HOOK

MIN. DIAM. OF BEND

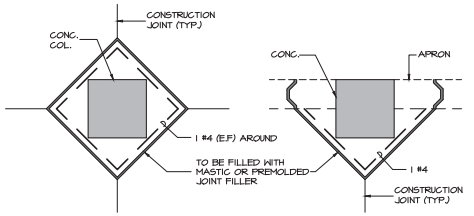
D= 6$d_b$ FOR #3 TO #8
D= 8$d_b$ FOR #9 TO #11
D= 10$d_b$ FOR #14, #18

TYPICAL DEVELOPMENT OF STANDARD HOOKS IN TENSION*
(NORMAL CONCRETE)




AT INTERSECTION AT END WALL AT CORNER

TYPICAL CONC. BLOCK WALL REINFORCEMENT DETAILS




TYPICAL ISOLATION JOINT DETAIL


ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CAGUAS: AVDA. FDO. CABRAL 255 PONDIAN P.R.
( ENTRADA POR CALLE RAMON POTO )
URBANIZACION LOS SOLARES TORRE 1 - SUITE 1205 RD - GUYNABO P.R. 00969
TEL. 787-704-1070 - FAX. 787-704-1080 - MOVIL: 304-6138
EMAIL : ASDSTRUCTURES@GMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019



SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT # 1130
RIO PIEDRAS, P.R. 00920
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REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ INGENIERO LICENCIADO LIC.#9435 PUERTO RICO


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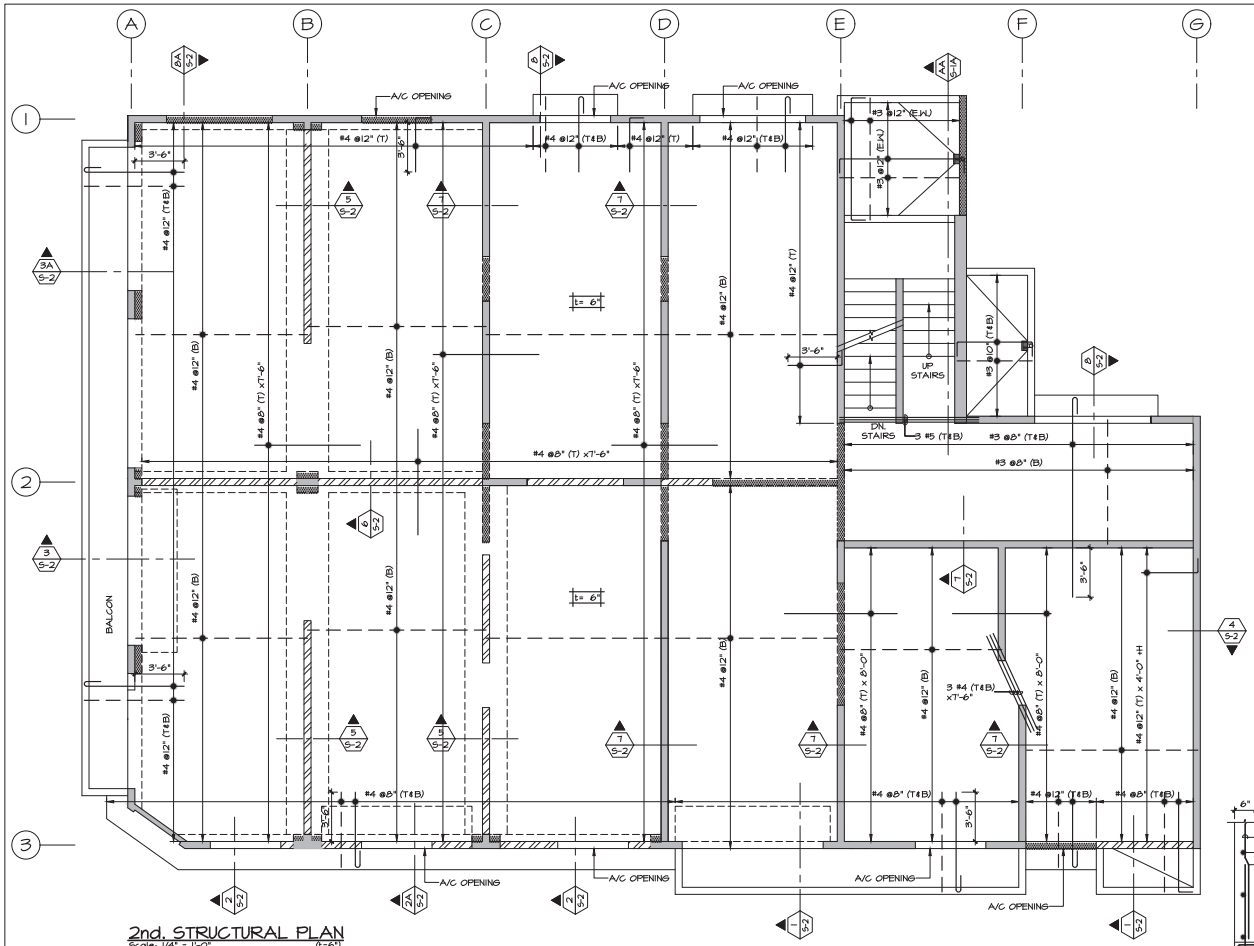
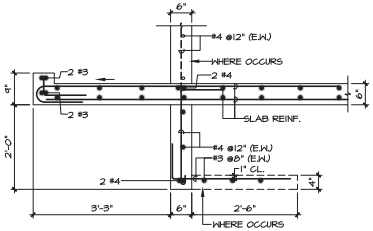
DRAWING TITLE
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-1B |
| DATE 04-11-2019 | |

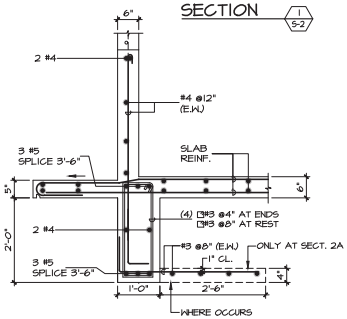



## 2nd. STRUCTURAL PLAN

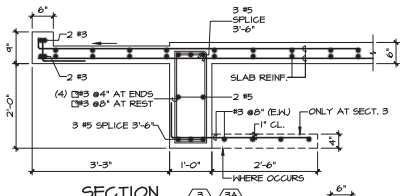
Scale: 1/4" = 1'-0" (t=6")



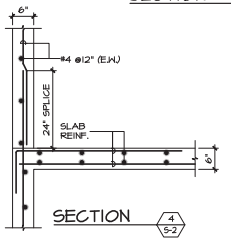

SECTION 1 5-2



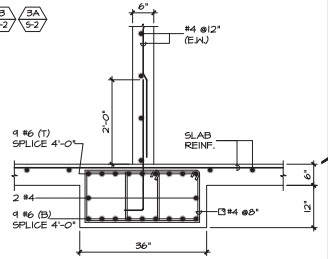

SECTION 2 5-2 2A 5-2



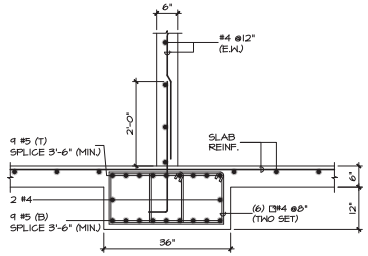

SECTION 3 3A 5-2



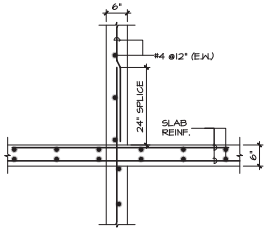

SECTION 4 5-2



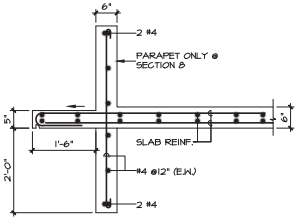

SECTION 5 5-2




SECTION 6 5-2




SECTION 7 5-2




SECTION 8 8A 5-2


S·A·SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT # 1136
RIO PIEDRAS, P.R. 00926
TELS (787) 282-4436, 782-4427


| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC #9435
PUERTO RICO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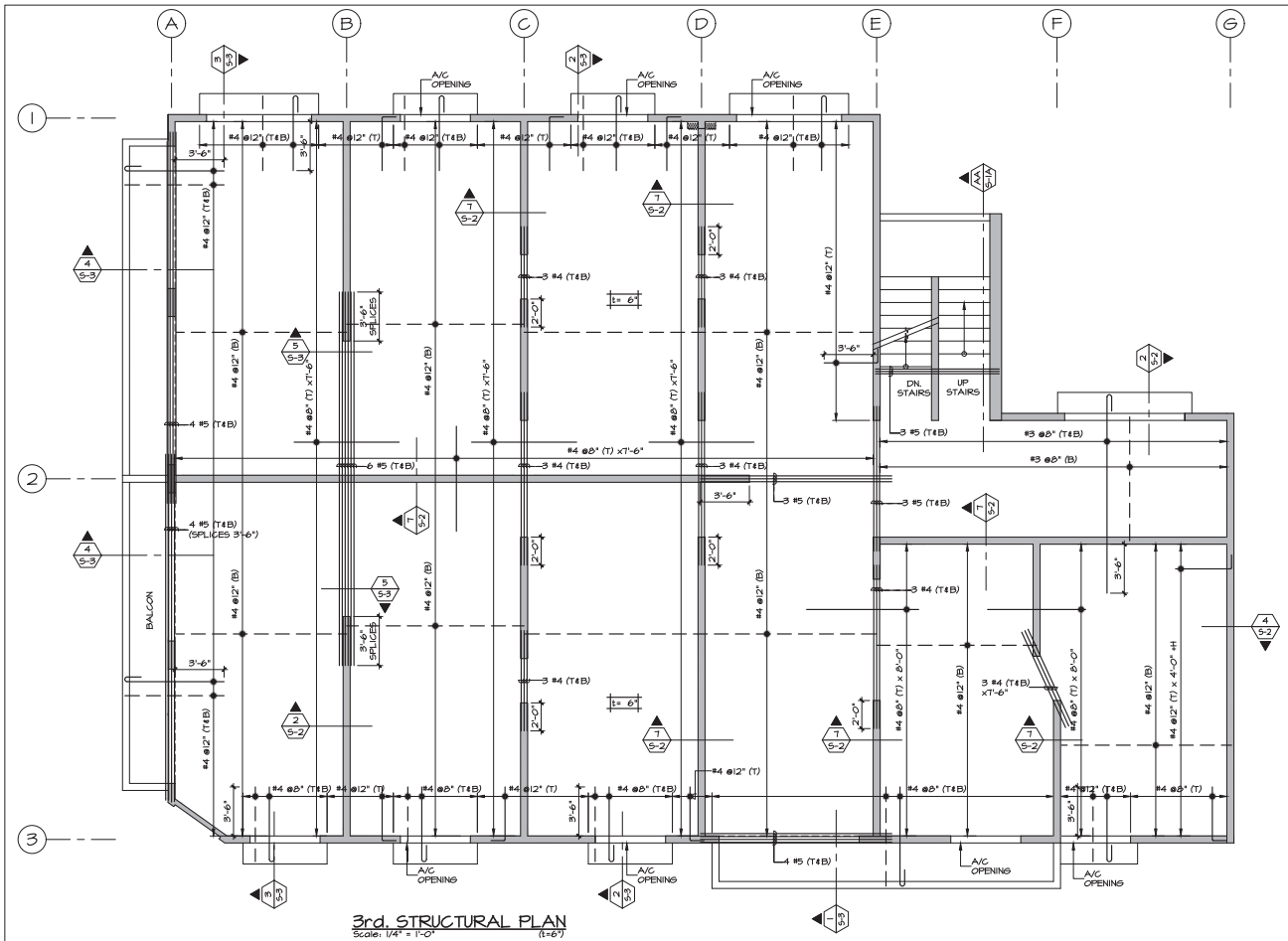
**DRAWING TITLE**
2nd. STRUCTURAL PLAN

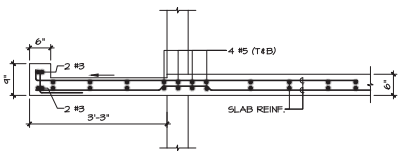
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-2 |
| DATE 04-11-2019 | |

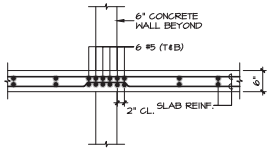

ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER



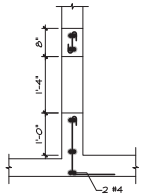

3rd. STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=6")



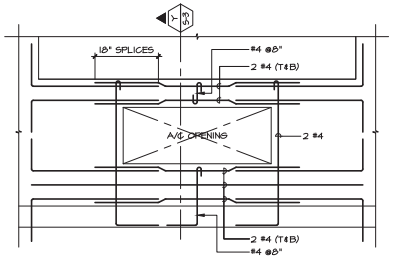

SECTION 4/S-3



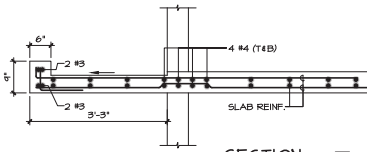

SECTION 4/S-3



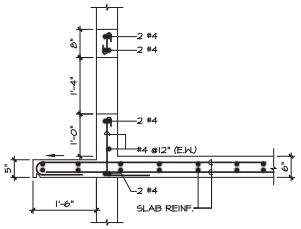

SECTION Y/S-3



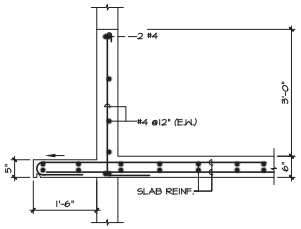

A/C WALL OPENING DETAIL A/S-3




SECTION 1/S-3




SECTION 2/S-3




SECTION 3/S-3


SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT #1130
RIO PIEDRAS, P.R. 00920
TEL.(809)782-4436, 782-4437


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ INGENIERO LICENCIADO LIC.#9435 PUERTO RICO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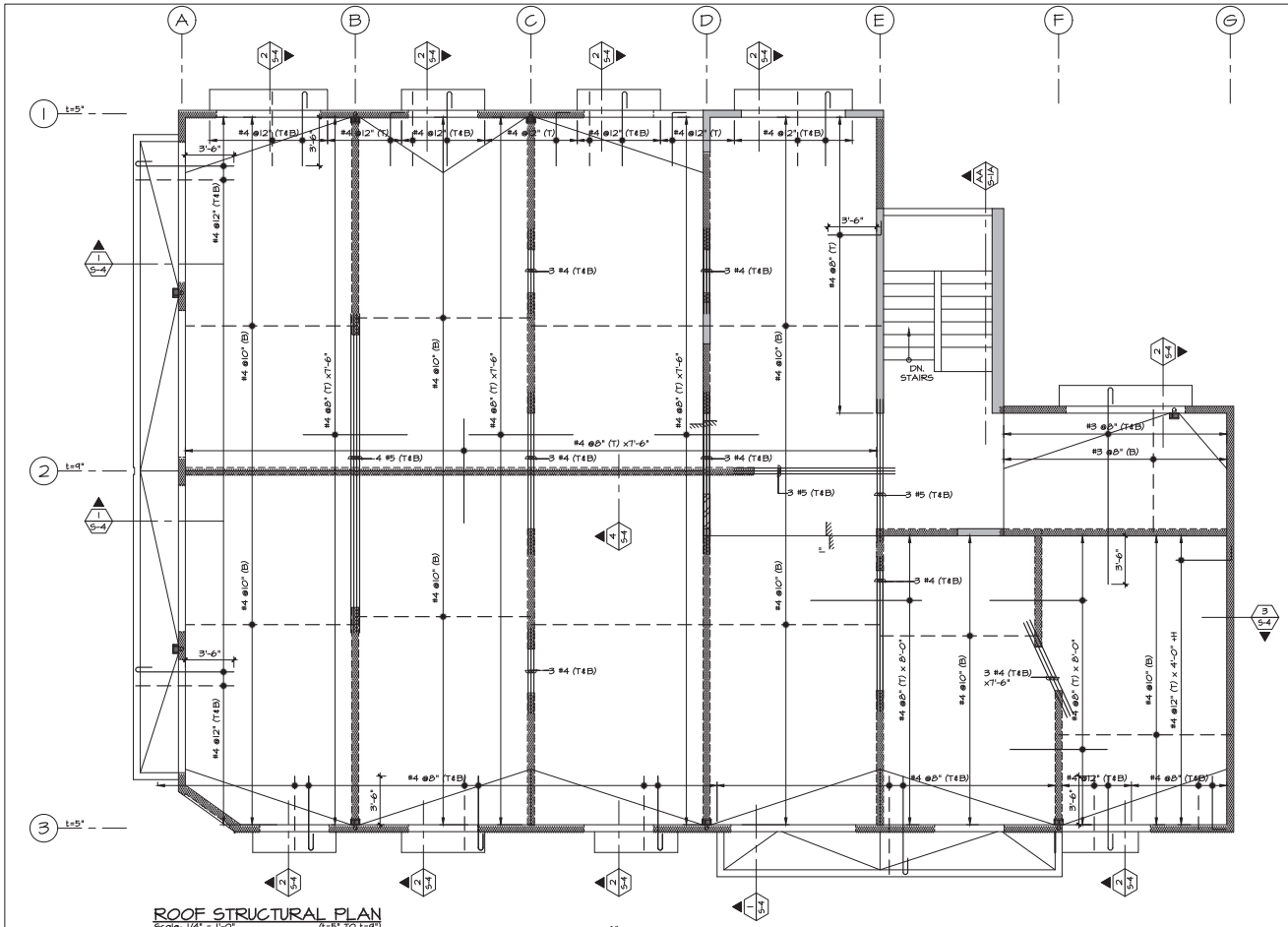
**DRAWING TITLE**
3rd. STRUCTURAL PLAN

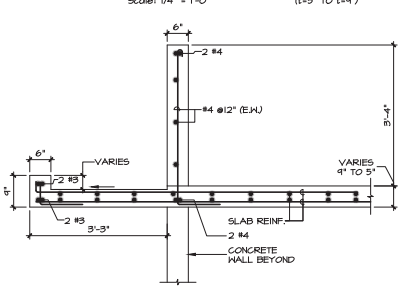
SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-3 |
| DATE 05-28-2019 | |

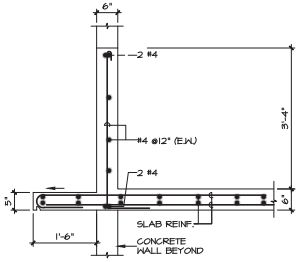

ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER



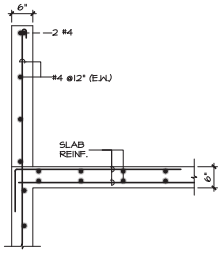
ROOF STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=5" TO t=9")



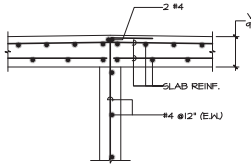
SECTION 1/S-4



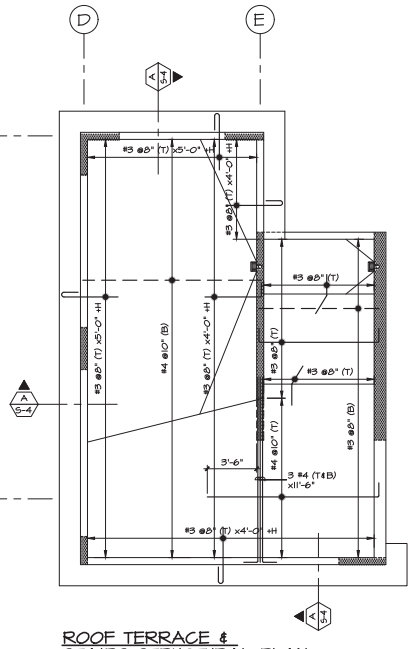
SECTION 2/S-4



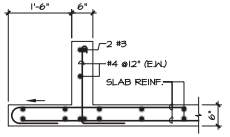
SECTION 3/S-4



SECTION 4/S-4



ROOF TERRACE & STAIRS STRUCTURAL PLAN
Scale: 1/4" = 1'-0" (t=6)



SECTION A/S-4


SANCHEZ ARANA ARQUITECTOS
AVE. F.D. ROOSEVELT #1130
RIO PIEDRAS, P.R. 00920
TEL.(809)782-4436, 782-4437


REVISIONS

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|---|---|---|---|

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

ANIBAL SALGADO DIAZ
INGENIERO LICENCIADO
LIC.#9435
PUERTO RICO


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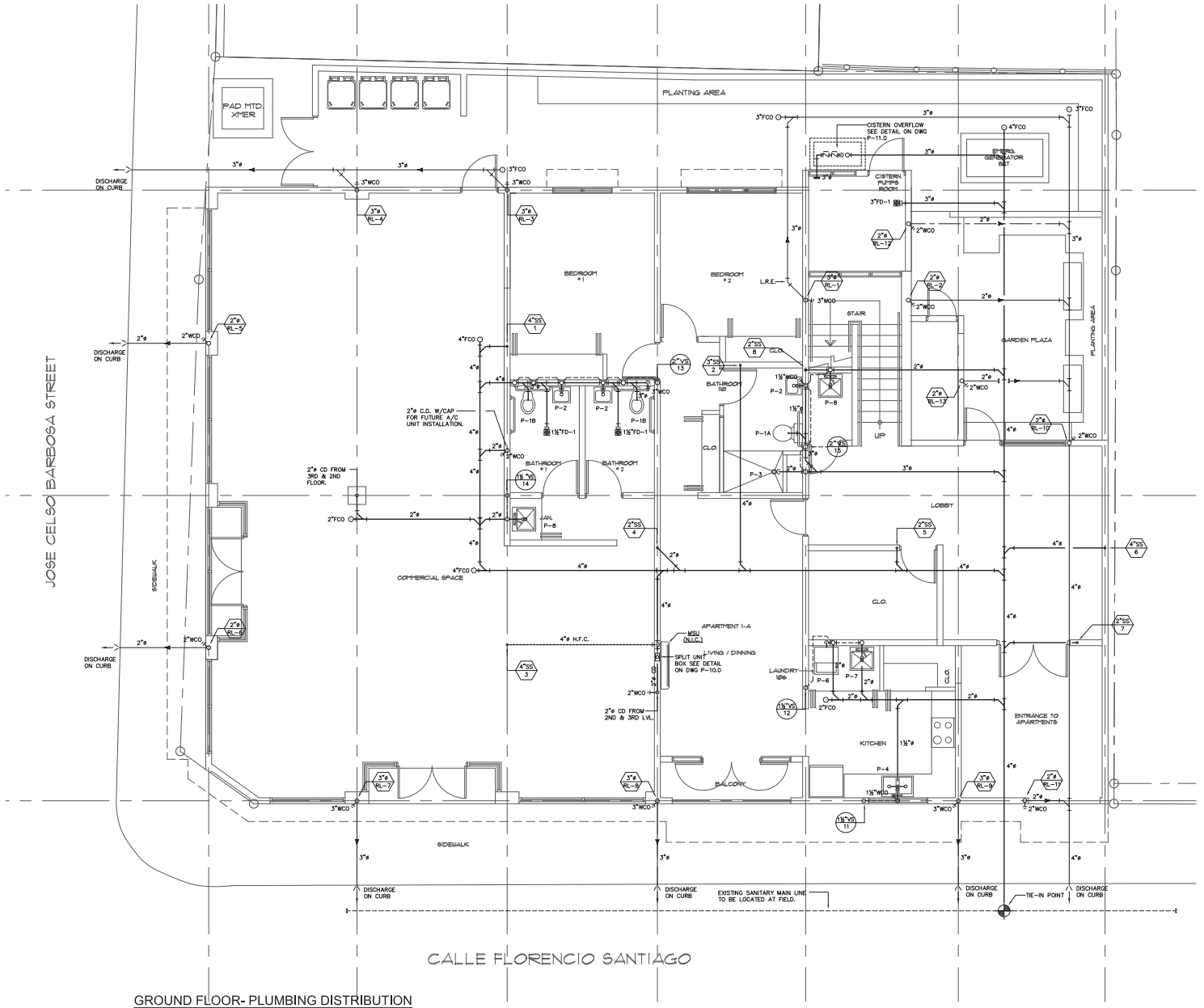
**DRAWING TITLE**
ROOF STRUCTURAL PLAN

SECTIONS & DETAILS

| PROJECT | SHEET NO. |
|---|---|
| | 00 OF 00 |
| DESIGNED | DRAWING |
| DRAWN K. YAMBO | S-4 |
| DATE 04-11-2019 | |


ASD
ANIBAL SALGADO DIAZ, MSCE, P.E.
STRUCTURAL ENGINEER
OFICINA CATALINA ALTOS, VIA. CAMINO DEL PEDREGAL P.R.
( DENTRO DE LOMAS DEL PEDREGAL )
URBANIZACION LAS ANDAS TORRE 1 - PISO 1202 #8 - GUAYNABO P.R. 00970
TEL. 787-706-1270 - FAX. 787-706-1280 - MOVIL: 396-4138
EMAIL : ASDSTRUCTURES@GMAIL.NET
PROJECT: 19-19 DATE: 07-01-2019




GROUND FLOOR- PLUMBING DISTRIBUTION

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

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787-755-3610 | lissanchezarana@gmail.com | 787-790-3188

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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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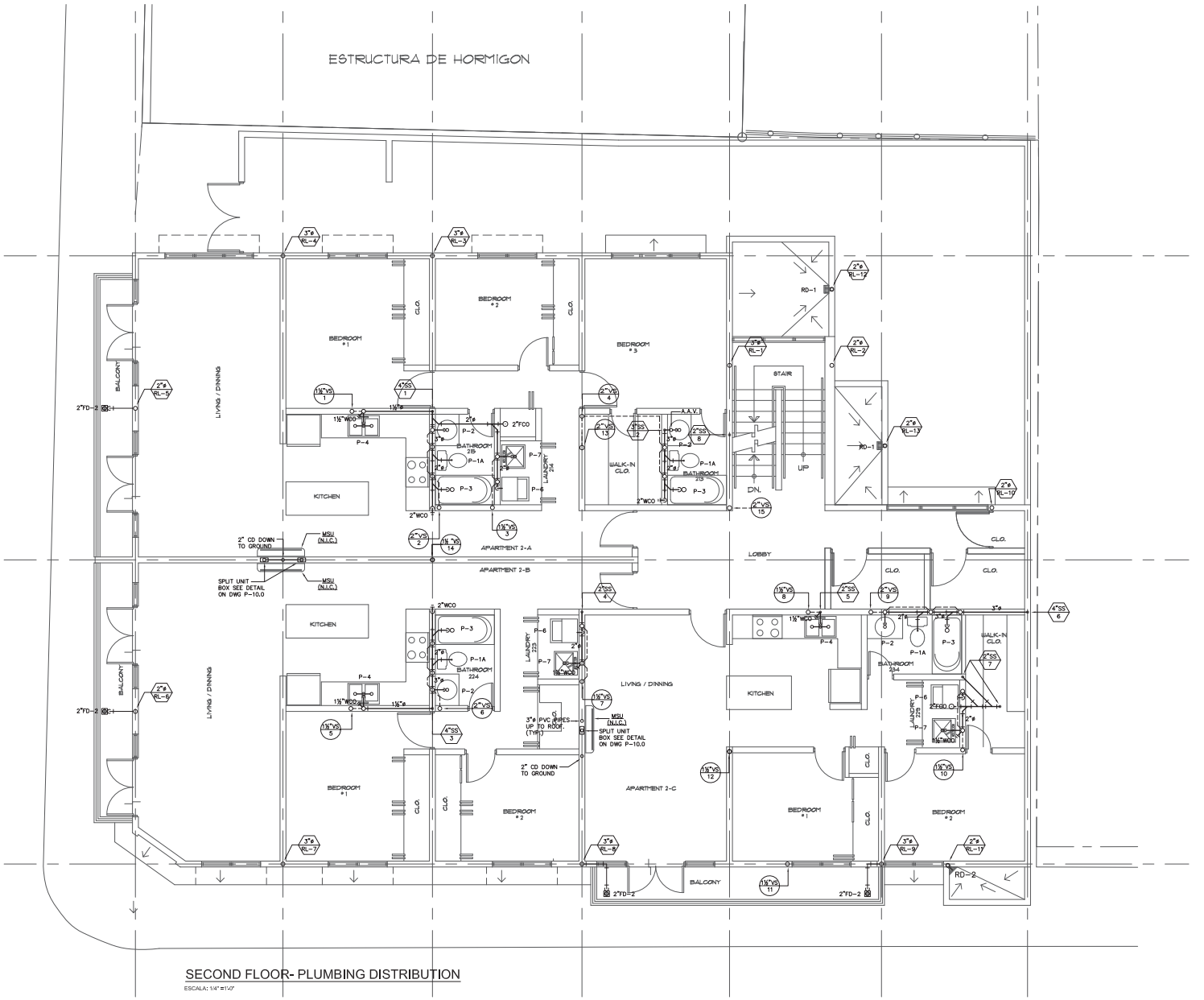
| DRAWN | P-1 |
| DATE 15/05/2019 | |




SECOND FLOOR- PLUMBING DISTRIBUTION

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EDIFICIO DE USO MIXTO
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CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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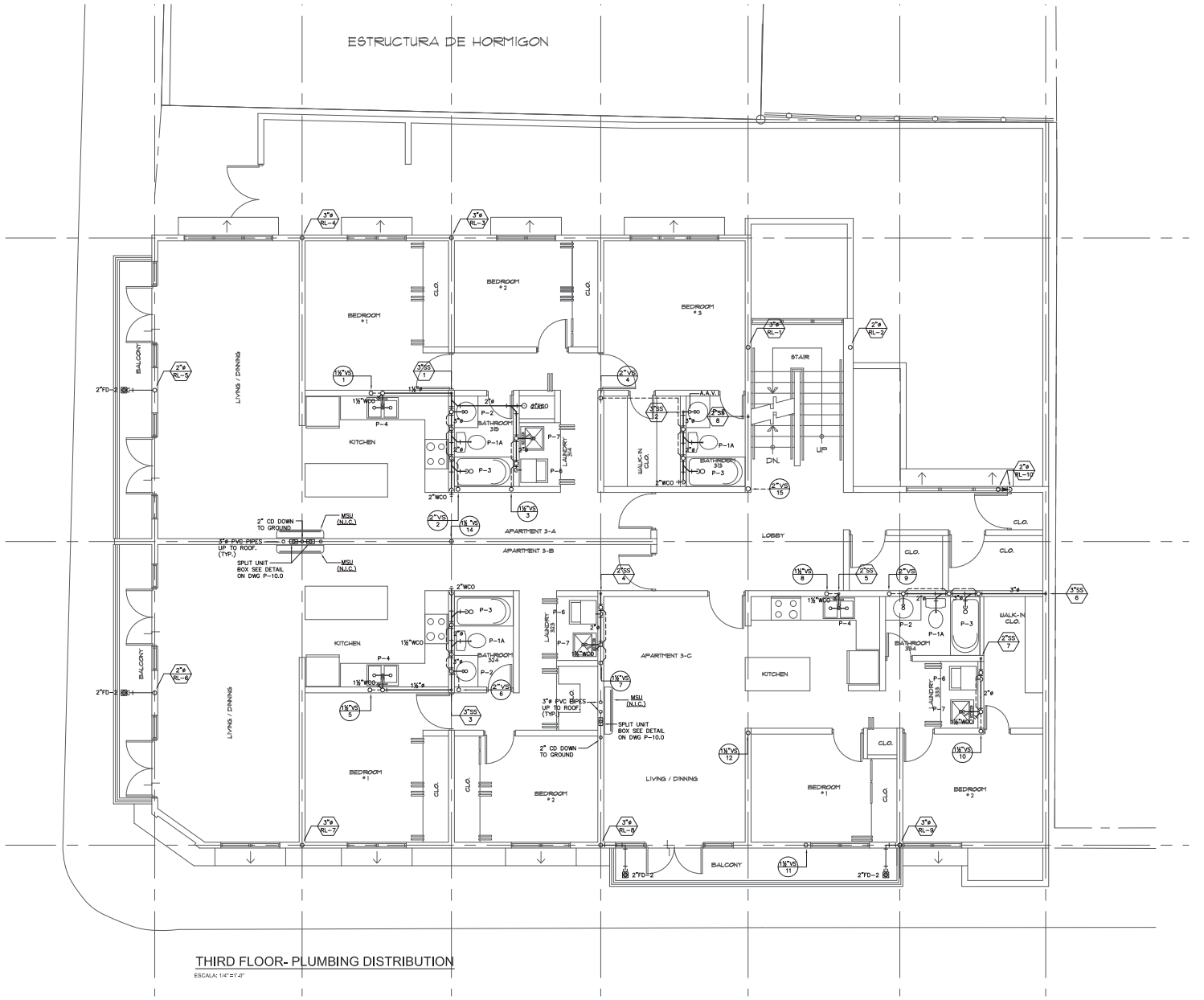
DRAWING TITLE
SECOND FLOOR PLUMBING DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-2 |
| DATE 15/05/2019 | |


ESTRUCTURA DE HORMIGON
BEDROOM #1
BEDROOM #2
BEDROOM #3
LIVING / DINING
KITCHEN
BATHROOM 3IB
BATHROOM 3IA
BATHROOM 3IB-1
BATHROOM 3IB-2
BATHROOM 3IB-3
BATHROOM 3IB-4
BATHROOM 3IA-4
BATHROOM 3IA-5
BATHROOM 3IA-6
BATHROOM 3IA-7
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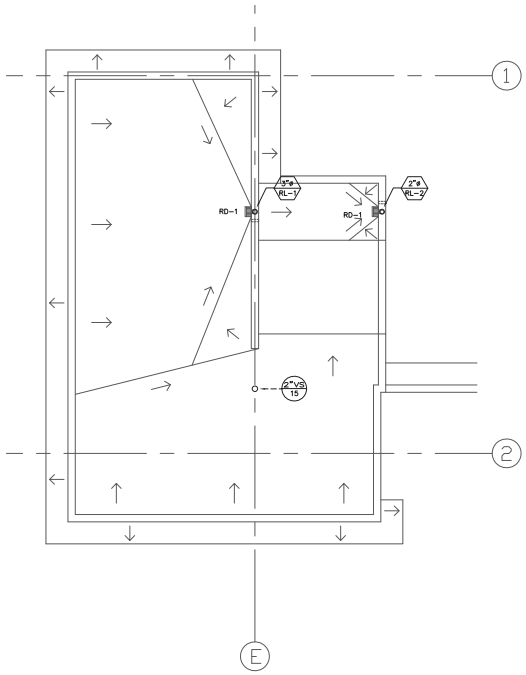
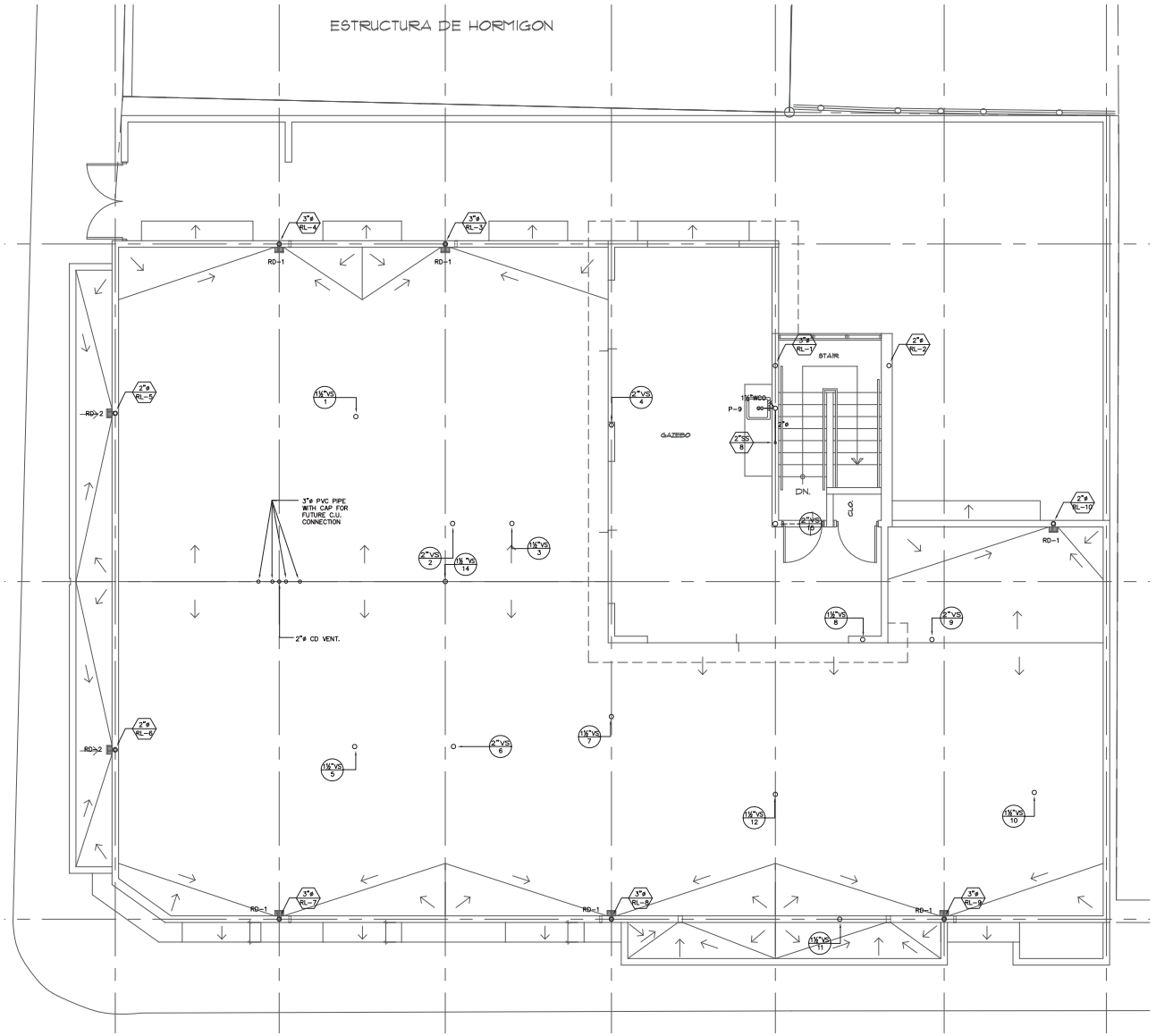
BATHROOM




STAIRS AND GAZEBO ROOF PLAN- PLUMBING DISTRIBUTION

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




ROOF PLAN- PLUMBING DISTRIBUTION

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787-255-3660 lisasanchezarana@gmail.com 787-298-3188

| NUM. | DESCRIPTION | BY | DATE |
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REVISIONS

EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
ROOF PLAN
PLUMBING DIST.

| PROJECT | SHEET NO. |
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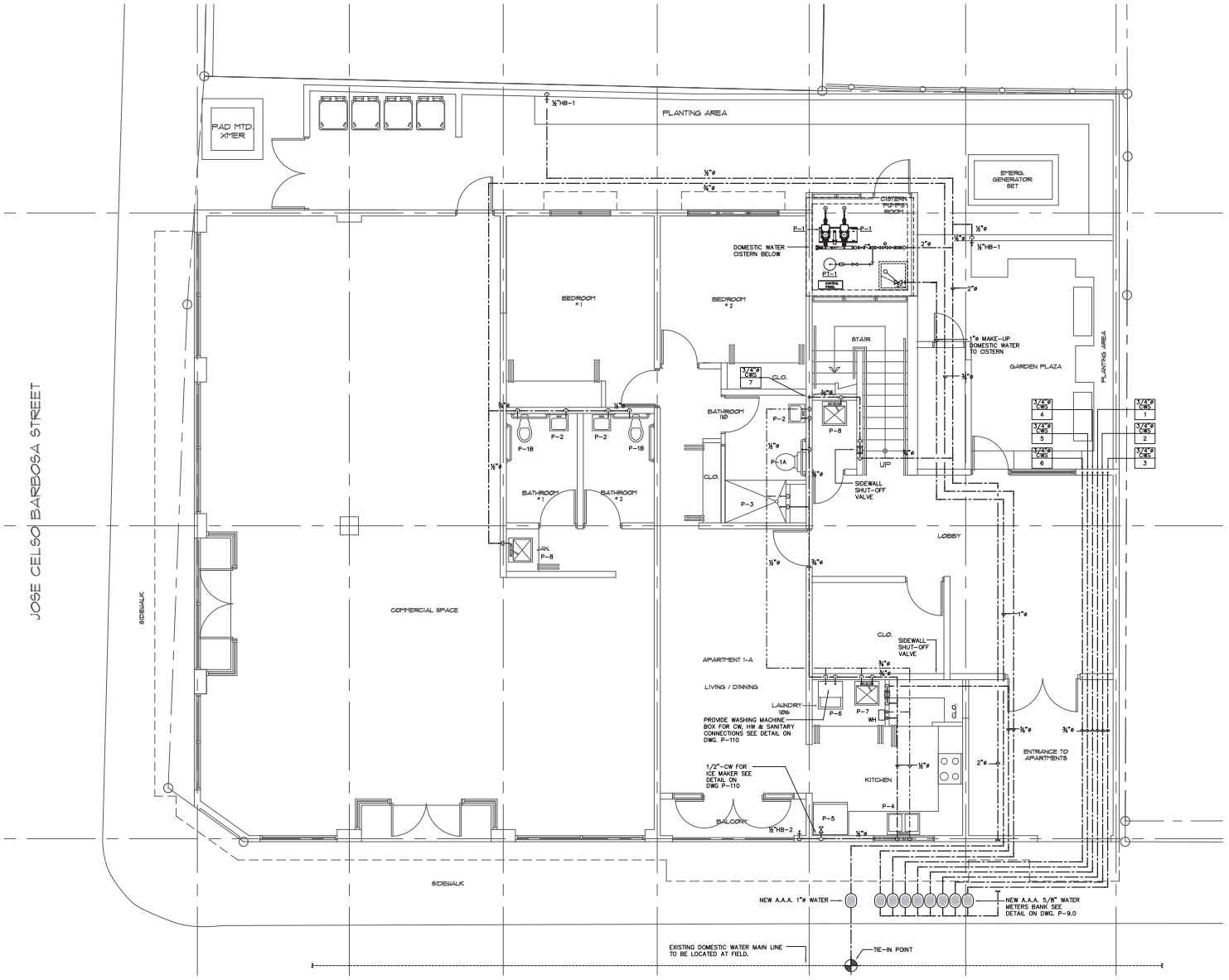
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-4 |
| DATE 15/05/2019 | |




GROUND FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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CALLE FLORENCIO SANTIAGO # 26
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DRAWING TITLE
GROUND FLOOR
DOMESTIC WATER DIST.

| PROJECT | SHEET NO. |
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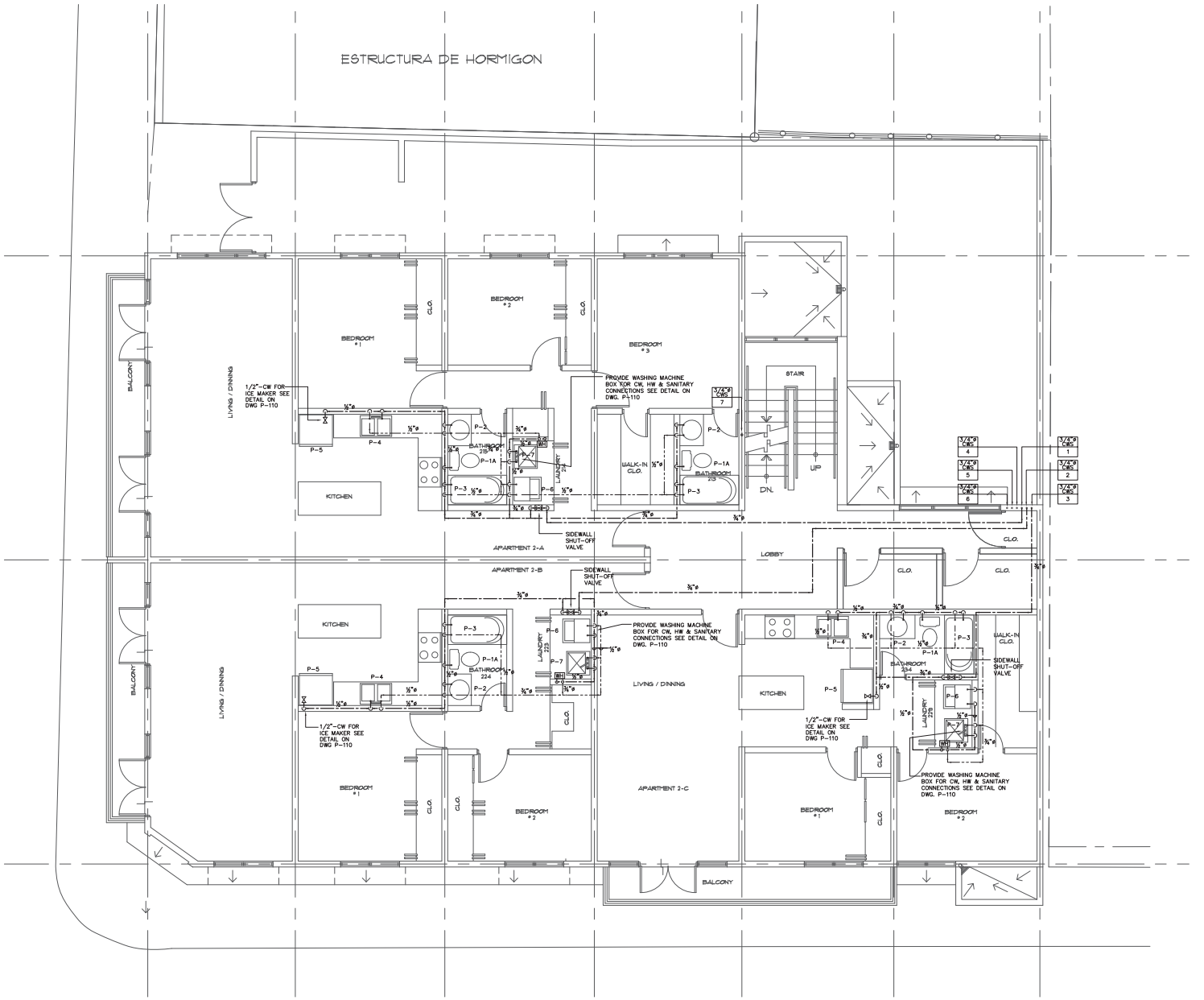
| DESIGNED | DRAWING |
| DRAWN | P-5 |
| DATE 15/05/2019 | |




SECOND FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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EDIFICIO DE USO MIXTO
( COMERCIO Y VIVIENDA )
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SECOND FLOOR
DOMESTIC WATER DIST.

| PROJECT | SHEET NO. |
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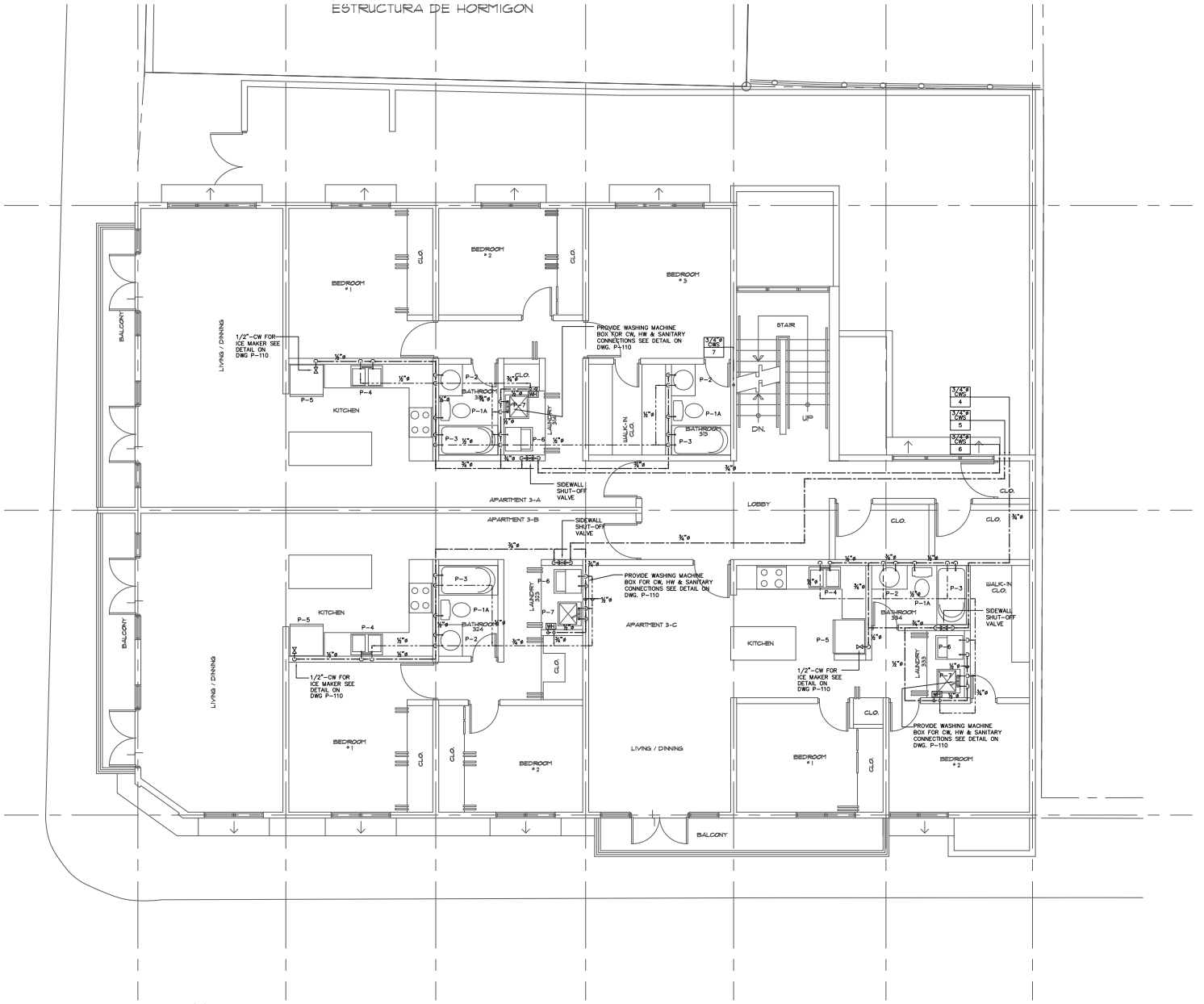
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-6 |
| DATE 15/05/2019 | |




THIRD FLOOR-
DOMESTIC WATER DISTRIBUTION

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

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EDIFICIO DE USO MIXTO
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DOMESTIC WATER DIST.

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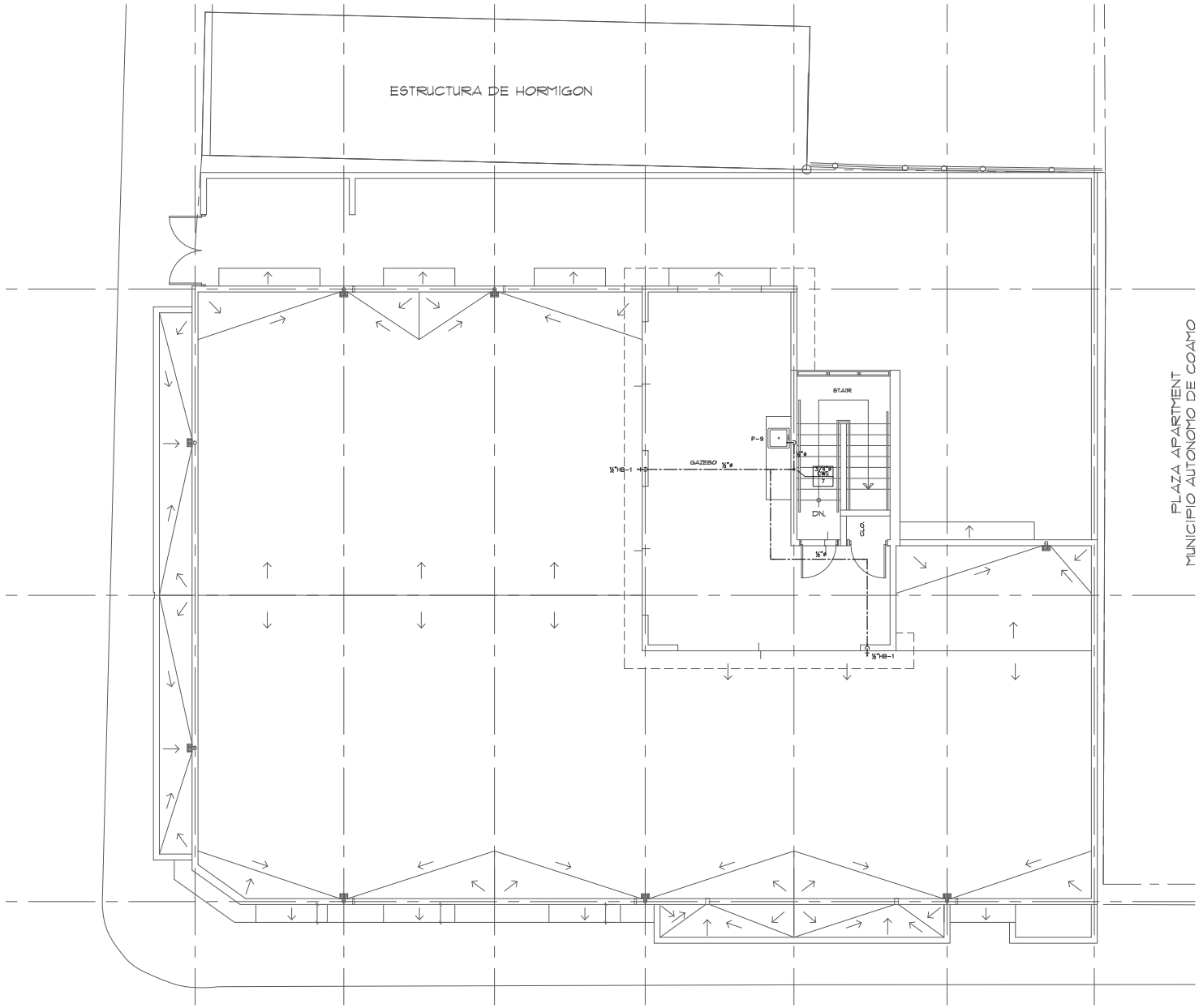
| DATE 15/05/2019 | |




ROOF PLAN-
DOMESTIC WATER DISTRIBUTION

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

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REVISIONS

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BARRIO PUEBLO, COAMO, PUERTO RICO

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DRAWING TITLE
ROOF PLAN
DOMESTIC WATER DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-8 |
| DATE 15/05/2019 | |

## PLUMBING NOTES:

1. THESE NOTES AS WELL AS THE LEGEND AND DETAILS APPLIES TO ALL PLUMBING WORK.
2. WATER PIPING BELOW GRADE TO BE TYPE "K" COPPER AND WATER PIPING ABOVE GRADE TO BE TYPE "L" HARD DRAWN COPPER. SIZE IS AS INDICATED DRAWINGS.
3. SOLDER USED IN ANY POTABE OR DOMESTIC WATER SYSTEM MUST BE LEAD–FREE.
4. ALL WATER SUPPLY LINES ARE TO BE SEPARATED A MINIMUM OF 1'–0" FROM SANITARY LINES.
5. ALL WASTE, SANITARY AND STORM DRAINAGE LINES 4" IN DIAMETER AND LARGED SHALL BE PVC SDR 35 AND SCHEDULE 40 FOR 3" AND SMALLER.
6. TRENCHES FOR ALL UNDERGROUND PIPES ARE TO BE EXCAVATED TO REQUIRED DEPTHS. AFTER THE PIPES HAVE BEEN TESTED, INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER, THE TRENCHES MUST BE FILLED WITH APPROVED FILL COMPACTED TO A MINIMUM OF 95% OF THE SOIL MAX. DRY UNIT WEIGHT.
7. ALL PIPING SHALL BE CONCEALED IN FLOOR TOPPINGS, WALL OR CHASES UNLESS OTHERWISE NOTED.
8. LONG SWEEP BENDS OR LONG SWEEP FITTINGS SHALL BE PROVIDED AT THE BASE OF ALL STACKS.
9. CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT INTERVALS NOT EXCEEDING 75 FEET FOR PIPES 4" AND SMALLER, AND 100 FEET FOR PIPES THROGH 10" IN DIAMETER.
10. HORIZONTAL DRAINAGE PIPES SHAL BE INSTALLED AND ALIGNED AT UNIFORM SLOPES NOT LESS THAN 1/4" INCH PER FEET FOR 3–INCH DIAMETER AND LESS, AND NOT LESS THAN 1/8 INCH PER FEET FOR DIAMETERS OF 4 INCHES OR MORE.
11. CLEANOUTS SHALL BE OF THE SAME NOMINAL SIZE AS PIPES UP TO 4" DIAMETER AND NOT LESS THAN 4" FOR LARGER DIAMETERS.
12. FIXTURES, FITTINGS, ACCESSORIES, MATERIALS AND ALL PLUMBING PRODUCTS SHALL BE AS PER SPECIFICATIONS ON THESE DRAWINGS. EQUAL OR SIMILAR SHALL BE ONLY ACCEPTED IF PREVIOUSLY APPROVED BY THE ARCHITECT/ENGINEER.
13. ALL FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.
14. THE PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST LOCAL BUILDING CODE, THE INTERNATIONAL PLUMBING CODE, THE HEALTH DEPARTMENT AND THE SPECIFICATIONS ISSUED FOR THE PROJECT.
15. SIZES SHOWN IN FIXTURE SCHEDULE ARE MINIMUM AND SHALL BE INCREASED AS NECESSARY TO COMPLY WITH CODE REQUIREMENTS OR AS SHOWN ON DRAWINGS.
16. BEFORE STARTING CONSTRUCTION, THE PLUMBING CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATIONS OF EXISTING PIPE LINES TO REMAIN IN USE . ANY SIGNIFICANT DISCREPANCY WITH THE INFORMATION SHOWN ON THESE DRAWINGS SHALL BE NOTIFIED TO THE ARCHITECT/ENGINEER FOR REVISION.
17. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY SERVICES AND/OR CONNECTIONS REQUIRED FOR THE PLUMBING FIXTURES AND EQUIPMENT SHOWN ON PLANS AND FIXTURES SCHEDULE.
18. PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY ROUGHING–IN AND INSTALL THE PLUMBING FIXTURES AS INDICATED ON THESE DRAWINGS.
19. THE PROPOSED WATER DISTRIBUTION SYSTEM MUST BE TESTED TO A HYDROSTATIC PRESSURE OF 125 PSI AND PROVED TIGHT AT THIS PRESSURE FOR FOUR CONSECUTIVE HOURS BEFORE PIPES ARE CONCEALED AND PRIOR TO ANY FIXTURE INSTALATION.
20. ALL WASTE AND DRAIN PIPES ARE TO BE TESTED USING WATER AND PROVED TIGHT TO THE ARCHITECT/ENGINEER BEFORE TRENCHES ARE BACKFILED, PIPES CONCEALED OR FIXTURE INSTALLATION.
21. OTHER QUALIFIED MANUFACTURERS' PRODUCTS CAN BE SUBMITTED FOR APPROVAL TO THE ARCHITECT OR ENGINEER ALONG WITH A COMPARATIVE TABLE SHOWING CHARACTERISTICS OF THE SPECIFIED AND PROPOSED PRODUCT.
22. COOLING COIL CONDENSATE DRIP PIPING MATERIAL: SHALL BE TYPE "M" COPPER OR SCH.40PVC.
23. CONDENSATE PIPING INSULATION SHALL BE 1/2" THICK CLOSED CELL FLEXIBLE ELASTOMERIC THERMAL INSULATION (K=0.30 BTU*in/h*ft^2*F @ 75F MAX). PROVIDE WEATHER–RESISTANT PROTECTIVE FINISH FOR OUTDOOR USE.

## PLUMBING FIXTURE SCHEDULE

| DESIG–NATION | DESCRIPTIONS | UNIT WASTE OR SOIL | VENT SIZE | WATER SUPPLY | | REMARKS |
|---|---|---|---|---|---|---|
| | | | | COLD | HOT | |
| P–1A | TOILET (FLUSH TANK) | 3" | 1½" | ½" | – | SEE ARCH DWGS. |
| P–1B | TOILET (FLUSH VALVE) | 3" | 1½" | 1" | – | SEE ARCH DWGS. |
| P–2A | LAVATORY | 1½" | 1¼" | ½" | ½" | SEE ARCH DWGS. |
| P–2B* | LAVATORY | 1½" | 1¼" | ½" | – | SEE ARCH DWGS. |
| P–3 | SHOWER | 2" | 1½" | ½" | ½" | SEE ARCH DWGS. |
| P–4 | KITCHEN DOUBLE SINK | 1½" | 1¼" | ½" | ½" | SEE ARCH DWGS. |
| P–5 | ICE MAKER | – | – | ½" | – | SEE DETAIL ON DWG P–10.0 |
| P–6 | WASHER MACHINE | 2" | 1½" | ½" | ½" | SEE DETAIL ON DWG P–10.0 |
| P–7 | LAUNDRY SINK | 2" | 1½" | ½" | ½" | SEE ARCH DWGS. |
| P–8 | JANITOR SINK | 2" | 1½" | ½" | – | SEE ARCH DWGS. |
| P–9 | SINGLE SINK | 2" | 1½" | ½" | | SEE ARCH DWGS. |
| RD–1 | ROOF DRAIN | SEE DWG | – | – | – | SIMILAR TO JAY R. SMITH Fig. No. 1510T |
| RD–2 | ROOF DRAIN | SEE DWG | – | – | – | SIMILAR TO JAY R. SMITH Fig. No. 1690T |
| FD–1* | FLOOR DRAIN | SEE DWG | 1¼" | – | – | SEE DETAIL ON DWG P–7 |
| FD–2 | FLOOR DRAIN | SEE DWG | 1¼" | – | – | SEE DETAIL ON DWG P–7 |

* INCLUDE SMITH FIGURE 2699 TRAP SEAL PRIMER VALVE INSTALLED IN THE LAVATORY COLD WATER SUPPLY LINE AND CONNECTED TO THE FLOOR DRAIN TRAP.

## PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- VALVE IN DROP
- DIRECTION OF FLOW (SANITARY)
- TEE PIPE DOWN
- SANITARY TEE
- GATE VALVE
- WATER HAMMER ARRESTOR
- P–TRAP
- FLOOR DRAIN W/P–TRAP
- FLOOR SINK W/P–TRAP
- FLOOR DRAIN W/P–TRAP
- FLOOR CLEANOUT
- CLEANOUT PLUG
- WALL CLEANOUT PLUG
- STORM LEADER STACK
- SANITARY STACK
- HOSE BIBB
- FREE DISCHARGE

## PIPING TYPES

- SANITARY SEWER PIPE
- SANITARY VENT PIPE
- COLD WATER PIPE
- HOT WATER PIPE

## ABBREVIATIONS

| | |
|---|---|
| (H.F.C.) | HUNG FROM CEILING |
| CLG | CEILING |
| (UG) | UNDERGROUND |
| W.H. | WATER HEATER |
| (DN.) | DOWN |
| CWR | COLD WATER RISER |
| CW | COLD WATER |
| HW | HOT WATER |
| S.S. | SANITARY STACK |
| V.S. | VENT STACK |
| CD | CONDENSATE DRAIN |
| R.L. | RAIN LEADER |
| R.D. | ROOF DRAIN |
| FL. | FLOOR |
| FPR | FIRE PROTECTION RISER |
| H.B. | HOSE BIBB |
| V.T.R. | VENT THRU ROOF |
| V | VENT |
| C.O.P. | CLEANOUT PLUG |
| FCU | FAN COIL UNIT |
| F.D. | FLOOR DRAIN |
| C.O. | CLEANOUT |
| W.H.A. | WATER HAMMER ARRESTOR |
| DWG. | DRAWING |
| TYP. | TYPICAL |
| CONC. | CONCRETE |

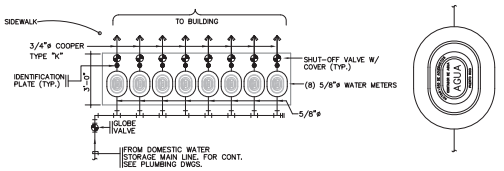
## WATER TANK & PUMP NOTES

1. CONTRACTOR SHALL FURNISH & INSTALL THE FOLLOWING EQUIPMENT (OR EQUAL).

   PT–1. PRESSURE TANK – 180 GALLON 200 PSIG RATED SYNCROFLO HYDROCUMULATOR TANK

   P–1&2. AURORA CONSTANT SPEED VERTICAL MULTI–STAGE DIFFUSER PUMPS WITH STAINLESS STEEL SHAFTS, STAINLESS STEEL IMPELLERS, AND A TUNGSTEN CARBIDE MECHANICAL SEAL. PUMP NO. 1 SHALL BE MODEL PVM8–40 RATED 50 GPM AT 150 FT. TDH DRIVEN BY A 3 H.P., 208 VOLTS, 60 HERTZ, 3 PHASE, 3500 RPM, OPEN DRIP PROOF VERTICAL SOLID SHAFT MOTOR. PUMP NO. 2 SHALL BE MODEL PVM8–40 RATED 50 GPM AT 150 FT. TDH DRIVEN BY A 3 H.P., 208 VOLTS, 60 HERTZ, 3 PHASE, 3500 RPM, OPEN DRIP PROOF VERTICAL SOLID SHAFT MOTOR. EACH MOTOR SHALL MEET NEMA STANDARDS AND OPERATE WITHIN THE NAMEPLATE HORSEPOWER AT ANY POINT ON THE PUMP CAPACITY HEAD CURVE.

   CISTERN WATER TANK – 1,800 GALLON 7'–10" x 7'–1" x 6'–0" CONCRETE
2. CONTRACTOR SHALL PROVIDE CONCRETE PADS FOR EACH PIECE OF EQUIPMENT.
3. CONTRACTOR SHALL PROVIDE A DUAL PUMP CONTROL PANEL AND ALL NECESSARY ISOLATION VALVES, PRESSURE INDICATORS, PRESSURE REGULATORS, FLOAT VALVES, CHECK VALVES, LEVEL AND PRESSURE SENSORS AS REQUIRED FOR THE PROPER OPERATION OF THE SYSTEM.




| DESCRIPTION | SPACE | METER SIZE |
|---|---|---|
| 1st FLOOR APARTMENT | (1A) | 5/8"ø |
| 1st FLOOR COMMERCIAL AREA | (1B) | 5/8"ø |
| COMMON AREAS | (1C) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2A) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2B) | 5/8"ø |
| 2nd FLOOR APARTMENT | (2C) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3A) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3B) | 5/8"ø |
| 3rd FLOOR APARTMENT | (3C) | 5/8"ø |

## WATER METER BANK DETAIL

NOT TO SCALE

## PIPING SPECIFICATIONS:

| SERVICE | LOCATION | | P.V.C. TYPE SDR–35 A.S.T.M. 3034 | P.V.C. D.W.V. SCH. 40 A.S.T.M.–D–2665 | COPPER PIPE TYPE "K" A.S.T.M.– B – 88 – 60a | GALVANIZED PIPE SCH. 40 A.S.T.M. – A– 120 | COPPER PIPE TYPE "L" A.S.T.M.– B– 88–51 | BLACK STEEL PIPE A.S.T.M. – A– 120* | C.I. D.W.V. NO HUB COUPLINGS | P.V.C. S.D.R. –14 | P.V.C. CLASS 200 J.M. BLUE BRUTE UL/FM LISTED | COPPER PIPE TYPE "DWV" ASTM "B"–306–66a |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOIL DRAINS | BRANCHES THRU SLAB | 3" OR LESS | | ● | | | | | | | | |
| | | MORE THAN 3" | | | | | | | | | | |
| | VERTICAL STACKS | | | ● | | | | | | | | |
| | BUILDING DRAIN UNDERGROUND (3" OR LESS) | | | ● | | | | | | | | |
| | BUILDING SEWER UNDERGROUND (MORE THAN 3") | | ● | | | | | | | | | |
| | BRANCHES ABOVE FLOOR SLAB | | | ● | | | | | | | | |
| WASTE DRAINS | BRANCHES THRU SLABS | | | ● | | | | | | | | |
| | VERTICAL STACK | | | ● | | | | | | | | |
| | HORIZONTAL STACK | | | ● | | | | | | | | |
| | UNDERGROUND | | ● | | | | | | | | | |
| | BRANCHES ABOVE FLOOR SLAB | | | ● | | | | | | | | |
| VENTS | BRANCHES HORZ. & VERT. | | | ● | | | | | | | | |
| | VERTICAL STACKS | | | ● | | | | | | | | |
| | UNDERGROUND | | | ● | | | | | | | | |
| WATER | UNDERGROUND MAINS 4" ABOVE | | | | | | | | | ● | | |
| | UNDERGROUND | | | | | | | | | ● | | |
| | ABOVE GROUND | | | | | | | ● | | | | |
| | THRU CONCRETE SLAB | | | | | | | ● | | | | |
| STORM DRAINS | VERTICAL LEADERS & DOWNSPOUTS | CONCEALED | | ● | | | | | | | | |
| | | EXPOSED | | ● | | | | | | | | |
| | HUNG FROM CEILING | | | ● | | | | | | | | |
| | UNDERGROUND OUTSIDE BUILDING | | | ● | | | | | | | | |
| | UNDERGROUND INSIDE BUILDING | | | ● | | | | | | | | |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REVISIONS

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( COMERCIO Y VIVIENDA )
CALLE FLORENCIO SANTIAGO # 26
BARRIO PUEBLO, COAMO, PUERTO RICO


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PLUMBING NOTES & SCHEDULES.

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| DRAWN | P–9 |
| DATE 15/05/2019 | |


Yo, Francisco J. Maté, ingeniero, licencia #13947, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que en ella se haga producirá sin conocimiento o por negligencia yo sea yo el/la ejecutor o empleado, o por otras personas con mi conocimiento, me hace responsable de cualquier acción judicial y disciplinaria por la OPPI y otras autoridades concurrentes, incluyendo, pero no limitarse, a la terminación de la participación en los procedimientos de certificación profesional de la OPPI.

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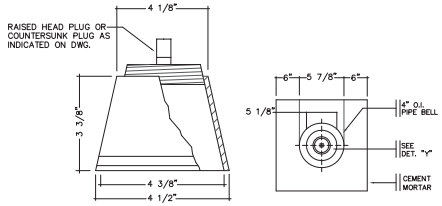
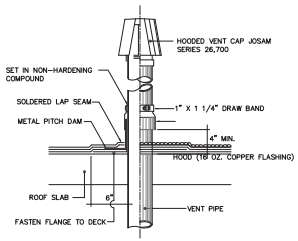


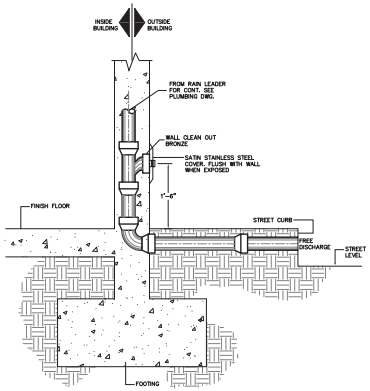

GROUND CLEANOUT DETAIL

NOT TO SCALE




VENT PIPE THRU ROOF TYPICAL DETAIL

NOT TO SCALE




STORM SEWER RISER DETAIL

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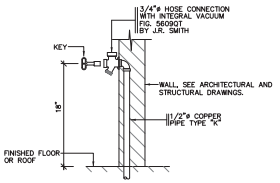
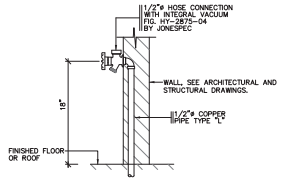


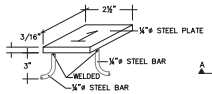

HOSE BIBB INSTALLATION DETAIL (HB-1)

NOT TO SCALE

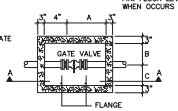



HOSE BIBB INSTALLATION DETAIL (HB-2)

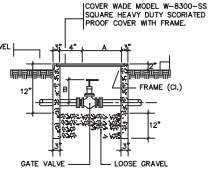
NOT TO SCALE




METALLIC PLATE DETAIL




PLAN




SECTION A-A

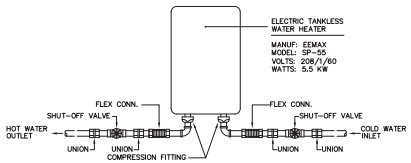
VALVE BOX SCHEDULE

| DIMENSIONS MARKED | VALVE SIZE (IN INCHES) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 3" | 2 1/2" | 2" | 1 1/2" | 1 1/4" | 1" | 3/4" | 1/2" |
| A | 13" | 13" | 11" | 11" | 11" | 8" | 8" | 8" |
| B | 6" | 6" | 5" | 5" | 5" | 4" | 4" | 4" |
| C | 9" | 9" | 8" | 8" | 8" | 6" | 6" | 6" |
| ACCESS COVER SIZE | AS REQUIRED | | | | | | | |

NOTE: VALVES 2 1/2" & SMALLER SHALL BE EQUAL TO NIBCO MODEL 595-Y-66. FOR 3" VALVE USE NIBCO MODEL 590-Y-66 OR APPROVED EQUAL.

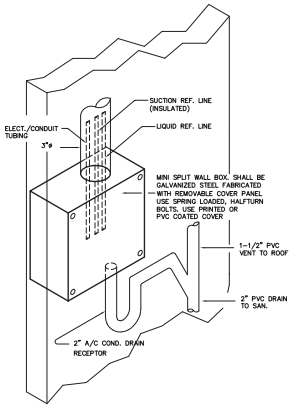
VALVE BOX DETAIL

NOT TO SCALE



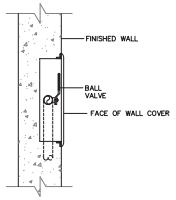

IN-LINE WATER HEATER DETAIL

NOT TO SCALE



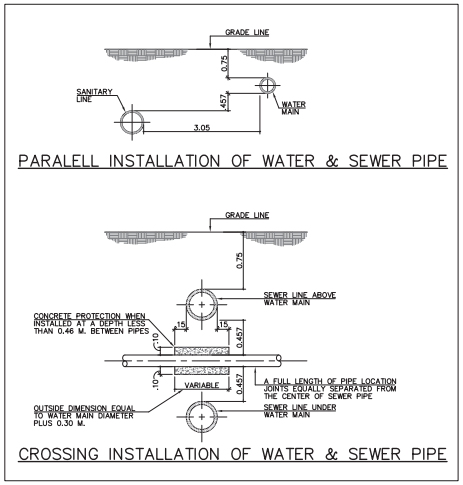

WALL PANEL BOX DETAIL

NOT TO SCALE




SIDEWALL VALVE BOX DETAIL

NOT TO SCALE




TYPICAL SEPARATION OF WATER & SEWER PIPES

NOT TO SCALE

Yo, Francisco J. Maldonado, Ingeniero, licencia #13947, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haga producida sin conocimiento o por negligencia yo sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hace responsable de cualquier acción judicial y disciplinaria por la OPP y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OPP.

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| DESIGNED | DRAWING |
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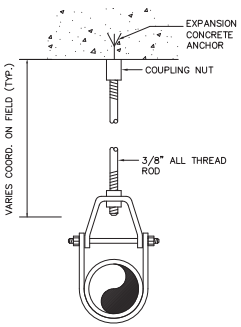
| DATE 15/05/2019 | |




PIPING SUPPORT DETAIL
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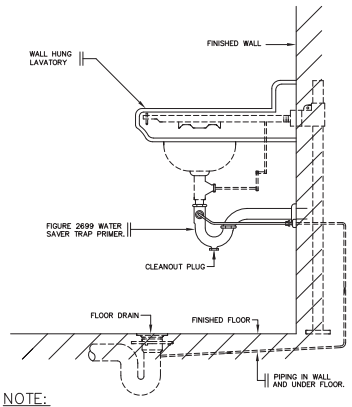
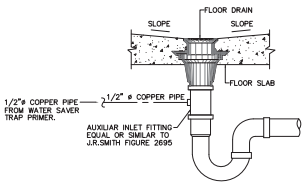
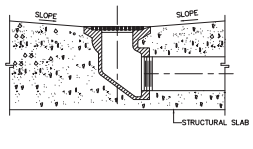



NOTE:
WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

WATER TRAP PRIMER DETAIL
NOT TO SCALE

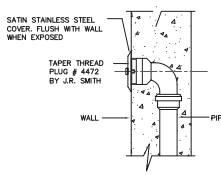



F.D.–1
FLOOR DRAIN EQUAL OR SIMILAR TO J.R. SMITH FIGURE 2010–B (G),(U)

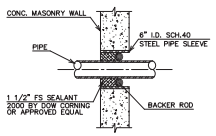



F.D.–2
FLOOR DRAIN EQUAL OR SIMILAR TO J.R. SMITH FIGURE 1670T

FLOOR DRAIN DETAILS
NOT TO SCALE




WALL CLEANOUT DETAIL
NOT TO SCALE




TYP. CNDUIT THRU MASONRY WALL DETAIL
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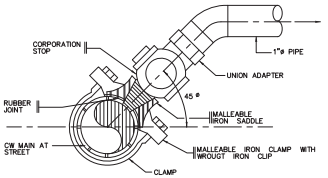


TYPICAL WATER SERVICE CONN. WITH CLAMP DETAIL
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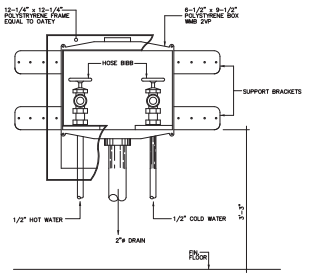
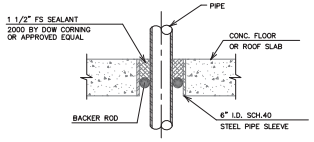
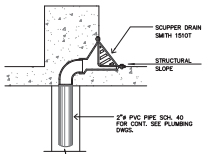


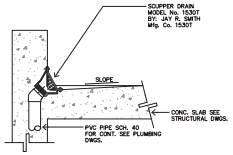

WASHER MACHINE CONNECTION BOX
NOT TO SCALE



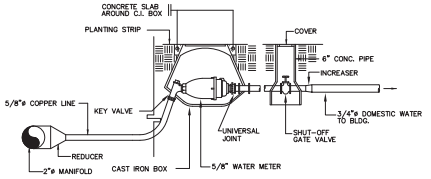

TYP. PIPE SLEEVE THROUGH ROOF & FLOOR DETAIL
NOT TO SCALE



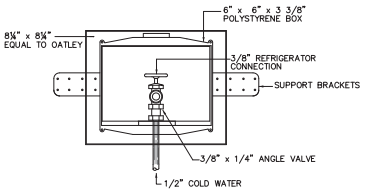

ROOF DRAIN DETAIL (RD–1)
NOT TO SCALE



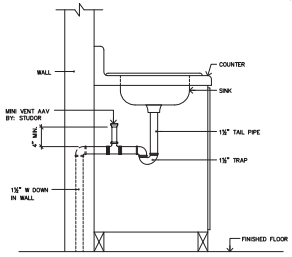

ROOF DRAIN DETAIL (RD–2)
NOT TO SCALE



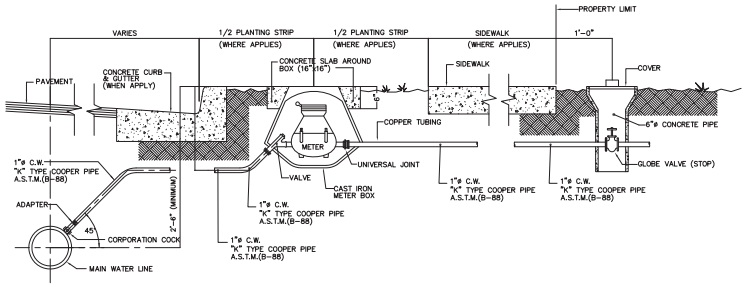

TYPICAL 5/8"WATER METER BANK INSTALLATION DETAIL
NOT TO SCALE



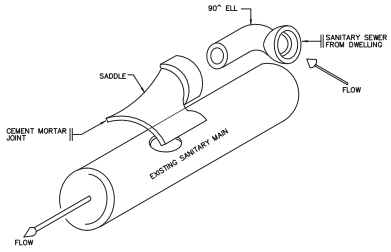

ICE MAKER CONNECTION BOX DETAIL
NOT TO SCALE




UNDER THE COUNTER AIR ADMITTANCE VALVE DETAIL
NOT TO SCALE




1" WATER METER CONNECTION DETAIL
NOT TO SCALE




SADDLE CONNECTION DETAIL
NOT TO SCALE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BARRIO PUEBLO, COAMO, PUERTO RICO


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DRAWING TITLE
PLUMBING DETAILS

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| DRAWN | P-11 |
| DATE 15/05/2019 | |


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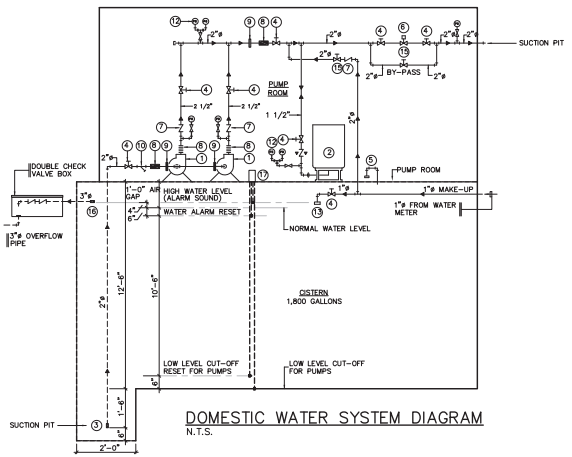
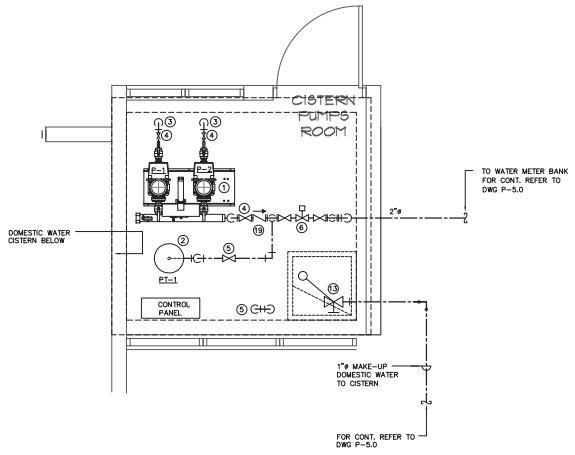



## DOMESTIC WATER SYSTEM DIAGRAM
N.T.S.




## DOMESTIC WATER PUMP ROOM BLOWUP
SCALE: 1/2" = 1'-0"

## VOLUME CAPACITY OF CISTERN

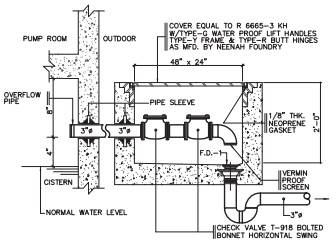
CISTERN AREA: 7'-10" X 7'-1" = 55.48 SQ. FT.
CISTERN CLEAR INSIDE HEIGHT: 6'-0"
AIR GAP ALLOWANCE: 1'-0"
WATER LEVEL INSIDE HEIGHT: 5'-0"
CISTERN WATER VOLUME: 55.48 SQ. FT. x 5'-0" = 277.40 CU. FT.
TOTAL WATER STORAGE CAPACITY: 277.40 x 7.48 = 2,074 GALLONS.
PROJECT DAILY CONSUMPTION: 7 APARTMENTS x 400 GALS/APARTMENT PLUS 1,735 SQ. FT. OF COMMERCIAL SPACE x 300 GALS/1,000 SQ. FT. = 2,800 + 520.5 GALLONS = 3,320.5 GALLONS
CISTERN RESERVE OF HALF DAY AS PER A.A.A. RULES AND REGULATION = 1,660.25 GALLONS

## CISTERN NOTES:

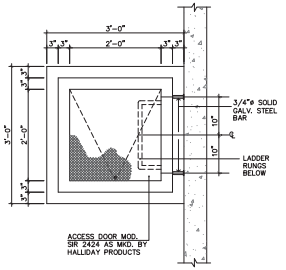
1. CISTERN WATERPROOFING SHALL BE "VANDEX SUPER" CAPILLARY / CRYSTALINE WATERPROOFING SLURRY BY VANDEX INTERNATIONAL LTD.
2. APPLY BITUMINOUS DAM PROOFING ON ALL EXTERIOR & UNDERGROUND WALLS AND UNDERGROUND SLABS, APPROVED EQUAL TO EMULSIFIED ASPHALT INC.
3. INSTALL VAPOR BARRIER AT BOTTOM SLABS AND FOOTINGS
4. ALL CONTROL WIRING IN THE PUMP ROOM AND CISTERN SHALL BE IN ACCORDANCE W/ THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
5. PLACE A DOUBLE CHECK VALVE IN OVERFLOW LINE.

## LEGEND:

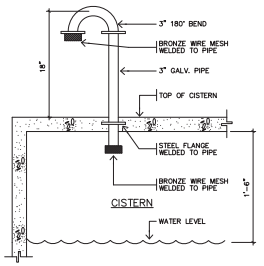
1. DOUBLE DOMESTIC PUMP SYSTEM, EACH PUMP CAPACITY 25 GPM @ 80 PSI, SIMILAR TO PENTAIR PVM(X)5-7 WITH A 3 HP, 230V, 3PH, 60 HZ MOTOR AND VARIABLE FREQUENCY DRIVE WITH PHASE CONVERTER, SIMILAR TO SJE RHOMBUS VARIOSPEED MODEL VS21-10.0-N1.
2. HYDROPNEUMATIC TANK, MOD. 170, CAPACITY TO BE 170 GALLONS. TANK TO HAVE A REPLACEABLE FLEXIBLE MEMBRANE TO SEPARATE AIR AND WATER.
3. 3" FLOW FLOMATIC FOOT VALVE, LEAD FREE BRONZE CONSTRUCTION
4. SHUT-OFF GATE VALVE NORMALLY OPEN
5. 3"ø CISTERN VENT
6. 2" PRESSURE REDUCING VALVE.
7. FLOMATIC CHECK VALVE, LEAD FREE BRONZE CONSTRUCTION
8. FLEXIBLE CONNECTION
9. FLANGE CONNECTION
10. STRAINER
11. FLOW SWITCH
12. SYSTEM PRESSURE SWITCHES TO CONTROL DOMESTIC PUMPS OPERATION.
13. FLOAT VALVE
14. FLOW CONTROL
15. GATE VALVE NORMALLY CLOSED
16. 3" OVERFLOW
17. PROBE HOLDER
18. CISTERN LADDER RUNGS
19. CHECK VALVE



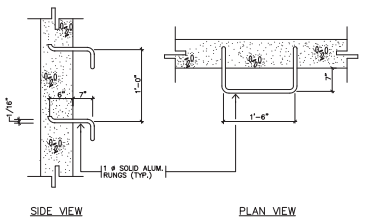

## CISTERN OVERFLOW & ACCESS DOOR DETAIL
N.T.S.



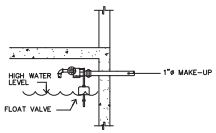

## ACCESS DOOR DETAIL
NOT TO SCALE




## CISTERN VENT DETAIL
NOT TO SCALE




## LADDER RUNG DETAIL
NOT TO SCALE




## FLOAT VALVE DETAIL
NOT TO SCALE

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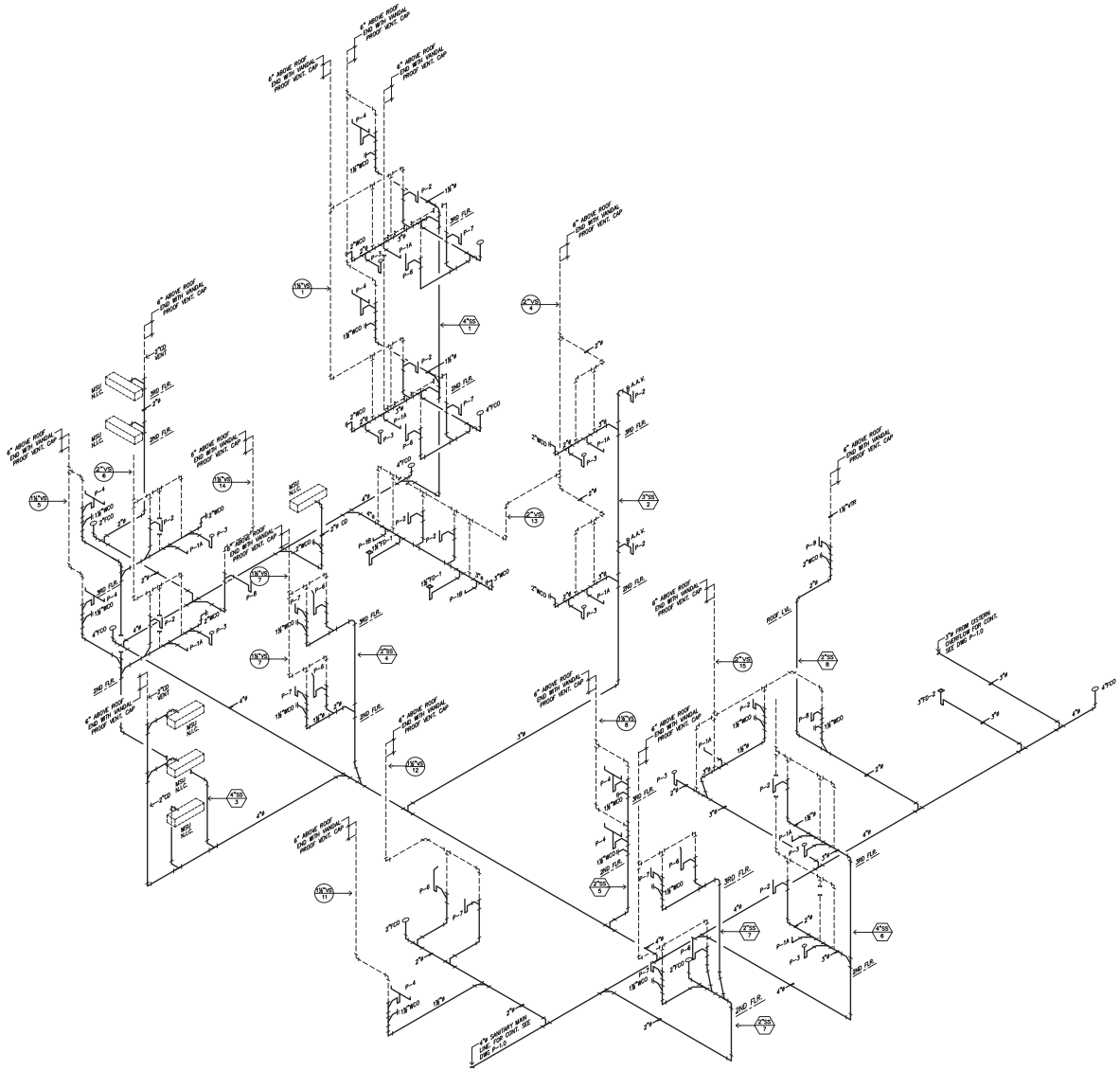
DRAWING TITLE
DOMESTIC WATER SYSTEM DETAILS & SPECS.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-12 |
| DATE 15/05/2019 | |



SANITARY ISOMETRIC

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

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DRAWING TITLE
SANITARY
ISOMETRIC

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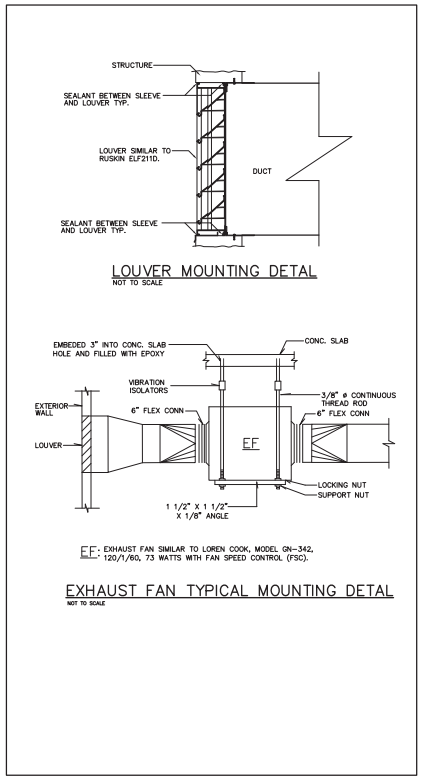
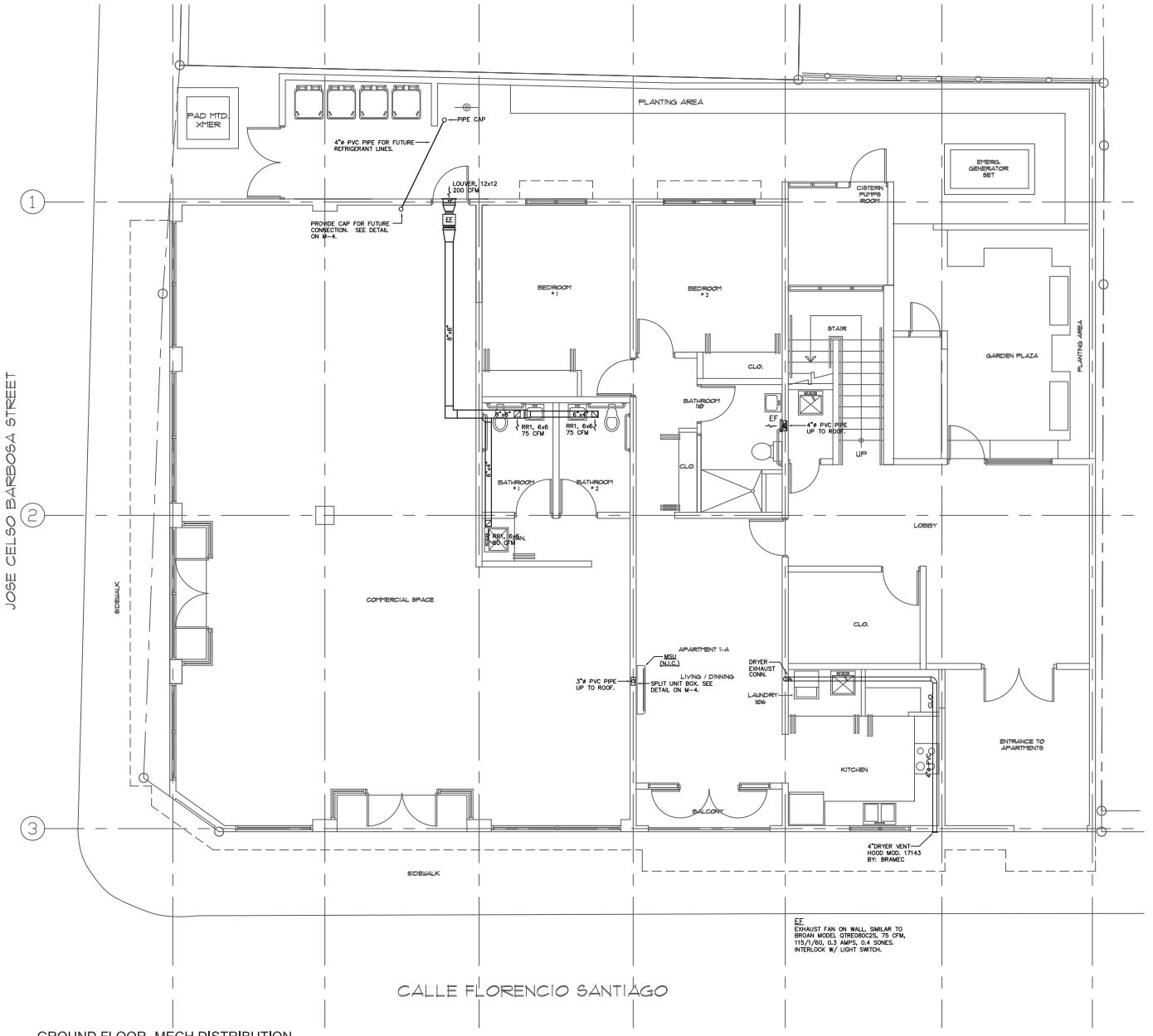
| | OF |
| DESIGNED | DRAWING |
| DRAWN | P-13 |
| DATE 15/05/2019 | |




GROUND FLOOR- MECH DISTRIBUTION

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

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MECH. DIST.

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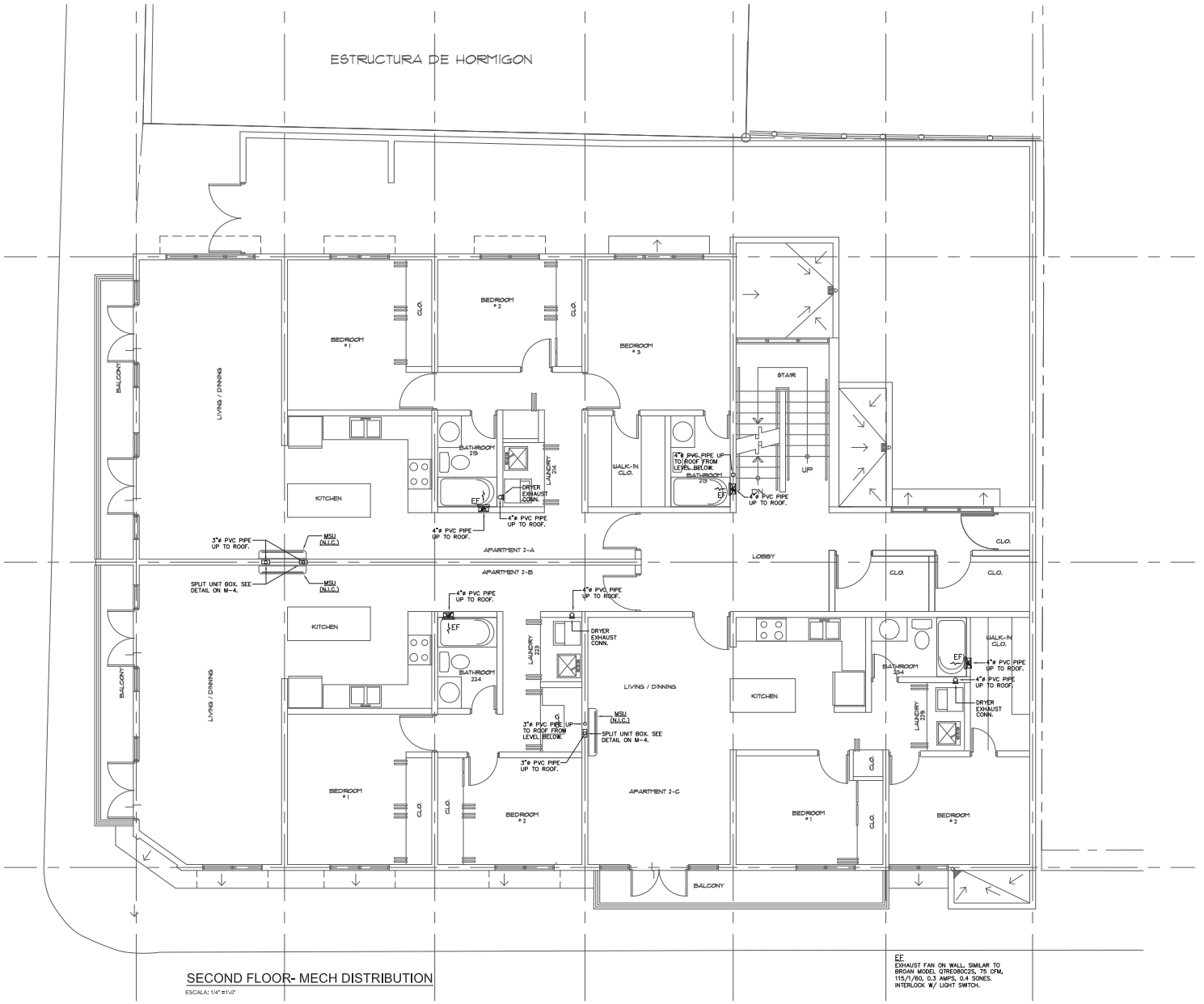
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-1 |
| DATE 15/05/2019 | |




SECOND FLOOR- MECH DISTRIBUTION

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

EF
EXHAUST FAN ON WALL, SIMILAR TO BROAN MODEL QTREOBOCQ2S, 75 CFM, 115/1/60, 0.3 AMPS, 0.4 SONES. INTERLOCK W/ LIGHT SWITCH.

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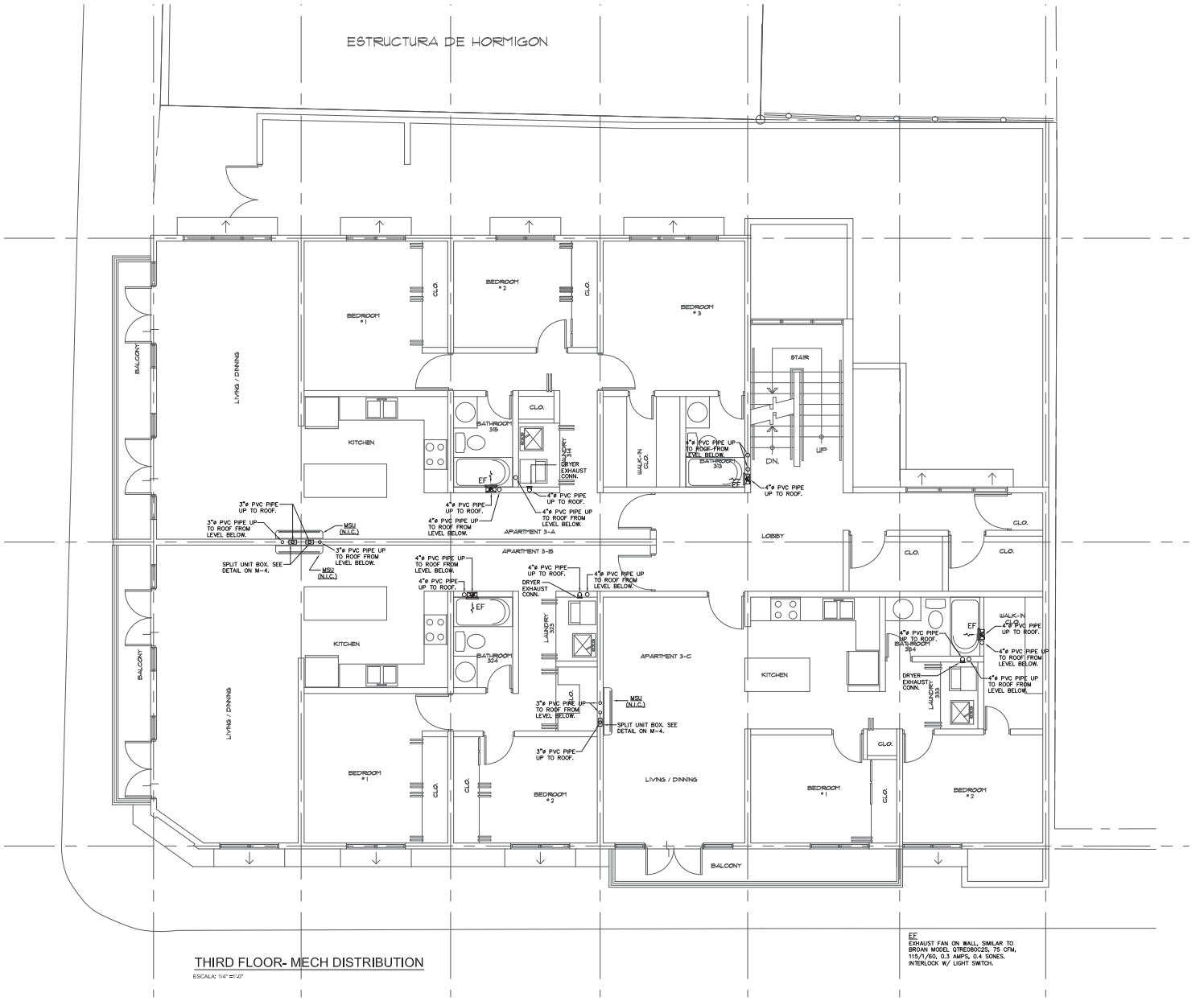
SECOND FLOOR
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-2 |
| DATE 15/05/2019 | |




THIRD FLOOR- MECH DISTRIBUTION

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

EF
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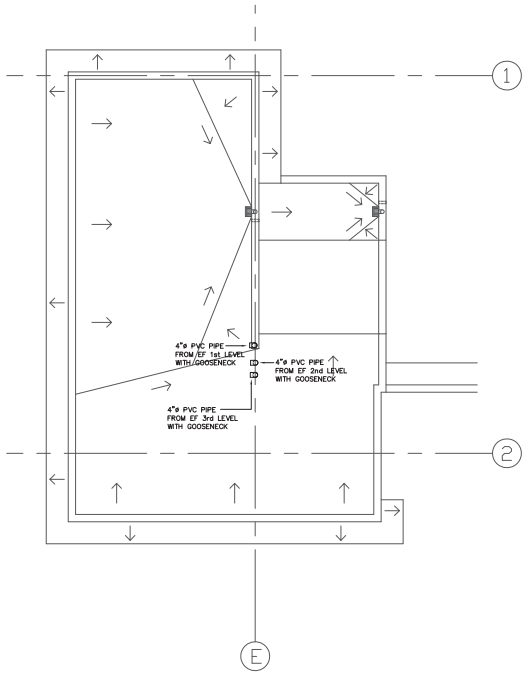
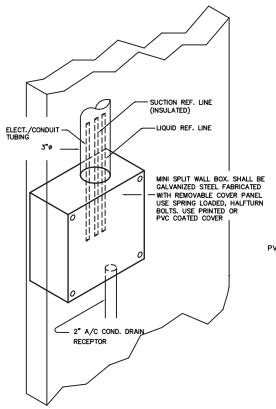
DRAWING TITLE
THIRD FLOOR
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED . | DRAWING |
| DRAWN | M-3 |
| DATE 15/05/2019 | |



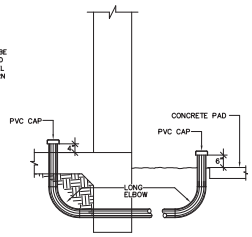

## STAIRS AND GAZEBO ROOF PLAN- PLUMBING DISTRIBUTION

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



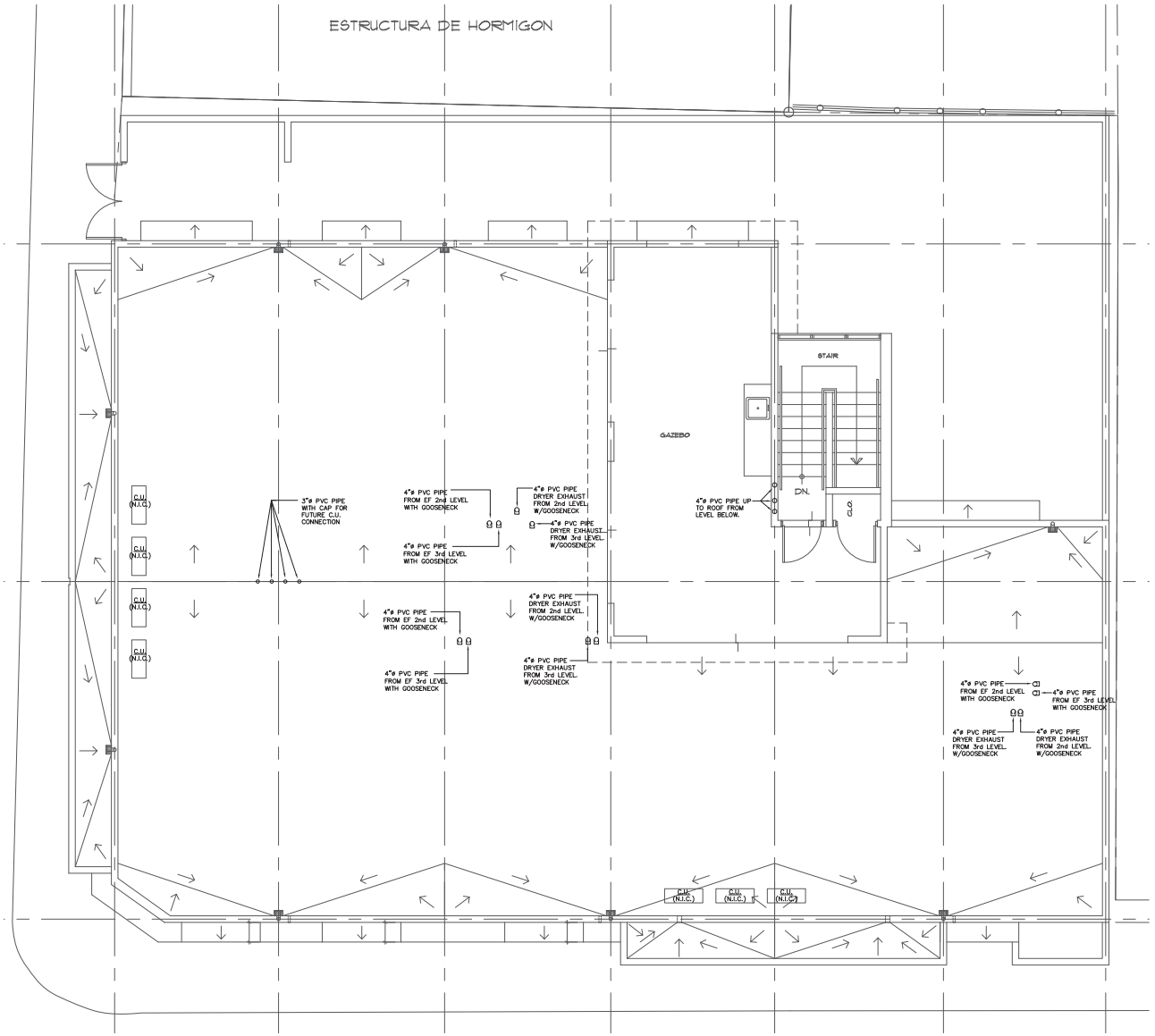

## WALL PANEL BOX DETAIL

NOT TO SCALE




## SPLIT UNIT PROVISION CONNECTION DETAILS

NOT TO SCALE




## ROOF PLAN- MECH DISTRIBUTION

ESCALA: 1/4" =1'-0"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BARRIO PUEBLO, COAMO, PUERTO RICO


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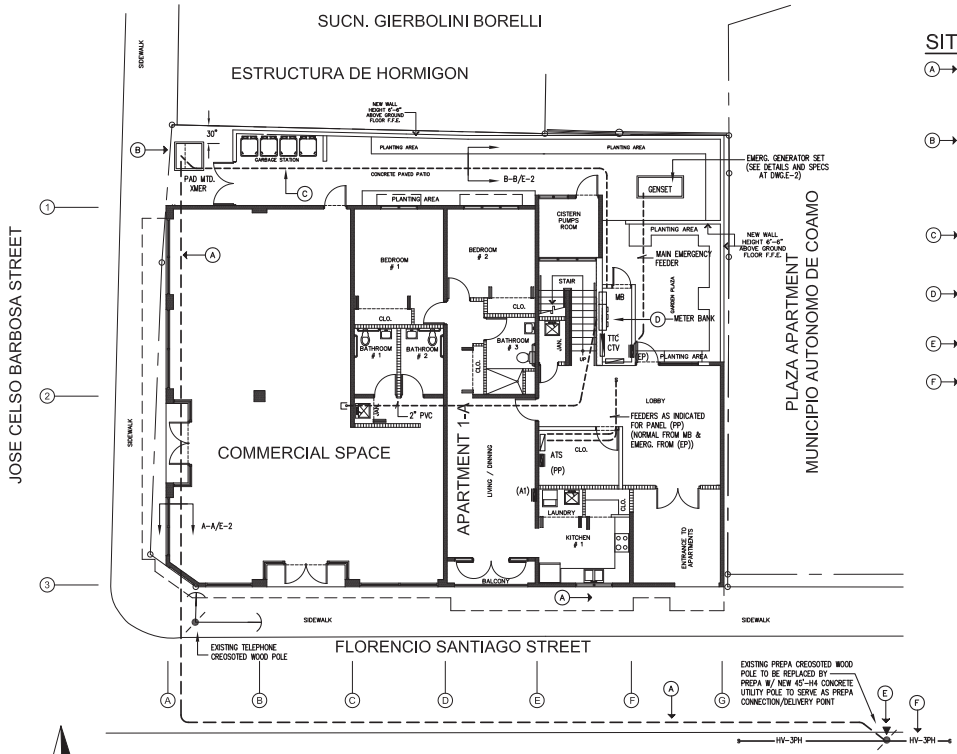
DRAWING TITLE

ROOF PLAN
MECH DIST.

| PROJECT | SHEET NO. |
|---|---|
| | OF |
| DESIGNED | DRAWING |
| DRAWN | M-4 |
| DATE 15/05/2019 | |

Yo, Francisco J. Maldi, Ingeniero, licencia #13847, 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que en ellos produzcan sin conocimiento o por negligencia por mi, por otro agente o empleado, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes, incluyendo, pero sin limitarse, a la terminación de la participación en los procedimientos de certificación profesional en la OGPe.


FJM Engineering, psc
Consulting Engineers
352 San Claudio St., PMB 367, San Juan, PR 00926
Tel: (787) 722-4641 / Fax: (787) 722-4705




## SITE LEGEND: (FOR THIS DRAWING ONLY)

(A) → PRIMARY FEEDER, ONE SINGLE CONDUCTOR, #2 AWG COPPER, 15KV, CROSSLINKED POLYETHYLENE INSUL. (TR-XLP), SHIELDED, PVC JACKET AND ONE #2 XHHW2 IN 2 1/2" PVC SCHED.40 COND. W/ 1-2 1/2" PVC SCHED.40 SPARE CONDUIT BOTH CONCRETE ENCASED AT 48" BELOW FINISHED GRADE PER P.R.E.P.A. STDS. URD-6-7. SEE SECTION A-A DETAIL AT DRAWING E-2.

(B) → LOW PROFILE P.R.E.P.A. APPROVED PAD MOUNTED TRANSFORMER 1PH, 7.62KV PRIMARY TO 120/240V SECONDARY, OIL IMMERSE SELF COOLING, 100KVA, RADIAL FEED TYPE WITH 200A, DEAD FRONT, ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK WITH ONE FAULT INDICATOR, 2-2 1/2% TAPS ABOVE/BELOW NOMINAL VOLTAGE, POLYMER LIGHTNING ARRESTER, STAINLESS STEEL ENCLOSURE AS PER P.R.E.P.A. STANDARDS URD-19,20,23 (TRANSFORMER WITH IMPPROVED LOSSES CHARACTERISTICS PER P.R.E.P.A.'S LATEST/D.O.E. REQUIREMENTS).

(C) → MAIN SECONDARY FEEDER CONSISTING OF: 2 SETS (3)#250 MCM XLP-90° & 1#2 XHHW-2 GROUND-2" PVC SCHED.40) AND 1-2" PVC SCHED.40 SPARE CONDUIT. SEE SECTION B-B DETAIL AT DRAWING E-2.

(D) → P.R.E.P.A. METER BANK 1PH-3W-S/N-120/240-500A-22KAIC MAIN BREAKER, GALVANIZED STEEL, RAINTIGHT/N3R.

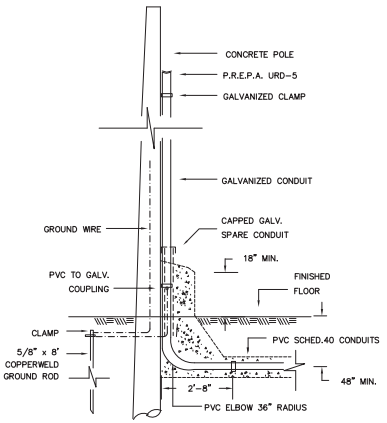
(E) → EXISTING P.R.E.P.A. CREOSOTED WOOD POLE TO SERVE AS P.R.E.P.A. CONNECTION/DELIVERY POINT, TO BE REPLACED BY P.R.E.P.A. WITH NEW 45'-H4 CONCRETE UTILITY POLE W/ P.R.E.P.A. STANDARDS URD-2A-4-5, CP-C1, T-1, K-1, STL-10 BY P.R.E.P.A. AT THIS CONTRACTOR'S EXPENSE.

(F) → EXISTING P.R.E.P.A. OVERHEAD LINE TO SERVE THIS PROJECT 3PH-13.2KV-3W-#1/0-ACSR.

LOCATION PLAN SCALE: 1=20,000
LAMBERT: X= 208114.3382 Y= 227234.8452

## ELECTRICAL SITE PLAN

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




P.R.E.P.A. STD. URD-4

N.T.S.

## PREPA: GENERAL NOTES

1- THESE DRAWINGS MUST COINCIDE WITH THE REGISTERED DRAWINGS AT THE "PERMITS AND REGULATION ADMINISTRATION" (ARPE).
2- PROJECT'S OWNER IS RESPONSIBLE TO OBTAIN ALL ENDORSEMENTS, PERMITS, AND RIGHT OF WAYS REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES BEFORE THE CONSTRUCTION BEGINS.
3- PROJECT'S OWNER IS RESPONSIBLE TO CONTRACT A LICENSED AND REGISTRERED ENGINEER TO INSPECT THE ELECTRICAL WORKS IN IN COMPLIANCE WITH LAW NO.7 OF JULY 19, 1985 (AS AMENDED), AND WITH PREPA'S "REGLAMENTO DE CERTIFICACION DE PLANOS DE PROYECTOS DE CONSTRUCCION ELECTRICA". OWNER IS RESPONSIBLE TO PROVIDE PRIVATE INSPECTOR'S INFO TO PREPA'S LOCAL OFFICE BEFORE THE CONSTRUCTION BEGINS.
4- ALL CONSTRUCTION SHALL BE DONE IN THOROUGH AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND CONSTRUCTION DRAWINGS. THE LATEST EDITION OF THE "NATIONAL ELECTRIC CODE" AND THE "NATIONAL ELECTRIC SAFETY CODE" SHALL BE FOLLOWED EXCEPT WHERE LOCAL REGULATIONS ARE MORE STRINGENT, IN WHICH CASE, LOCAL REGULATIONS SHALL GOVERN. ELECTRICAL CONSTRUCTION AND EQUIPMENT SHALL BE IN COMPLIANCE WITH LATEST PREPA, IEEE, NFPA, NEMA, AND ANSI REGULATIONS AND STANDARDS.
5- CONTRACTOR IS NOT AUTHORIZED TO MAKE ANY CHANGES TO THE ELECTRICAL DESIGN. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE DESIGNER OR PROJECT'S PRIVATE INSPECTOR ANY DEVIATION THEREFROM, INCLUDING THOSE ARISING FROM DRAWINGS AND SPECS INTERPRETATION, WORKS EXECUTION, OR FIELD CONDITIONS.
6- CONTRACTOR MUST INFORM PREPA'S DISTRIBUTION ENGINEERING DEPARTMENT (LOCAL OFFICE) WHEN THE CONSTRUCTION WILL START FIFTEEN (15) DAYS IN ADVANCED MINIMUM, BY SUBMITTING THE DOCUMENT "NOTIFICACION DE COMIENZO DE OBRAS ELECTRICAS".
7- PROJECT'S PRIVATE INSPECTOR AND THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE TO COORDINATE A PRE-CONSTRUCTION MEETING WITH PREPA'S LOCAL OFFICE BEFORE THE CONSTRUCTION BEGINS.
8- ALL WORK ON EXISTING PREPA ENERGIZED LINES, INCLUDING FINAL CONNECTION, SHALL BE DONE BY PREPA AT CONTRACTOR EXPENSES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT, MATERIALS, AND LABOR. CONTRACTOR IS RESPONSIBLE TO REQUEST A COST ESTIMATE FROM PREPA, WHICH SHALL BE VALID FOR A PERIOD OF THREE (3) MONTHS FROM EXPEDITION DATE.
9- ALL WORK ON/THRU EXISTING PREPA RIGHT OF WAYS IS TERMINALLY PROHIBITED UNLESS FULLY AUTORIZED IN WRITTEN BY PREPA.
10- PREPA WILL NOT APPROVE NEITHER WILL ENERGIZE ANY PROJECT WHICH PROVED INVADING EXISTING RIGHT OF WAYS OR NOT COMPLYING WITH SAFETY CLEARANCE REQUIREMENTS.
11- METER SHALL BE, BY ALL MEANS, ACCESIBLE TO PREPA PERSONNEL.
12-CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL UNDERGROUND TRENCHING THRU PUBLIC STREETS, AVENUES, AND HIGHWAYS WITH "CENTRO DE EXCAVACIONES DE LA COMISION DE SERVICIO PUBLICO" ACCORDING TO EXECUTIVE ORDER OE-1997-42.

## PREPA: MATERIALS

1- ELECTRICAL EQUIPMENT SHALL BE CONSTRUCTED ACCORDING TO IEEE, ANSI, NEMA, AND ASTM STANDARDS.
2- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH PREPA'S "DISTRIBUTION DEPARTMENT" THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS BE APPROVED BY PREPA. FOR ANY NON-COMPLYING EQUIPMENT OR MATERIALS PREPA PRESERVES ITS RIGHT TO REJECT OR NOT ACCEPT SUCH EQUIPMENT.
3- WITHIN ONE MILE OF SEA SHORE ALL ELECTRICAL EQUIPMENT AND MATERIALS, INCLUDING TRANSFORMERS AND TRANSCLOSURES, SHALL BE STAINLESS STEEL (ALUMINUM CONST. FOR METER SOCKETS AND METER BANKS IS APPROVED). FEEDER RISERS AT POLES SHALL BE PVC SCHED.80 OR FIBERGLASS AS APPROVED BY P.R.E.P.A.
4- FOR PRIMARY UNDERGROUND SYSTEMS, PREPA APPROVED CABLE TERMINATIONS (STRESS CONES) SHALL BE USED, 15KV RATING FOR DISTRIBUTION SYSTEMS AND 46KV FOR 38KV LINES.
5- FOR PRIMARY OVERHEAD SYSTEMS, PREPA APPROVED POLYMER (SILICON RUBBER) INSULATORS SHALL BE USED, 15KV RATING FOR DISTRIBUTION SYSTEMS AND 46KV FOR 38KV LINES.
6- TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT OR APPARATUS WHICH WILL BE HANDLED-TO OR TRANSFER TO PREPA AS PROPIETOR SHALL BE PROPERLY TAG OR IDENTIFIED WITH A PROPERTY NO. WHICH WILL BE SUPPLIED BY PREPA'S DIST. DEPARTMENT LOCAL OFFICE.

## PREPA: SPECIAL NOTES

1- PREPA WILL NOT ENERGIZE THE FINAL ELECTRICAL WORK UNTIL ALL REQUIRED RIGHT OF WAYS PER PREPA'S "REGLAMENTO DE SERVIDUMBRES" ARE DULY CEDED AND CERTIFIED BY PREPA'S LEGAL DIVISION. THIS NOTE APPLIES TO RIGHT OF WAYS WITHIN AND OUTSIDE THE BOUNDARIES OF THE PROJECT.
2- CONTRACTOR SHALL COORDINATE WITH PREPA'S LOCAL METERING DEPARTMENT OFFICE "Oficina de Irregularidades y Consumo de Energia Electrico (ICE) – Region Ponce" BOTH AVAILABILITY OF METERING EQUIPMENT AND MATERIALS TO BE SUPPLIED BY PREPA AND THE PROPOSED LOCATION OF SUCH EQUIPMENT.
3- THERE SHALL NOT BE WATER, NOR SEWAGE PIPE LINES OR OTHER UTILITIES UNDER THE FLOOR OF SUBSTATIONS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT OR APPARATUS.
4- PROJECT'S OWNER SHALL CONTRIBUTE/PAY PREPA THE FOLLOWING:
■ THE SUM OF $ 1,100.00 FOR IMPROVEMENTS REQUIRED IN THE LOCAL ELECTRICAL DISTRIBUTION SYSTEM.
☐ THE ELECTRICAL IMPROVEMENTS REQUIRED PER PREPA'S "EVALUACION DE PROYECTO" FROM –
OWNER'S CONTRIBUTION IS DETERMINED ACCORDING TO PROJECT'S KVA ELECTRICAL LOAD AND LATEST "REGLAMENTO PARA DETERMINAR Y COBRAR LAS APORTACIONES DE PERSONAS O INSTITUCIONES EN PROYECTOS DE DESARROLLO".

## PREPA: SYSTEMS

1- CONTRACTOR IS RESPONSIBLE TO CARRY OUT ALL TESTS FOR ALL PRIMARY AND SECONDARY CABLES OF UNDERGROUND SYSTEMS. CABLE TESTS SHALL BE IN COMPLIANCE WITH PREPA STANDARDS AND RESULTS SHALL BE WITHIN PREPA GUIDELINES. TESTS SHALL BE COORDINATED WITH PREPA'S INSPECTION DEPT. LOCAL OFFICE.
2- PRIMARY CABLES FOR UNDERGROUND SYSTEMS SHALL BE PROPERLY INSTALLED THRU PULLING EYE OR BASKET GRIP METHODS, MAKING SURE THAT CABLE MAXIMUM TENSIONS ARE NOT EXCEEDED. CABLES SHALL BE PROTECTED FROM ABRASIONS AND MOISTURE WHEN STORAGED AND AT TIME OF INSTALLATION.
3- ALL COVERS FOR MANHOLES TO BE INSTALLED IN GREEN AREAS SHALL BE PROVIDED WITH A REINFORCED CONCRETE PAD PER PREPA STANDARD URD-52.
4- TRENCHING FOR UNDERGROUND SYSTEMS MUST BE INSPECTED BY PREPA PERSONNEL PRIOR TO BE COVERED AND COMPACTED. TRENCHING THRU VEHICULAR DRIVEWAY SHALL BE CONCRETE ENCASED PER PREPA STANDARDS, MINIMUM CLEARANCE FROM OTHER UTILITIES SHALL BE THIRTEEN INCHES (13").
5- CONTRACTOR SHALL SUPPLY ONE SPARE FUSE FOR EACH PRIMARY FUSE HOLDER IN THE PROJECT.
6- GROUNDING MAT FOR ELECTRICAL SYSTEM SHALL BE CONSTRUCTED WITH EQUALS OR APPROVED EQUALS TO "HY GROUND" COMPRESSION CONNECTORS AND/OR CADWELL JOINTS (THERMO-WELD) WHERE APPLICABLE.
7- GROUNDING MAT FOR DISTRIBUTION SYSTEMS SHALL HAVE A MAX. RESISTANCE OF 10 OHMS. THE CONTRACTOR SHALL VERIFY THIS CONDITION IN THE FIELD. AN ELECTRODE GROUNDING ROD SHALL BE PROVIDED EVERY FOUR (4) POLES MINIMUM (OR 1000 LINEAL FEET MAX.) AND AT EACH TRANSFORMER LOCATION PER PREPA STANDARDS.
8- ALL SPARE CONDUITS SHALL BE PROVIDED WITH A 1/4"ϕ NYLON PULL WIRE (FISHWIRE).
9- POLE CONCRETE BASE SHALL BE PROVIDED W/ 2-4" PVC SCHED.40 SPARE CONDUIT SLEEVES PER PREPA STANDARDS. CONCRETE BASES MUST BE INSPECTED BY PREPA PERSONNEL DURING CONSTRUCTION.
10- CONCRETE BASES FOR THE INSTALLATION OF TRANSCLOSURE SHALL BE COORDINATED WITH PREPA AND EQUIP. SHOP DRAWINGS SO BE CONSTRUCTED TO PROVIDE SUFFICIENT CLEARANCE BETWEEN CONDUITS TERMINATION AND TRANSCLOSURE CABLE TERMINALS, FOR MINIMUM BENDING RADIUS REQUIRED BY SHIELDED CABLES AND STRESS CONES.

## DESIGNER'S CERTIFICATION

1-I certify that I am a licensed engineer or architect, menber of the collge of my profession and authorized by this project's owner to present these construction plans to PREPA.
2-In compliance with Law No. 7 of July 19, 1985, as amended, known as "Construction Plan's Certification Law", I certify that the electric plans of this project were designed following all codes, standards, norms and regulations approved by PREPA, Puerto Rico Permit Management Office (OGPe).
3-The information included within this document was designed/drawed by Eng.Carlos H. Urrutia, PR License No. 9852.

DESIGNER'S SIGNATURE

DESIGNER
Carlos H. Urrutia Ferrer
PR ENGINEER LIC. NO.
9852

CARLOS H. URRUTIA FERRER LIC. NO. 9852 PUERTO RICO

PUERTO RICO ELECTRICAL POWER AUTHORITY

ENDORSEMENT

PROJECT NAME: FLORENCIO SANTIAGO #26 – COAMO
PROJECT NUMBER: – LOAD (KVA): 100

| ENDORSED BY | REVISION |
|---|---|
| | 1 |
| | 2 |
| | 3 |
| DATE: | 4 |

1-PREPA endorses the electric design shown in these construction plans based on the certification presented by the designer in compliance with Law No. 7 of July 19, 1985, as amended.
2-PREPA does not assume responsability over the certified design. PREPA's endorsement does not relieve the designer from the professional responsability assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code; National Electric Safety Code; construction standards, norms and regulations from PREPA and other government agencies as well as federal and state laws ruling by the time construction begins.
3-This endorsement is valid for two years. If electrical works have begun during this year, with prior notification to PREPA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during a two year period, this endorsement will lose its validity.


SANCHEZ ARANA ARQUITECTOS
J-26 VILLA CAPARRA, GUAYNABO, PUERTO RICO 00966
787-235-3670 787-390-3788
lilisanchezarana@yahoo.com


REVISIONS

| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|

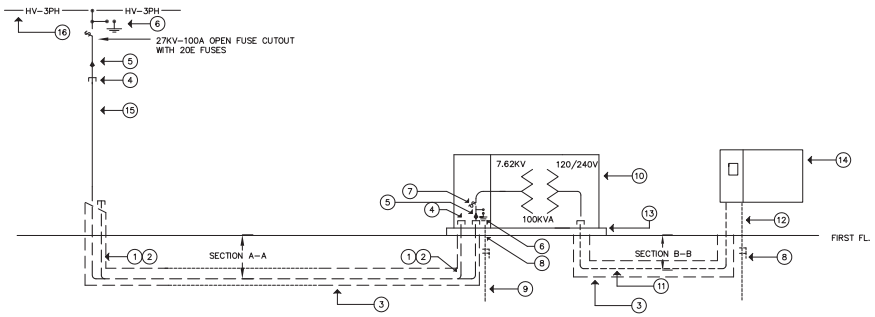
EDIFICIO DE USO MIXTO (COMERCIO Y VIVIENDA)
CALLE FLORENCIO SANTIAGO #26
BARRIO PUEBLO, COAMO
COMAO, PUERTO RICO


CARLOS H. URRUTIA FERRER, PE
consulting electrical engineer
Urb.Hill Manstons, BG1 Calle 68
San Juan, PR 00926-4681
telephone: 787-760-2718
email: urrutia.eng@gmail.com


Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE
ELECTRICAL SITE PLAN

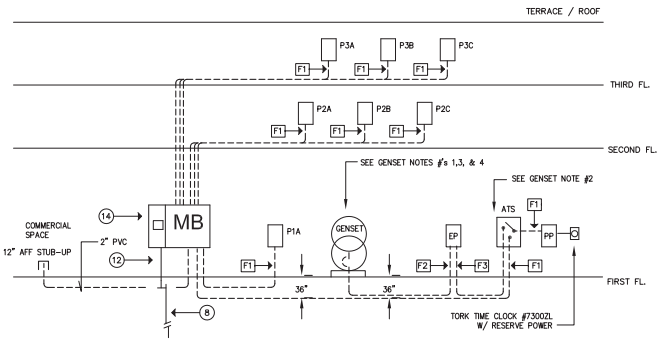
| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-1 |
| DATE | |




## ONE LINE DIAGRAM

N.T.S.

*USE PVC SCHED.40 FOR UNDERGROUND INSTALLATION, USE RIGID GALV. STEEL FOR STUB-UPS OR EXTERIOR EXPOSED




## BUILDING ONE LINE DIAGRAM

N.T.S.

## LEGEND:

1. PRIMARY FEEDER, 1/C-SINGLE CONDUCTOR, #2 AWG COPPER, 15KV., CROSSLINKED POLYETHYLENE INSULATION (TRXLP), SHIELDED, PVC JACKET AND ONE #2 XHHW2 IN 2" PVC SCHEDULE 40 CONDUIT.
2. 1-2" PVC SCHEDULE 40 EMPTY CONDUIT CAPPED AT BOTH ENDS.
3. 4" CONCRETE ENVELOPE.
4. INSULATED SEALING BUSHING, SIZE AND TYPE AS REQUIRED.
5. OUTDOOR TYPE PRE-FABRICATED STRESS CONE, 15KV, P.R.E.P.A. APPROVED TYPE.
6. 10KV LIGHTNING ARRESTERS, METAL OXIDE POLYMER COATED.
7. ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK (20E) WITH ONE FAULT INDICATOR.
8. 3/4"X 10'-0" COPPERWELD GROUND ROD (1 REQUIRED MIN.), PROVIDE GROUND CLAMP EQUAL OR APPROVED EQUAL TO "HY GROUND" COMPRESSION CONNECTORS AND/OR "CADWELL JOINTS".
9. #1/0 AWG BARE COPPER WIRE-1" RGMC FOR GROUNDING PURPOSE.
10. LOW PROFILE P.R.E.P.A. APPROVED PAD MOUNTED TRANSFORMER 1PH, 7.62KV PRIMARY TO 120/240V SECONDARY, OIL IMMERSE SELF COOLING, 100KVA, RADIAL FEED TYPE WITH 200A, DEAD FRONT, ELBOW LOAD TYPE DISCONNECT SWITCH WITH 1.5 TIMES NOMINAL TRANSFORMER CURRENT FUSE LINK WITH ONE FAULT INDICATOR, 2-2 1/2% TAPS ABOVE/BELOW NOMINAL VOLTAGE, POLYMER LIGHTNING ARRESTER, STAINLESS STEEL ENCLOSURE AS PER P.R.E.P.A. STANDARDS URD-19,20,23 (TRANSFORMER WITH IMPROVED LOSSES CHARACTERISTICS PER P.R.E.P.A.'S LATEST/D.O.E. REQUIREMENTS).
11. MAIN SECONDARY FEEDER CONSISTING OF: 2 SETS (3#250 MCM XLP-90° & 1#2 XHHW-2 GROUND-2" PVC SCHED.40) AND 1-2" PVC SCHED.40 SPARE CONDUIT. SEE SECTION B-B DETAIL AT DRAWING E-2.
12. 1#2 THWN-2 GROUND WIRE-1" RIGID GALVANIZED CONDUIT TO 3/4" x 10' COPPERWELD GROUND ROD AND CLAMP.
13. 8" CONCRETE PAD, SEE P.R.E.P.A. STANDARD URD-23.
14. P.R.E.P.A. METER BANK 1PH-3W-S/N-120/240-500A-22KAIC MAIN BREAKER, GALVANIZED STEEL, RAINTIGHT/N3R.
15. EXISTING P.R.E.P.A. CREOSOTED WOOD POLE TO SERVE AS P.R.E.P.A. CONNECTION/DELIVERY POINT, TO BE REPLACED BY P.R.E.P.A. WITH NEW 45'-H4 CONCRETE UTILITY POLE W/ P.R.E.P.A. STANDARDS URD-2A-4-5, CP-C1, T-1, K-1, STL-10 BY P.R.E.P.A. AT THIS CONTRACTOR'S EXPENSE.
16. EXISTING P.R.E.P.A. OVERHEAD LINE TO SERVE THIS PROJECT 3PH-13.2KV-3W-#1/0-ACSR.

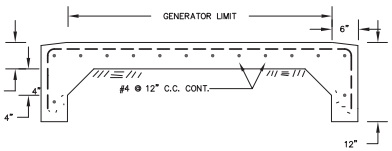
## GENERATOR NOTES:

1-DIESEL DRIVEN EMERGENCY GENERATOR 35 KW/ 35 KVA AT 1.0 POWER FACTOR - 1,800 RPM - 120/240 VOLTS - 1PH - 3W - S/N WITH CRITICAL TYPE MUFFLER, BATTERIES, BATTERY CABLES, 125 GALLONS DUAL WALL SUB-BASE FUEL TANK, FUEL LINE, FUEL PUMP, ENGINE MOUNTED INSTRUMENT'S PANEL W/ VOLTMETER, AMMETER, FREQUENCY METER & ALL ENGINE RELATED INSTRUMENTS. LOW OIL PRESSURE, HIGH TEMPERATURE AND OVER SPEED ALARMS AND SHUT DOWN, BATTERY CHARGER AND 2P - 175 AMPS OUTPUT BREAKER, EQUAL OR SIMILAR TO ONAN #DGHCB WITH WEATHER PROTECTIVE ENCLOSURE WITH MOUNTED SILENCER / EMERGENCY GENSET SHALL COMPLY WITH "EPA's" LATEST TIER EMISSIONS REQS.

2-AUTOMATIC TRANSFER SWITCH 100 AMPS. - 2P - 120/240V- 1PH - 3W - S/N WITH EXCERSIZER CIRCUIT, TIME DELAY AND UNDER VOLTAGE RELAYS, NEMA 1 ENCLOSURE, EQUAL OR SIMILAR TO ONAN OTIII SERIES.

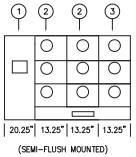
3-FUEL TANK SHALL BE FILLED-UP AT TIME OF PROJECT COMPLETION.

4-CONTRACTOR SHALL INCLUDE IN HIS SCOPE OF WORK AS PART OF THIS INSTALLATION ALL REGISTRATIONS AND PERMITS REQUIRED FOR LEGAL OPERATION, INCLUDING BUT NOT LIMITED TO P.R.E.P.A.'S "REGISTRO DE PLANTAS DE EMERGENCIA" AND "JUNTA DE CALIDAD AMBIENTAL" FUEL AND EMISSION FORMS.




## GENERATOR CONCRETE PAD STRUCTURAL DETAIL

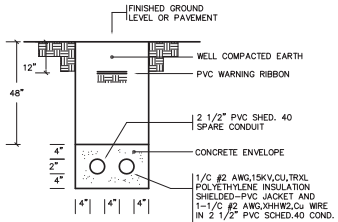
N.T.S.




## MB (METER BANK)

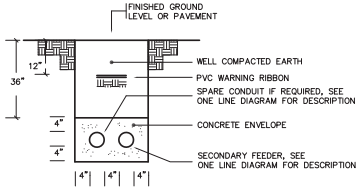
## MB LEGEND:

1. METER BANK MAIN BREAKER DEVICE 1PH-3W-S/N-120/240V-500A-22KAIC, GALVANIZED STEEL, RAINTIGHT/NEMA 3R.
2. THREE POSITION METER-BREAKER DEVICE 1PH-3W-S/N-120/240V-100A WITH 3-2P-100A BREAKERS FOR APART. PANELS, RAINTIGHT/N3R.
3. THREE POSITION METER-BREAKER DEVICE 1PH-3W-S/N-120/240V-200A WITH 3-2P-100A BREAKERS FOR APART. PANEL, COMMERCIAL SPACE PANEL, AND FOR PUBLIC AREAS PANEL (PP), RAINTIGHT/N3R.




## SECTION A-A

N.T.S.




## SECTION B-B

N.T.S.

## SECONDARY FEEDER SCHEDULE:

- F1 → TYPICAL APARTMENT PANEL FEEDER 3#2 & 1#6 GROUND-1 1/2" PVC
- F2 → PANEL (EP) FEEDER 3#2/0 & 1#6 GROUND-2" PVC & 1-1°C FOR CONTROL WIRING
- F3 → (ATS) FEEDER 3#2 & 1#6 GROUND-1 1/2" PVC & 1-1°C FOR CONTROL WIRING

### DESIGNER'S CERTIFICATION

1-I certify that I am a licensed engineer or architect, member of the collge of my profession and authorized by this project's owner to present these construction plans to PREPA.

2-In compliance with Law No. 7 of July 19, 1985, as amended, known as "Construction Plan's Certification Law", I certify that the electric plans of this project were designed following all codes, standards, norms and regulations approved by PREPA, Puerto Rico Permit Management Office (OGPe).

3-The information included within this document was designed/drawed by Eng.Carlos H. Urrutia, PR License No. 9852.

DESIGNER'S SIGNATURE

DESIGNER
Carlos H. Urrutia Ferrer
PR ENGINEER LIC. NO.
9852

CARLOS H. URRUTIA FERRER LICENSED ENGINEER LIC. NO. 9852 PUERTO RICO

### PUERTO RICO ELECTRICAL POWER AUTHORITY

ENDORSEMENT

PROJECT NAME: FLORENCIO SANTIAGO #26 - COAMO

PROJECT NUMBER: - LOAD (KVA): 100

| ENDORSED BY | REVISION |
|---|---|
| DATE: | 1 |
| | 2 |
| | 3 |
| | 4 |

1-PREPA endorses the electric design shown in these construction plans based on the certification presented by the designer in compliance with Law No. 7 of July 19, 1985, as amended.

2-PREPA does not assume responsability over the certified design. PREPA's endorsement does not relieve the designer from the professional responsability assumed with the certification of these project's plans. This endorsement relieves neither the builder nor private inspector from compliance with standing dispositions from: National Electric Code; National Electric Safety Code; construction standards, norms and regulations from PREPA and other government agencies as well as fedral and state laws ruling by the time construction begins.

3-This endorsement is valid for two years. If electrical works have begun during this year, with prior notification to PREPA, the endorsement will still be valid until work's completion. In case there is no certified electrical work during a two year period, this endorsement will lose its validity.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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
(COMERCIO Y VIVIENDA) #26
CALLE FLORENCIO SANTIAGO
BARRIO PUEBLO, COAMO
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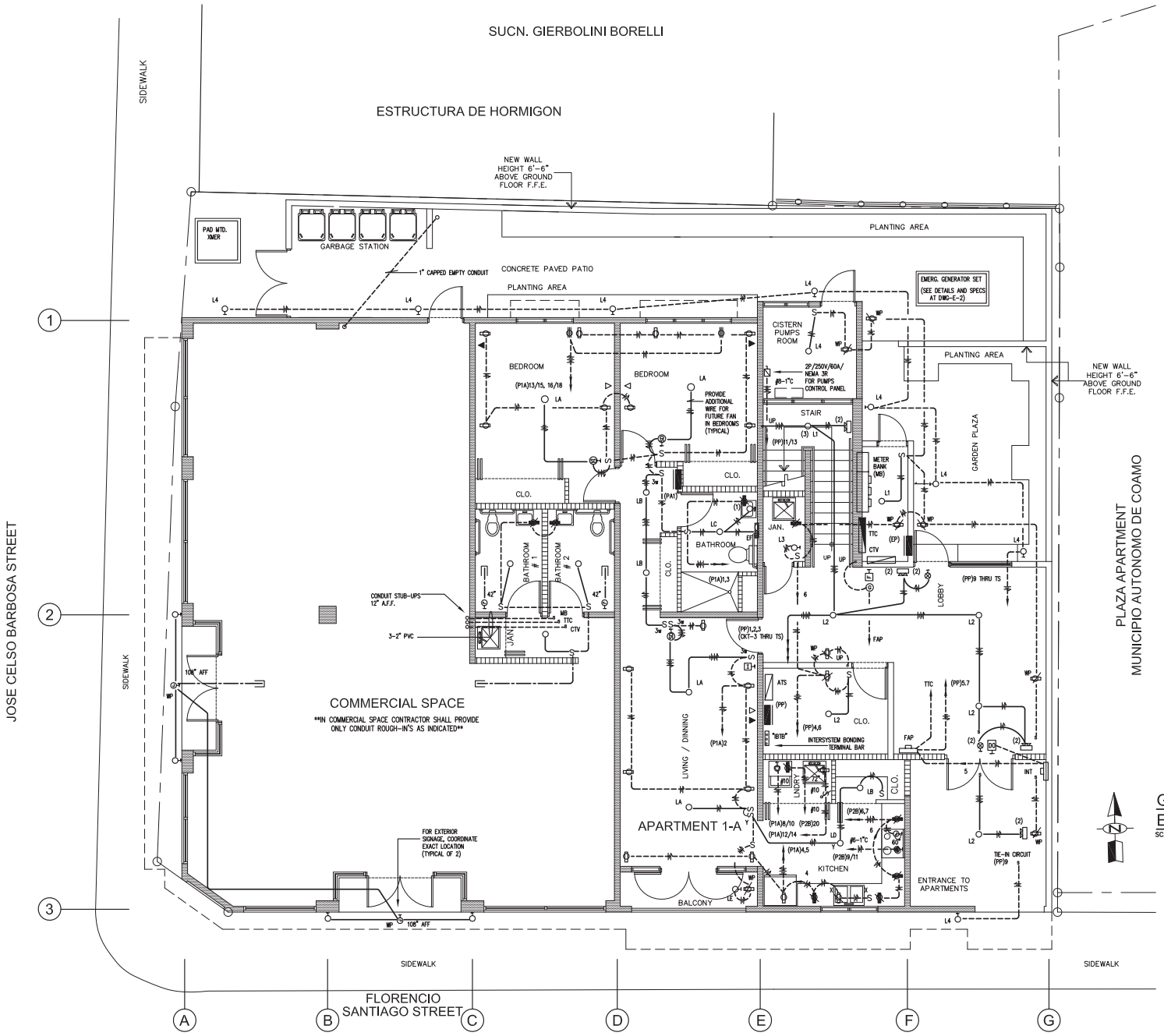
DRAWING TITLE
ONE LINE DIAGRAM

| PROJECT | SHEET NO. |
|---|---|
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-2 |
| DATE | |




## GROUND FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"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DRAWING TITLE
FIRST FL. ELECTRICAL PLAN

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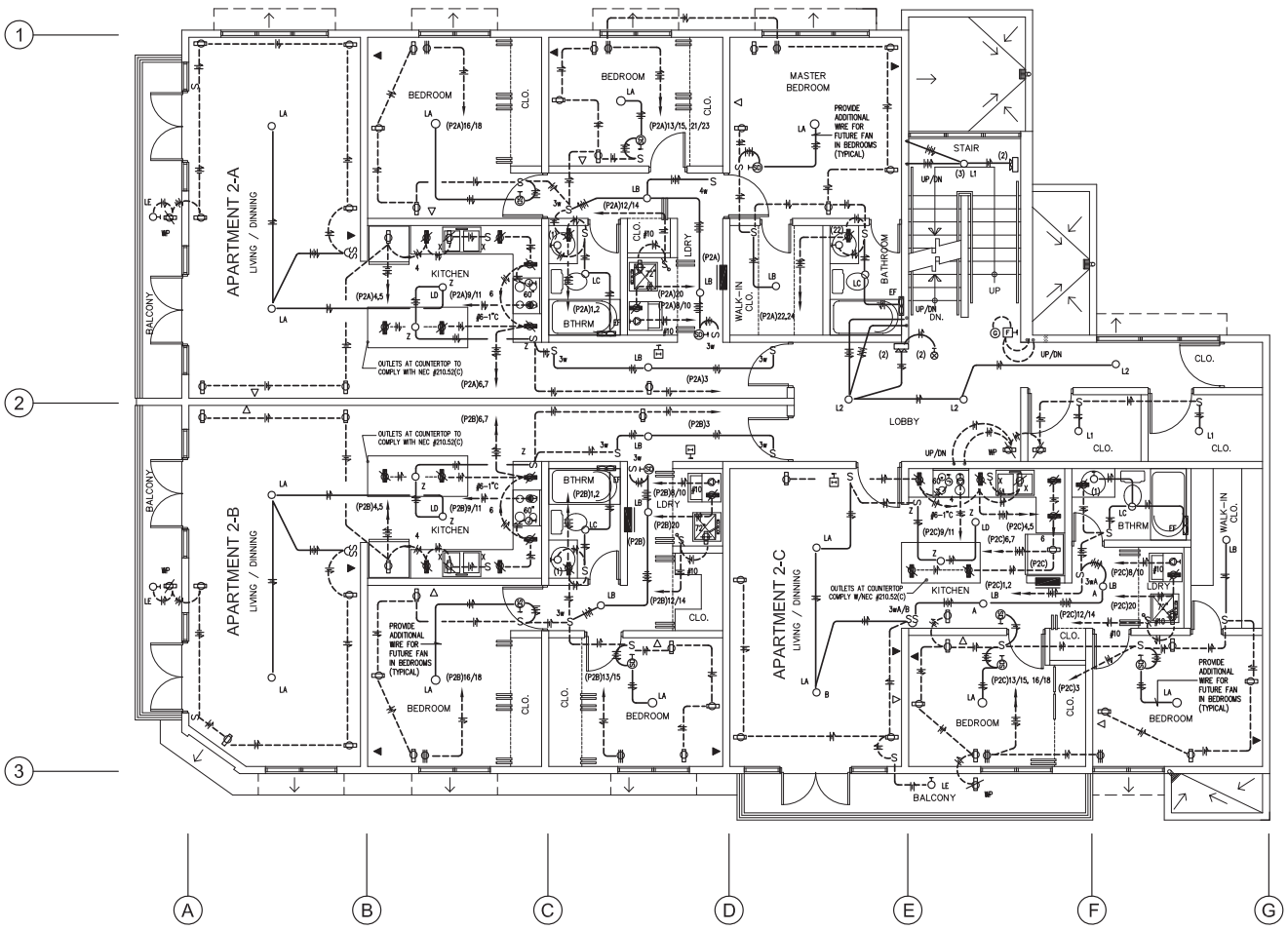
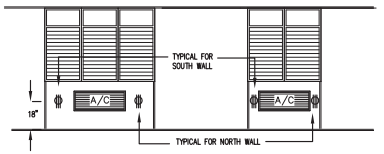
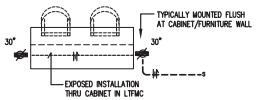
| DATE | |




TYPICAL A/C POWER OUTLET INSTALLATION DETAIL

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




TYPICAL COUNTERTOP ISLE OUTLET INSTALLATION DETAIL

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

SECOND FLOOR ELECTRICAL PLAN

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

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SECOND FL. ELECTRICAL PLAN

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| DRAWN | E-4 |
| DATE | |

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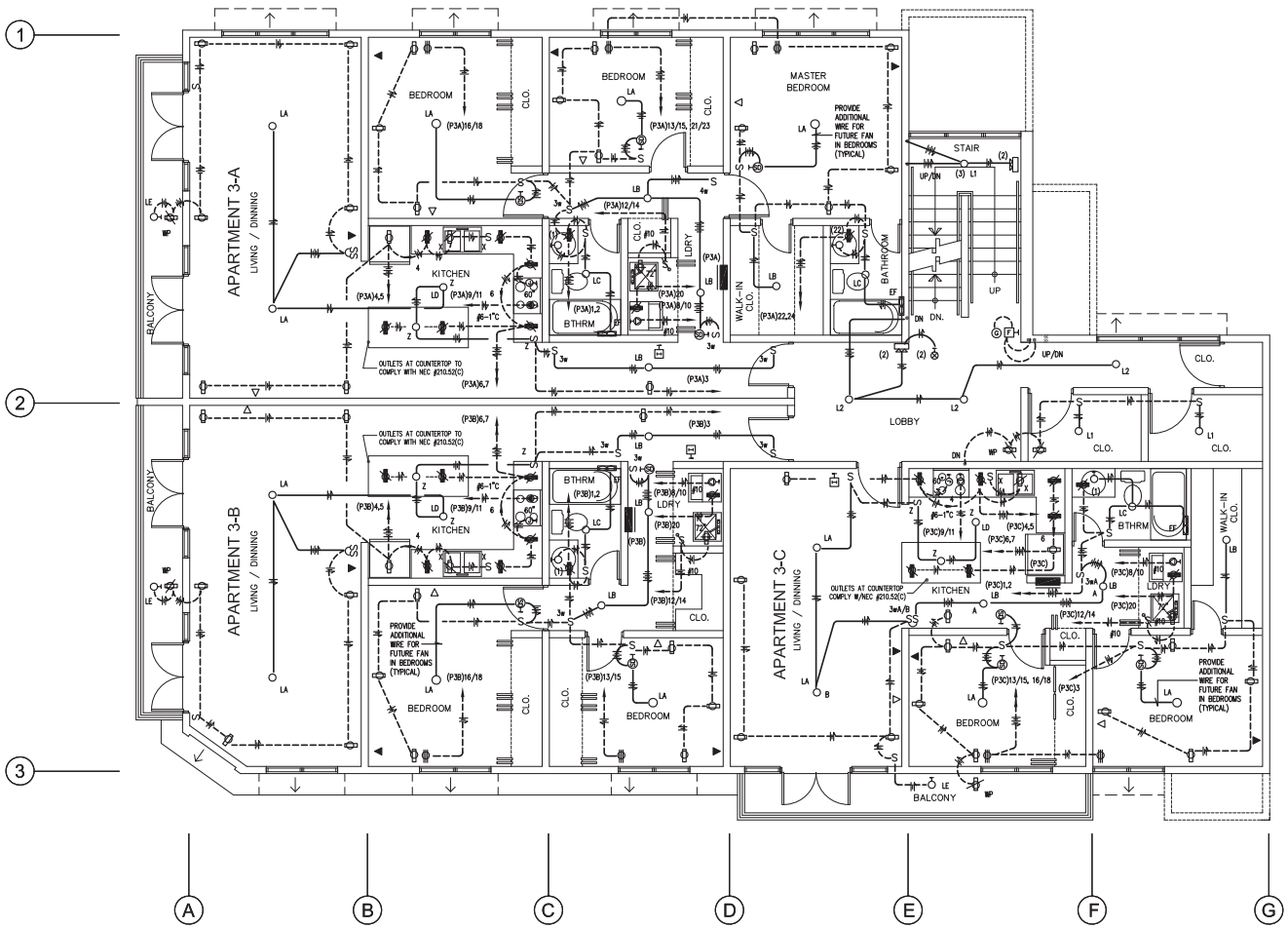
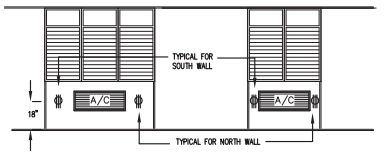
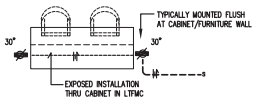



TYPICAL A/C POWER OUTLET INSTALLATION DETAIL

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




TYPICAL COUNTERTOP ISLE OUTLET INSTALLATION DETAIL

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

THIRD FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"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| SYM. | DESCRIPTION | BY | DATE |
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DRAWING TITLE

THIRD FL.
ELECTRICAL PLAN

| PROJECT | SHEET NO. |
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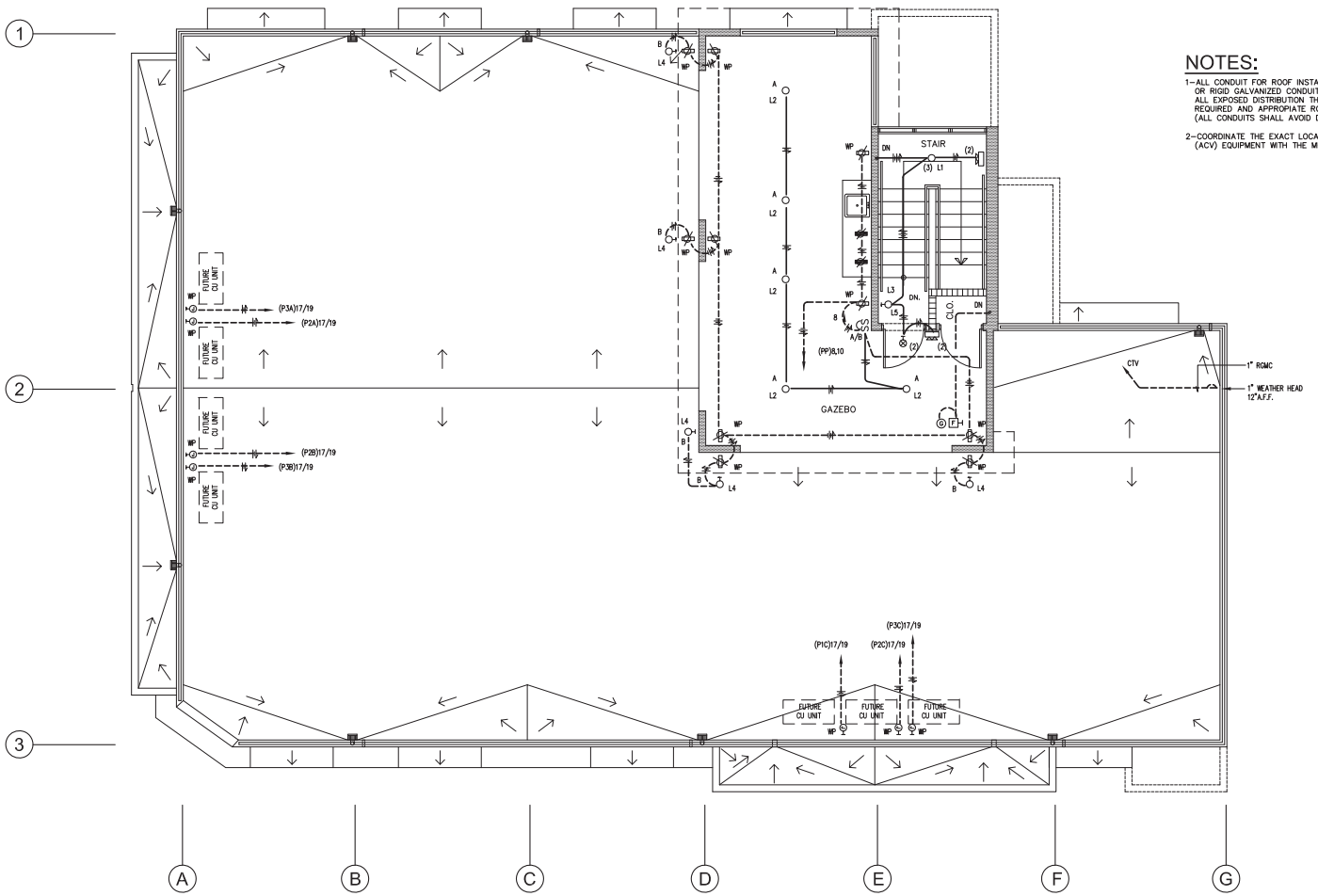
| DATE | |




ROOF
ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

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DRAWING TITLE
ROOF / TERRACE
ELECTRICAL PLAN

| PROJECT | SHEET NO. |
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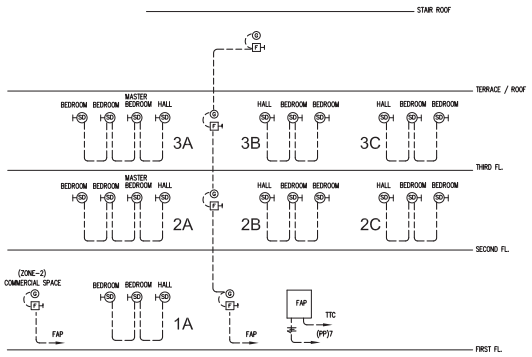
| | . OF |
| DESIGNED | DRAWING |
| DRAWN | E-6 |
| DATE | |

CARLOS H. URRUTIA FERRER INGENIERO LICENCIADO LIC. NO. 9852 PUERTO RICO




## FIRE ALARM RISER DIAGRAM AND APART. SMOKE ALARMS

N.T.S.

APT. FIRE ALARM SMOKE DETECTORS:
1-ALL CONDUIT 1/2" PVC MINIMUM 2-ALL APT. SMOKE DETECTORS FHA APPROVED TYPE FOR SERIES ACTIVATION 3-TYP. CONTROL WIRING AS REQUIRED FOR SERIES ACTIVATION.

## FIRE ALARM LEGEND:

FAP — LOW VOLTAGE TWO-ZONE SYSTEM FIRE ALARM CONTROL PANEL EQUAL OR SIMILAR TO EDWARDS 575IB MOUNTED AT 5'-0" A.F.F. (SURFACE MOUNTED)

F — NON-CODED FIRE ALARM STATION WALL MOUNTED EQUAL OR SIMILAR TO EDWARDS CAT. NO. 270-SPO MOUNTED AT 4'-0" A.F.F. WITH VANDALPROOF COVER MODEL STI1100.

G — FIRE ALARM AUDIBLE/VISUAL SIGNAL DEVICE WALL MOUNTED EQUAL OR SIMILAR TO EDWARDS CAT. NO. 8322B-002 MOUNTED AT 7'-0" A.F.F. (A.D.A. APPROVED).

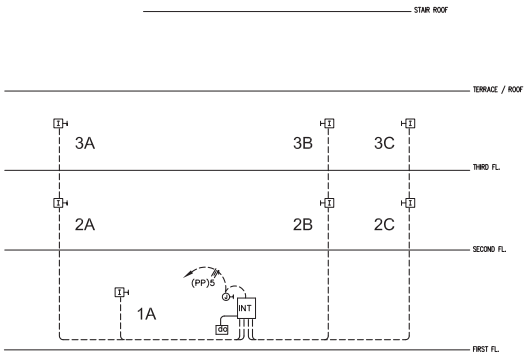
F/T — FIRE PROTECTION SYSTEM FLOW/TAMPER SWITCH CONTACT FURNISHED BY OTHERS BUT CONNECTED BY THIS CONTRACTOR.

## DESCRIPTION OF OPERATION:

OPERATION OF A PULL STATION, DETECTOR OR OTHER INITIATING DEVICE WILL CAUSE ALL ALARM SIGNALS TO SOUND. AUXILIARY CIRCUIT CONTACTS FOR FIRE DEPARTMENT SIGNALLING OR OTHER PURPOSES ARE PROVIDED. THE SIGNALS CONTINUE TO SOUND, UNTIL MANUALLY SILENCED. THE ACTIVATED STATION MUST BE RETURNED TO NORMAL CONDITION AND THE CONTROL UNIT RESET BUTTON SUBSEQUENTLY DEPRESSED TO RETURN THE UNIT TO NORMAL CONDITION. SMOKE DETECTORS AUTOMATICALLY RESET UPON DEPRESSION OF THE RESET BUTTON. IN THE EVENT OF BUILDING ELECTRICAL SUPLLY FAILURE, THE SYSTEM WILL AUTOMATICALLY SWITCH TO A SELF-CONTAINED EMERGENCY STANDBY BATTERY.

## FIRE ALARM NOTES:

1-CONDUITS SHALL BE 3/4" DIAMETER MINIMUM UNLESS OTHERWISE NOTED (PVC SCHED.40 FOR INTERIOR, RGMC FOR EXPOSED EXTERIOR).
2-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
3-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.
4-FIRE ALARM SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-72, "NATIONAL FIRE ALARM CODE".
5-FIRE ALARM SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA-70, "NATIONAL ELECTRICAL CODE", ART#760 "F.A. SYSTEMS".
6-FIRE PROTECTION SYSTEM FLOW SWITCHES FURNISHED BY THE MECH. CONTRACTOR SHALL BE CONNECTED TO THE FAP.




## INTERCOM SYSTEM RISER DIAGRAM

N.T.S.

## INTERCOM SYSTEM LEGEND:

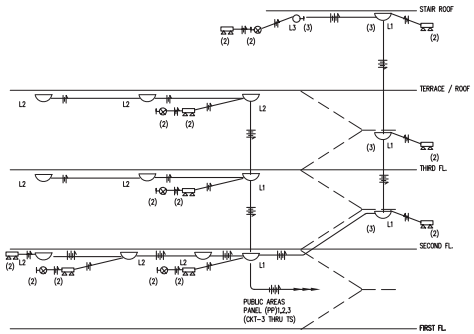
INT — VESTIBULE CENTRAL ENTRANCE PANEL VANDALPROOF EQUAL OR SIMILAR TO FARFISA SERIES TM MODEL BTC-T2M08-337C

T — APARTMENT INTERCOM STATION EQUAL OR SIMILAR FARFISA MODEL BTC-PV100 MOUNTED AT 48" A.F.F.

dd — DOOR OR GATE RELEASE MODEL PO001.

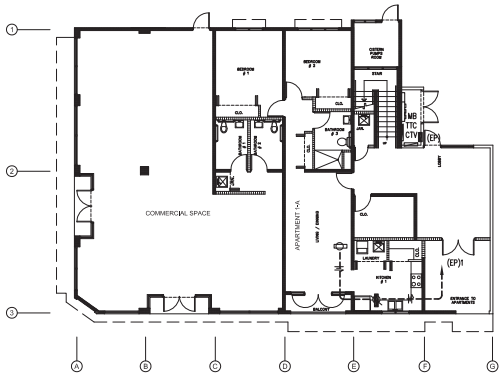
## INTERCOM SYSTEM NOTES:

1-CONDUITS SHALL BE 3/4" DIAMETER MINIMUM UNLESS OTHERWISE NOTED (PVC SCHED.40 FOR INTERIOR, RGMC FOR EXPOSED EXTERIOR).
2-INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMENDATION.
3-CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS AND/OR EQUIPMENT REQUIRED FOR A COMPLETE WORKING SYSTEM.

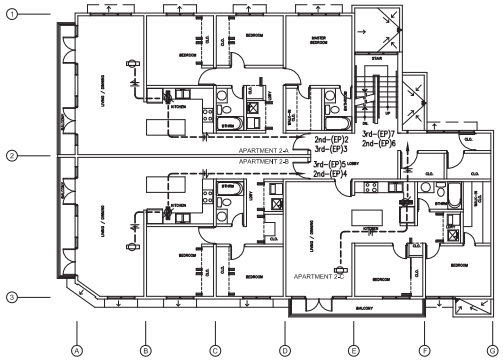



## STAIR LIGHTING RISER DIAGRAM

N.T.S.




1st FLOOR



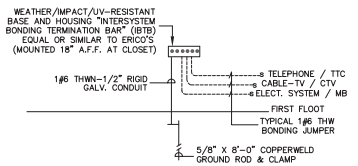

TYP. FOR 2nd & 3rd FLOORS

NOTES:

1-ALL EMERGENCY RECEPTACLES SHALL BE "BROWN" COLORED AND IDENTIFIED AT PLATES AS "OUTLET IN EMERGENCY CIRCUIT ONLY".

## EMERGENCY DISTRIBUTION FOR APARTMENTS

SCALE: 3/32" = 1'-0"




## INTERSYSTEM BONDING TERMINATION DETAIL (IBTB)

N.T.S.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REVISIONS

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DRAWING TITLE
ELECTRICAL RISER DUAGRAMS

| PROJECT | SHEET NO. |
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| DESIGNED | DRAWING |
| DRAWN | E-7 |
| DATE | |

## SYMBOL LEGEND:

| | |
|---|---|
| ○ | CEILING LIGHTING OUTLET WITH 3/8" FIXTURE STUD (PROVIDE BLANK PLATE IF LUMINAIRE IS NOT SPECIFIED). |
| (F) | OUTLET "CEILING FAN RATED" WITH 3/8" FIXTURE STUD. |
| ⊙ | RECESSED CEILING LIGHTING FIXTURE SELECTED BY ARCHITECT. |
| | STEPLIGHTING OUTLET/BACKBOX WITH 3/8" FIXTURE STUD, 18" A.F.F. |
| | TAMPER RESISTANT DUPLEX RECEPTACLE 20A–125V–GROUNDING TYPE, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT G.F.C.I. TYPE. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. AND G.F.C.I. TYPE. |
| | SAME AS ABOVE BUT SPLIT–WIRED, FOR SWITCH CONTROL. |
| | DRYER RECEPTACLE 30A–250V–3W–GD. TYPE, 2'–6" A.F.F. |
| | WATER HEATER RECEPTACLE 30A–250V–3W–GD. TYPE, 2'–6" A.F.F. |
| | OVEN RECEPTACLE 50A–250V–3W–GD. TYPE, 2'–6" A.F.F. (OR FLOOR STUB–UP). |
| | METER SOCKET. |
| S | SINGLE POLE SWITCH 20A–120V, 4'–0" A.F.F. |
| 3W S | SAME AS ABOVE BUT THREE (3) WAY SWITCH. |
| 4W S | SAME AS ABOVE BUT FOUR (4) WAY SWITCH. |
| | SLIDE DIMMER SWITCH 600W–125V, 4'–0" A.F.F., SPECIFICATION GRADE, EQUAL OR SIMILAR TO LUTRON'S NOVA THIN SERIES (LED DIMMABLE). |
| 3W | SAME AS ABOVE BUT THREE (3) WAY SWITCH. |
| | DOUBLE POLE SWITCH WITH PILOT LIGHT 30A–250V, 4'–0" A.F.F. |
| F $ | LIGHT AND FAN DUAL SLIDE–TO–OFF DIMMER ,125V, AT 4'–0" A.F.F. EQUAL TO LUTRON'S SKYLARK SERIES (S2–LFSQ–WH). |
| | CONDUIT THRU HUNG CEILING, WALLS OR EXPOSED THRU JOIST. |
| | CONDUIT IN FLOOR SLAB OR WALLS. |
| | CONDUIT RUN THRU CEILING SLAB OR WALLS. |
| | RUN TO PANELBOARD; TICKS INDICATE # OF WIRES AND ARROWS # OF CIRCUITS (HOT–NUTRAL–GROUND MINIMUM). |
| (SD) H (SD) | CEILING OR WALL MOUNTED SMOKE DETECTOR, FHA APPROVED TYPE, W/ BATTERY BACK–UP, 7'–6" A.F.F. IF WALL MOUNTED, FOR SERIES CON. |
| | LIGHTING AND/OR POWER PANELBOARD, SEE PANEL SCHEDULE. |
| J | JUNCTION BOX IN HUNG CEILING OR AS NOTED. |
| J H | WALL MOUNTED JUNCTION BOX, HEIGHT AS INDICATED ON DWGS. |
| | FLOOR BOX FLUSH WITH FLOOR WATERTIGHT WITH COVER PLATE AND ALL REQUIRED FITTINGS (CAST–IRON FOR WATER–TIGHTNESS ROUND OR RECTANGULAR WITH WITH BRUSHED BRASS COVER AS REQUIRED SIMILAR TO WALKER CAT.NO. SERIES 880. |
| H | WALL LIGHTING OUTLET WITH 3/8" FIXTURE STUD, 7'–0" A.F.F. UNLESS OTHERWISE INDICATED (PROVIDE BLANK PLATE IF LUM IS NOT SPECIFIED). |
| EF | EXHAUST FAN (BY OTHERS) CONNECTED BY THIS CONTRACTOR, EXACT LOCATION PER MECHANICAL DRAWINGS. |
| | HEAVY DUTY SAFETY SWITCH. SIZE, TYPE AND LOCATION AS INDICATED IN DRAWINGS (FUSIBLE WHEN INDICATED). |
| | FRACTIONAL HORSEPOWER MANUAL STARTER WITH OVERLOAD RELAY, 115/230V, 4'–6" A.F.F. AND NEMA I ENCLOSURE WHEN INDOORS. |
| | CABLE T.V. OUTLET, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| | TELEPHONE OUTLET, 1'–6" A.F.F. |
| | SAME AS ABOVE BUT AT 3'–6" A.F.F. |
| WP | DENOTES WEATHER PROOF. |
| GFI | DENOTES "GROUND FAULT CIRCUIT INTERRUPTER" PROTECTION. |
| "E" | DENOTES EXISTING FACILITY TO REMAIN OR BE RE–USED. |
| "RE" | DENOTES EXISTING FACILITY TO BE RELOCATED AS INDICATED. |
| "ER" | DENOTES EXISTING FACILITY TO BE REMOVED OR RELOCATED. |
| | EXISTING CONDUIT RUN THRU CEILING, FLOOR OR WALLS TO REMAIN OR BE REWIRED WITH NEW CABLE AS INDICATED. |
| | POWER RECEPTACLE 20A–250V–3W–GD. TYPE, 18" A.F.F. OR AS REQUIRED FOR A/C UNIT (OUTLET TO BE READILY ACCESIBLE AT SIDE OR BELOW UNIT, COORD. W/ ARCH.) |
| | SAME AS ABOVE 250V–30A–3W–GROUNDING TYPE. |
| H | CEILING OR WALL JUNCTION BOX 2"x 4" FOR AUDIO/VIDEO SYSTEM, SIZE OF BOX AND HEIGHT AS OTHERWISE INDICATED: S1–2"x 4" AT 7'–6" A.F.F. S2–4"x 4"x 3" AT 5'–0" A.F.F. S3–2"x 4" "FS" BOX AT 6" ABOVE GROUND LEVEL W/ WEATHER PROOF PLATE. |
| M V I O H | INTERCOM SYSTEM DEVICES, REFER TO INTERCOM SYSTEM LEGEND AT DRAWING E–7. |

## PANEL SCHEDULE:

| PANEL DESIG. | DESCRIPTION | MAIN AMPS. | CIRC. NO. | L O A D | BREAKER POLE | BREAKER FRAME | BREAKER TRIP | |
|---|---|---|---|---|---|---|---|---|
| (P1A) (P2A) (P2B) (P2C) (P3A) (P3B) (P3C) TYP. OF 7 UNITS | ___PANELBOARD @_LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V ___SURFACE @_FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D @_QO___NQOD___NEHB___I–LINE *1–ONLY AT (P2A)/(P3A) SPACE AT OTHERS | 100A M.L.O. | 1 | BATHROOM RECEPTACLE | 1 | AFCI | 20 | |
| | | | 2,3 | LIGHTING | 1 | AFCI | 20 | |
| | | | 4–7 | SMALL APPLIANCES | 1 | AFCI | 20 | |
| | | | 8/10 | DRYER | 2 | QO | 30 | |
| | | | 9/11 | RANGE | 2 | QO | 50 | |
| | | | 12/14 | WATER HEATER | 2 | QO | 30 | |
| | | | 13/15 | A/C UNIT | 2 | QO | 20 | |
| | | | 16/18 | A/C UNIT | 2 | QO | 20 | |
| | | | 17/19 | A/C MINI–SPLIT SYSTEM | 2 | QO | 20 | |
| | | | 20 | WASHING MACHINE | 1 | AFCI | 20 | |
| | | | 21/23 | A/C UNIT | 2 | QO | 20 | *1 |
| | | | 22 | BATHROOM RECEPTACLE | 1 | AFCI | 20 | *1 |
| | | | 24 | LIGHTING | 1 | AFCI | 20 | *1 |
| | | | 25–30 | SPACE | 1 | QO | – | |
| (PP) | @_PANELBOARD___LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V @_SURFACE___FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D ___QO @_NQOD___NEHB___I–LINE | 100A M.L.O. | 1,2,3 | STAIR/LOBBY/EMERG. LIGHTING | 1 | QOB | 20 | |
| | | | 4 | STORAGE LIGHTING | 1 | QOB | 20 | |
| | | | 5 | INTERCOM SYSTEM | 1 | QOB | 20 | |
| | | | 6 | EXTERIOR RECEPTACLE | 1 | QOB | 20 | |
| | | | 7 | FIRE ALARM PANEL | 1 | QOB | 20 | |
| | | | 8,10 | ROOF GAZEBO LIGHTING | 1 | QOB | 20 | |
| | | | 9 | EXT./PLAZA LIGHTING THRU TS | 1 | QOB | 20 | |
| | | | 11/13 | WATER PUMPS CONTROL PANEL | 2 | QOB | 50 | |
| | | | 12,14 | SPARE | 1 | QOB | 20 | |
| | | | 15–20 | SPACE | 1 | QOB | – | |
| (EP) | @_PANELBOARD___LOADCENTER ___3PH @_1PH___2W @_3W___4W @_S/N___120V @120/240V ___120/208V___277/480V ___SURFACE @_FLUSH @_GRD.BUS___ISO.GRD.BUS EQUAL/SIMILAR TO SQUARE D ___QO @_NQOD___NEHB___I–LINE | 225A M.L.O. | 1–7 | APARTMENT CIRCUITS | 1 | QOB | 20 | |
| | | | 8/10 | PANEL (PP) | 2 | QOB | 100 | |
| | | | 9,11,12 | SPACE | 1 | QOB | – | |

## LUMINAIRE SCHEDULE:

| DESIG. | DESCRIPTION | LAMPS | MANUFACTURER | REMARKS |
|---|---|---|---|---|
| L1 | ARCHITECTURAL CEILING MOUNTED POLYCARBONATE OPAL LENS 13.5" DIAMETER ROUND, WHITE FINISH | 16W 1500Lm 120V 4000'K | VANDALITE SQUR16wLED/O/W/120V | 1, 2 |
| L2 | ARCHITECTURAL CEILING MOUNTED POLYCARBONATE OPAL LENS 13.5" DIAMETER ROUND, WHITE FINISH | 23W 2100Lm 120V 4000'K | VANDALITE SQUR16wLED/O/W/120V | 1, 2 |
| L3 | LED 6"–ROUND UTILITY SURFACE POLYCARBONATE DIFFUSER, CEILING OR WALL MTD., WHITE FINISH | 13W 600Lm 120V 3000'K | PRESCOLITE LBSSLEDA6L | 1, 2 |
| L4 | LED SECURITY WALL PACK POLYCARBONATE LENS WHITE FINISH | 20W 1500Lm 120V 5000'K | WPD LIGHTING SWP20–120V | 1, 2 |
| | | | | |
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| | | | | |
| LA | WHITE ROUND ACRYLIC CEILING MOUNTED INCAND. (BEDROOMS & DINING/FAMILY) | 2–60W MAX. | VICAR INDUSTRIES VC4182–14 | 2 |
| LB | CEILING MOUNTED INCANDESCENT (CORRIDOR) | 1–60W MAX. | VICAR INDUSTRIES VC233–14 | 2 |
| LC | WALL MOUNTED INCANDESCENT FROSTED GLASS (BATHROOM) | 1–60W | VICAR INDUSTRIES VC190–14 | 2 |
| LD | CEILING MOUNTED ROUND OPAL CRYSTAL INCANDESCENT (KITCHEN) | 2–60W MAX. | VICAR INDUSTRIES VC216–14 | 2 |
| LE | WALL MOUNTED INCANDESCENT WEATHERING CONSTRUCTION POLYCARBONATE CYLINDER (TERR.) | 1–75W | VICAR INDUSTRIES VC271–14 | 2 |
| | | | | |

1–COORDINATE COLOR FINISH WITH ARCHITECT
2–FIXTURE TO BE APPROVED BY BOTH CONSULTANT AND ARCHITECT

## ELECTRICAL SPECS:

1.0 GENERAL PROVISIONS

1.1 Electrical contractor shall perform all work specified, indicated and required unless otherwise noted, including final connections.

1.2 Conform to General Contract documents except as modified herein.

1.3 Refer to Architectural, Structural, and Mechanical Contract Documents. Coordinate all work with other trades.

1.4 Examine site before bidding.

1.5 Accept sole and complete responsibility for conditions of the job site, including safety of all persons and property during performance of the work.

1.6 Comply with the requirements of the National Electrical Code, local codes, serving utility, and the local authority having jurisdiction.

1.7 Procure and pay for all required permits and service charges.

1.8 Unconditionally guarantee all work to be free of defects in materials and workmanship for one year from date of final acceptance.

1.9 Cut and patch as required. Core bore and trench existing floors as required.

1.10 Provide new, UL listed, commercial grade materials, devices, equipment, and fixtures, suitable for environment.

1.11 Order equipment within 5 days of receipt of contract to maintain schedule.

1.12 Provide continuous, permanent, and effective grounding system.

1.13 Furnish, install, and remove temporary lighting and power for all trades as required.

2.0 PLANS AND SPECIFICATIONS

2.1 Drawings are diagrammatic. Verify all dimensions and lengths, and adjust equipment and raceway locations to avoid conflicts with other construction.

2.2 Refer to drawings for particular project requirements, as not all items specified may be required.

2.3 Drawing indications and notations supersede these specifications.

2.4 Refer to drawings for additional ratings and requirements.

2.5 Provide all minor items necessary for a complete and fully functional system.

2.6 Make minor adjustments to work where requested by Owner, when such adjustments are necessary to proper operation and within the intent of the contract.

2.7 Notify the Engineer of errors, discrepancies or omissions before construction or fabrication of affected work, or, failing such notice, be responsible for correcting same.

2.8 Invoice Mechanical Contractor, not Owner, for costs incurred due to substitution of mechanical equipment having electrical requirements differing from those indicated.

3.0 MATERIALS

3.1 Wire: type THHN, copper only, 12AWG min. for interior. Home runs longer than 75', 10AWG minimum. THWN–2 for underground wiring in direct contact with earth and for raceway exposed to weather above ground.

3.2 Raceway: continuous system; 3/4" min. PVC SCHED.40 except: 3/4" min. rigid galvanized steel RGSC or PVC SCHED.80 when exposed weather; and FMC (or LTFMC if wet location) for short final connections to lighting fixtures, transformer, and mechanical equipment.

3.3 Where individual home runs are shown for clarity, combine and adjust raceway size per field conditions.

3.4 Boxes: NEMA OS1 in interior dry locations, cast weatherproof type in wet locations.

3.5 Floor boxes: recessed flush, cast. Size as indicated on drawings.

## ELECTRICAL NOTES:

1–PRIOR TO SUBMITTING HIS FINAL PROPOSAL, THE BIDDER IS REQUIRED TO EXAMINE CAREFULLY THE AREAS OF THE WORK, THE EXISTING AND NEW CONDITIONS INCLUDING NEW AND EXISTING RACEWAYS TO BE WIRED, REWIRED, ABANDONED, OR RELOCATED AND TO FAMILIARIZE HIMSELF WITH CONDITIONS WHICH WILL BE ENCOUNTERED AND WITH THE CHARACTER, EXTENT, QUALITY AND QUANTITY OF WORK AND SERVICES TO BE PERFORMED AND MATERIALS TO BE FURNISHED OR REMOVED AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK.

2–ANY RACEWAY OR CONDUIT WHICH ENTERS A BUILDING OR STRUCTURE FROM AN UNDERGROUND DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH AN APPROVED SEALING COMPOUND.

3–ALL SWITCHBOARDS AND PANELBOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES.

4–RECEPTACLES IN DAMP LOCATIONS SHALL BE PROVIDED WITH "WEATHERPROOF/NO–PLUG" TYPE PLATES; RECEPTACLES IN WET LOCATIONS SHALL BE PROVIDED WITH "WEATHERPROOF/PLUG–IN" TYPE PLATES WITH "EXTRA DUTY" HOODS.

5–THIS CONTRACTOR SHALL VERIFY THAT ALL WIRING INSIDE ELECTRICAL PANELS IS PROPERLY IDENTIFIED WITH CIRCUIT NUMBER TAGS (HOT, NEUTRAL, AND GROUND CONDUCTORS). PROVIDE TYPEWRITTEN CIRCUIT BREAKER DIRECTORY.

6–ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING THE LOADS ON ALL PANELS.

7–CONTRACTOR SHALL VERIFY EXACT LOCATION OF ANY FLOOR OUTLETS OR STUB–UPS WITH ARCHITECT PRIOR TO ANY ROUGH–IN WORK.

8–CONTRACTOR SHALL COORDINATE WITH ARCHITECT AT FIELD ALL CONDUIT ROUTINGS FROM EXTERIOR OR REMOTE LOCATED ITEMS AS EMERGENCY GENERATOR, WATER PUMPS CONTROL PANEL, EXHAUST FANS, A/C CONDENSING UNITS, ETC.

## GENERAL NOTES:

1–PVC SCHED.40 CONDUIT SHALL BE USED EXCEPT WHERE NOT ALLOWED BY N.E.C. OR UNLESS OTHERWISE INDICATED, 3/4" IPS MINIMUM SIZE. CONDUITS THRU HUNG CEILING SHALLS BE EMT, WITH COMPRESSION TYPE FITTINGS AND CONNECTORS.

2–ALL CONDUITS EMBEDDED IN FLOOR AND CEILING SLABS SHALL BE COORDINATED WITH CONCRETE REINFORCEMENTS IN ORDER TO AVOID CONDUIT CROSSINGS.

3–THHN WIRE SHALL BE USED FOR INTERIORS UNLESS OTHERWISE INDICATED #12 A.W.G. MIN. SIZE. WIRING SERVICES UNDERGROUND IN DIRECT CONTACT WITH EARTH AND RACEWAY EXPOSED TO WEATHER SHALL BE THWN–2 RATED FOR WET LOCATION.

4–WIRING DEVICES & PLATES SHALL BE WHITE COLORED, DECORA TYPE.

5–ELECTRICAL INSTALLATION SHALL BE DONE IN STRICT ACCORDANCE WITH N.E.C. AND P.R.E.P.A. REGULATIONS, LATEST EDITION.

6–INSTALLATION DETAILS ARE ILLUSTRATIVE AND SHOULD NOT BE USED WITHOUT VERIFYING JOB SITE CONDITIONS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ANY DEVIATION THEREFROM.

7–DIMENSIONS OF JUNCTION OR PULL BOXES SHALL BE REVISED BY ELECTRICAL CONTRACTOR ACCORDING TO ACTUAL BUILDING CONDITIONS TO SECURE AT LEAST PERMISSIBLE MINIMUM CABLE BENDING RADIUS.

8–ALL CONVENIENCE RECEPTACLES SHALL HAVE A #12 GREEN JUMPER BETWEEN RECEPTACLE GROUNDING SCREW AND THE OUTLET BOX GROUNDING SCREW.

9–CONNECTIONS IN WIREWAYS SHALL BE MADE BY USE OF CABLE CONNECTION BLOCKS EQUAL OR SIMILAR TO "KEYTAP" AS MANUFACTURED BY KEYSTONE MFG. CORP.

10–RACEWAY SHALL BE PROVIDED WITH APPROVED EXPANSION FITTINGS WHERE CROSSINGS BUILDING EXPANSION JOINT.

11–USE #10 AWG CONDUCTORS FOR ALL INTERIOR LIGHTING CIRCUITS AND FOR CIRCUIT HOME RUNS TO PANELBOARDS THAT ARE 100 FEET OR MORE FROM THE POWER SOURCE.

12–ALL RECEPTACLES 15/20A–125/250V IN DAMP LOCATIONS SPECIFIED OR NOT WITH WEATHER PROOF PLATES SHALL BE LISTED "WEATHER RESISTANT" TYPE PER NEC–2008, ART.406.8.

13–ALL NON–LOCKING TYPE RECEPTACLES 15/20A–125/250V SHALL BE LISTED "TAMPER RESISTANT" / "TR".


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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

EDIFICIO DE USO MIXTO
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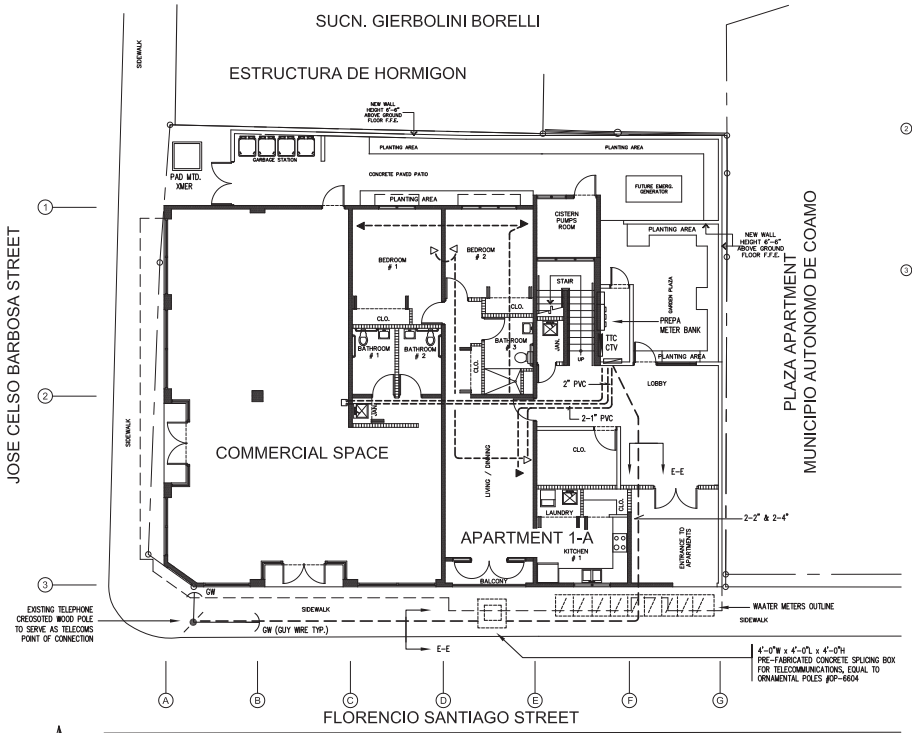
Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE
LEGEND, NOTES, AND SCHEDULES

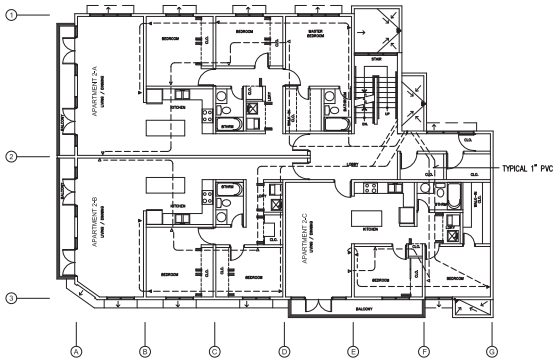
| PROJECT | SHEET NO. . OF |
|---|---|
| DESIGNED | DRAWING E–8 |
| DRAWN | |
| DATE | |

CARLOS H. URRUTIA FERRER INGENIERO LICENCIADO LIC. NO. 9852 PUERTO RICO



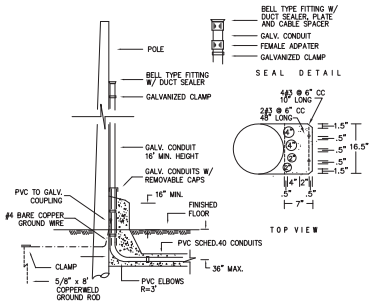

## TELECOMS SITE PLAN

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



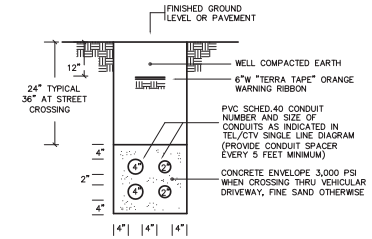

## TELECOMS - SECOND/THIRD

SCALE: 3/32" = 1'-0"



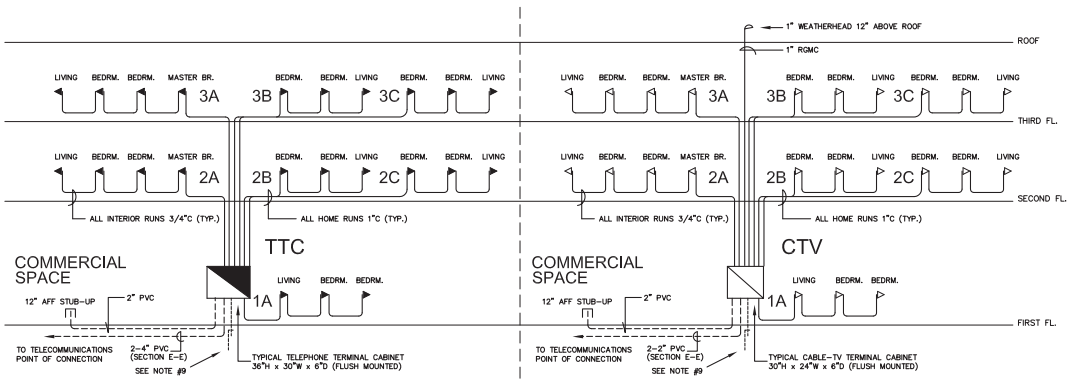

## CREOSOTED WOOD POLE 30'-C5
## TELEPHONE/CTV RISER DETAIL

N.T.S.




## SECTION E-E

N.T.S.




## TELECOMMUNICATIONS SINGLE LINE DIAGRAM

N.T.S.

LEGEND:

- 2-2" & 2-4" PVC (SECTION E-E)
- TELEPHONE TERMINAL CABINET OR BOARD, REFER TO SINGLE LINE DIAGRAM
- CABLE-TV/ANTENNA CABINET OR BOARD, REFER TO SINGLE LINE DIAGRAM

LOCATION PLAN SCALE: 1=20,000

LAMBERT: X= 208114.3382 Y= 227234.8452

## TELECOMS. NOTES:

1—CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL ALL MATERIALS REQUIRED FOR THE TELECOMMUNICATIONS INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO THE 3/4", 1", 2" AND 4" DIAMETER CONDUITS SHOWN IN DWGS. 2" AND 4" DIAMETER CONDUITS SHALL BE INSTALLED IN THE TELECOMMUNICATIONS EASEMENT AS SHOWN IN DETAIL.

2—ALL CONDUITS FOR TELECOMMUNICATION SERVICES SHALL BE 1" PVC SCHED.40 DIAMETER MINIMUM, PROVIDED WITH A 1/8"ø NYLON ROPE.

3—ALL CONDUITS FOR INTERIOR TELECOMMUNICATION OUTLETS SHALL BE 3/4" DIAMETER MIN., PROVIDED W/ GALV. FISHWIRE.

4—CONDUITS 2" & 4" IN DIAMETER FOR TELECOMMUNICATIONS DISTRIBUTION SHALL BE SCHED.26 AND SHALL BE PROVIDED WITH A #1/4ø NYLON ROPE WITH A BREAKING STRENGTH OF 500 POUNDS AND SHALL BE TESTED WITH 1—3/5" AND 3—5/16" MANDRELS RESPECTIVELY.

5—TRENCH BACKFILLING SHALL BE PERFORMED WITH SELECTED MATERIAL FREE OF ROCKS OR OTHER SHARP OBJECTS AND CONTAMINANTS. BACKFILL SHALL BE COMPACTED TO 95% IN 6" LAYERS BY MEANS OF A TAMPER, WITH THE FIRST 12" TAMPED USING LIGHTWEIGHT EQUIPMENT.

6—ALL EXPOSED CONDUIT ENDS SHALL BE CAPPED WITH PVC END CAPS AND CLEARLY IDENTIFIED. ALL CONDUITS IN DIST./SPLICE BOXES SHALL BE SEALED WHETHER OR NOT IN USE.

7—PULL BOXES THAT MAY BE REQUIRED BY FIELD CONDITIONS SHALL BE AT NO ADDITIONAL COST. MIN. CONDUIT BENDING RADIUS (36") AND MINIMUM CONDUIT BENDS NOT LESS THAN 90° SHALL BE AS PER TELECOMMUNICATION STDS.

8—DISTRIBUTION BOXES (3'x3'x3'/4'x4'x4') AND SPLICE BOXES (6'x4'x4'/7'x4'—6"x4') SHALL BE PLACED AS INDICATED ON PRINTS. DIST. BOXES SHALL BE LOCATED IN EASEMENT COINCIDING WITH TELECOMMUNICATIONS DIST. POINTS, LOCATED TWO FEET FROM THE PROPERTY LINE BETWEEN LOTS SO AS NOT TO INTERFERE W/ ANY CARPORT OR SIDEWALK ENTRANCE.

9—PROVIDE A #6 THW COPPER CONDUCTOR IN 3/4" CONDUIT FROM THE TEL/CTV MAIN TERMINAL BOARD OR CABINET TO COPPERWELD GROUND ROD 5/8" X 8' AND CLAMP. MAKE CONNECTION ALSO TO BUILDING'S COMMON GROUND IBTB "INTERSYSTEM BONDING TERMINATION BAR" AS INDICATED

10—CABINET MUST COMPLY WITH NEMA SPECS, MINIMUM STDS. TO NEMA TYPE 2 DESIGNATION SPECIFICATION. MATERIAL TO BE CLEANED AND DEGREASED PRIOR TO PAINT FINISH, ANSI #61, DRY, 155E115-U GRAY POLYESTER POWDER COAT. CABINET SHALL BE GALVANIZED STEEL #304, PROVIDED WITH HINGE DOOR WITH LATCH AND KEY.

11—ALL TELECOMMUNICATIONS SYSTEMS (TEL. & CTV) SHALL BE BONDED AND GROUNDED AT ALL POINTS, CONNECT ALSO TO STRUCTURE'S ELECTRICAL COMMON GROUND MAT.

12—IN COMPLIANCE WITH SECTION 19.04 OF "REGLAMENTO DE PLANIFICACION 3" THE DEVELOPER SHALL TRANSFER TO THE P.R. TELECOMMUNICATIONS REGULATORY BOARD (JRTPR), IN A COORDINATED MANNER AND BY MEANS OF A PUBLIC DEED, THE RIGHT OF WAY DESPICTED IN THESE DRAWINGS AS REQUIRED TO PROVIDE THE TELECOMMUNICATIONS SERVICES.

13—THE P.R. TELECOMMUNICATIONS REGULATORY BOARD (JRTPR) MIGHT ISSUE PARTIAL ENDORSEMENTS FOR SINGLE FAMILY RESIDENTIAL PROJECTS SO THAT THE DEVELOPER CAN DELIVER PORTIONS OF THE PROJECT AS THEY ARE COMPLETED. THE DEVELOPER SHALL COORDINATE WITH JRTPR'S DULY AUTHORIZED TELECOMMUNICATIONS PROVIDERS THE INSTALLATION OF RISERS, THE CONNECTION OF CONDUITS, OR ACCESS TO THEIR FACILITIES. FINALLY, THOSE TELECOMMUNICATIONS PROVIDERS SHALL BE ALLOWED TO INSTALL THEIR DISTIBUTION FACILITIES IN A COORDINATED AND ORDERLY MANNER TO THOSE PORTIONS OF THE PROJECT FOR WHICH A PARTIAL ENDORSEMENT HAS BEEN ISSUED.
ONCE THE PROJECT IS FULLY COMPLETED, THE DEVELOPER SHALL COMPLY WITH THE PROCEDURE SPECIFIED IN SECTION 5.02.5 OF THE JRTPR'S "RELAMENTO PARA ENDOSO DE SERVIDUMBRE E INFRAESTRUCTURA" RELATED TO FINAL ENDORSEMENTS.

JRTPR-2019- -REC-

JUNTA REGLAMENTADORA DE TELECOMUNICACIONES DE PUERTO RICO

ENDOSO DE PLANOS DE FACILIDADES Y/O SERVIDUMBRE DE TELECOMUNICACIONES Y TELEVISION POR CABLE

CHECKED BY DATE

RECOMMENDED BY DATE

APPROVED BY DATE

THE APPROVAL OF THESE DRAWINGS DOES NOT RELIEVE THE BUILDER/DEVELOPER FROM COMPLYING WITH ALL APPLICABLE REGULATIONS AND STANDARDS

CARLOS H. URRUTIA FERRER LIC. NO. 9852 PUERTO RICO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| SYM. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

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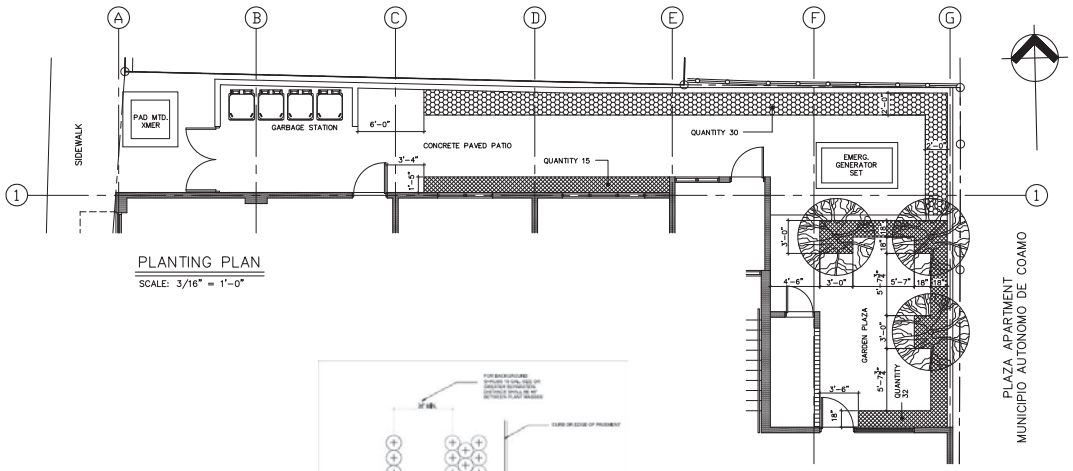
Yo, Carlos H. Urrutia Ferrer, Lic.#9852, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

DRAWING TITLE

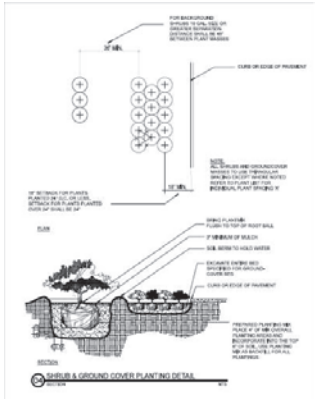
TELECOMS PLAN & DETAILS

| PROJECT | SHEET NO. . OF |
|---|---|
| DESIGNED | DRAWING T-1 |
| DRAWN | |
| DATE | |

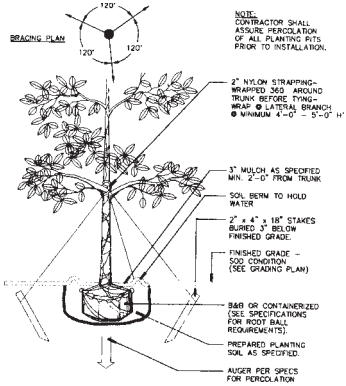



PLANTING PLAN

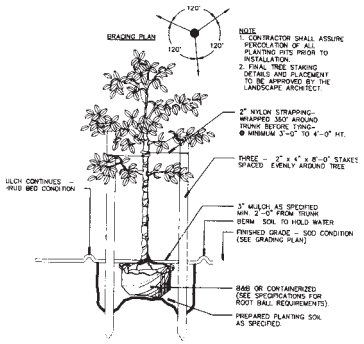
SCALE: 3/16" = 1'-0"



SHRUB & GROUND COVER PLANTING DETAIL




X LARGE TREE




X SMALL TREE DETAIL

**PLANTING GENERAL NOTES :**

1 - SOME PLANTS SPECIES LISTED ON PLANT LIST MAY NOT BE IN DRAWINGS.

2 - CONTRACTOR SHALL NOTIFY DESIGNER 2 WEEKS IN ADVANCE TO FIELD REVIEW AND APPROVE ALL PLANT MATERIAL PRIOR TO PURCHASE AND DELIVERY.

3 – ALL PLANTS MATERIAL SHALL BE APPROVED BY OWNERS REPRESENTATIVE OR DESIGNER AT TIME UPON DELIVERY TO SITE AND GIVEN FINAL APPROVAL BEFORE INSTALLATION.

4 – PLANT DEEMED BY DESIGNER OR OWNERS REPRESENTATIVE TO OF UNACCEPTABLE QUALITY SHALL BE REPLACED BY CONTRACTOR AT NO COST TO OWNERSHIP.

5 – ALL SINGLE TRUNK TREES SHALL HAVE A MINIMUM OF SIX (6') FOOT CLEAR TRUNK UNLESS OTHERWISE NOTED.

6- ALL TREE CALIPER SIZES NOTED ON PLANT LIST ARE MINIMUM. INCREASE CALIPER SIZE IF NECESSARY TO CONFORM TO PLANT SIZE SPECIFICATIONS.

7 – ANY TREE WITH A "V" FORM TRUNK, OR BRANCHING WILL BE REJECTED.

8 – ANY SUBSTITUTIONS IN SIZE AND/OR PLANT TYPE MUST BE APPROVED (IN WRITING) BY THE DESIGNER OR OWNERS REPRESENTATIVE BEFORE PLANTING CAN BEGIN.

9 – CONTRACTOR SHALL REFER TO THE LANDSCAPE DETAILS, WRITTEN SPECIFICATIONS, GENERAL NOTES FOR FURTHER AND COMPLETE INSTRUCTIONS.

10 – SHOULD A PLANT BE UNAVAILABLE AT THE TIME OF INSTALLATION, ALL SUBSTITITIONS ARE SUBJECT TO THE APPROVAL OF THE DESIGNER.

11 – TOP SOIL, FERTILIZERS, AND MULCHING MUST BE ESTIMATED AND QUOTED BY LANDSCAPE CONTRACTOR BASED ON FOUR (4") INCHES TOP SOIL AND TWO (2") INCHES MULCH.

12 – PLANTING MIX SHALL BE FREE OF DELETERIOUS MATERIAL HARMFUL TO PLANT GROWTH, FREE OF NEMATODES, AND OF UNIFORM QUALITY WITH A PH RANGE 5.5-6.5. PEAT SHALL BE STERILIZED TO BE MADE FREE OF ALL VIABLE UNDESIRABLE WEEDS. PLANTING MIX FOR TREES, SHRUBS AND GROUNDCOVER AREAS SHALL CONTAIN THE FOLLOWING:

50% LOCAL TOPSOIL
30% COMPOSTED VEGETATION OR MANURE
10% CLEAN WASHED RIVER SAND (NOT BEACH SAND)
10% PEAT MOSS

13 – TOPSOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. THE PH SHALL BE IN THE RANGE OF 5.5 TO 6.5. IT SHALL BE OF UNIFORM COMPOSITION AND FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS AND OTHER EXTRANEOUS MATTER.

14 – FINISH GRADE ALL PREPAED PLANTING AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. REMOVE ALL STONES TWO (2") INCHES OR LARGER FROM PLANTING AREAS.

15 – ONE WEEK FOLLOWING INSTALLATION ALL PLANTS SHALL BE FERTILIZED AT THE FOLLOWING RATES:

-PALMS/TREES: 13-3-13 PLUS MINORS SLOW RELEASE GRANULAR -1/4 LB. FERTILIZER PER INCH OF TRUNK DIAMETER.
-SHRUBS AND GROUND COVER: 8-10-10 PLUS MINORS SLOW RELEASE GRANULAR -1/2 LB. NITROGEN PER 1,000 SF. AREA.

REPEAT APPLICATONS EVERY 6 WEEKS UNTIL FINAL ACCEPTANCE BY OWNER. THE COST FOR LANDSCAPE FERTILIZER AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE PER PLANT PRICE.

16 – THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL PLANTING AREAS (INCLUDING WATERING, SPRAYING, WEEDING, MULCHING, MOWING, FERTILIZING) FROM THE TIME OF INSTALLATION UNTIL THE POINT OF FINAL ACCEPTANCE, IN FULL, BY OWNER'S REPRESENTATIVE.

17 – THE LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIAL FOR A TWELVE (12) MONTH PERIOD FOLLOWING THE POINT OF FINAL ACCEPTANCE, IN FULL, BY OWNER'S REPRESENTATIVE.

PLANTING SCHEDULE

| SYMBOL | QTY. | BOTANICAL NAME | COMMON NAME | SPACING | DESCRIPTION |
|---|---|---|---|---|---|
| | 3 EACH | PIMENTA RECEMOSA | MALAGUETA/BAY RUM | SEE PLAN | 15"GAL – 25"GL 6' – 8"HT X 4"SPR SINGLE TRUNK / FULL |
| | 47 | ASPARAGUS DENSIFLORUS 'SPRENGERI' | ASPARAGUS FERN | 18" OC. | 1 GAL. – 8"–12"HT./FULL |
| | 30 | PHILODENDRON XANADU | PHILODENDRUN XANADU | 24" OC. | 3 GAL. – 12"HT. X 18"SPR/FULL |

NOTA:
Yo, Ilis Sánchez Arana, dirtmo de licencia 8443, certifico que soy el profesional que confeccionó y/o diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto de Permisos para Obras de Construcción y Uso de Terrenos vigente. Además, certifico que he preparado estos planos y especificaciones de acuerdo a los estándares de mi profesión y que no he omitido ni falseado información significativa que pueda alterar sustancialmente los resultados de los mismos. Finalmente, certifico que no he violado ninguna disposición de la Ley de Ética Gubernamental de Puerto Rico que prohíba o limite a un ex empleado o ex funcionario público participar en asuntos en los cuales intervino durante su servicio público. Asimismo

# ARCHITECTURAL PERSPECTIVES

S·A·A
SANCHEZ
ARANA
ARQUITECTOS
EDIFICIO DE USO MIXTO ( COMERCIO Y VIVI ENDA)
CALLE FLORENCIO SANTIAGO# 26
Coamo, Puerto Rico

**PR-CRP-000145**

# Proyecto Residencial Comercial Pisos de Coamo FS26 Project

## Coamo, Puerto Rico

Attachments

27 de diciembre de 2019

Ing. Gabriel Hernández Rodríguez
Secretario Auxiliar
**DEPARTAMENTO DE DESARROLLO ECONÓMICO Y COMERCIO**
Oficina de Gerencia de Permisos
PO Box 41179
San Juan, Puerto Rico 00940-1179

**RECOMENDACIÓN AMBIENTAL**
**NO OBJECIÓN – PROTECCIÓN PATRIMONIO EDIFICADO**

| | |
|---|---|
| **CASO OGPe:** | **2019-295028-REA-003712** |
| DESCRIPCIÓN: | EDIFICIO DE USO MIXTO RESIDENCIAL/COMERCIAL ("PISOS DE COAMO") |
| MUNICIPIO: | **COAMO / ZONA HISTÓRICA** |
| UBICACIÓN: | CALLE FLORENCIO SANTIAGO 26 ESQ. JOSÉ C. BARBOSA |
| CATASTRO: | 66-345-033-046-09-001 |
| CALIFICACIÓN: | C-I |
| PROPIETARIO: | MUNICIPIO DE COAMO<br>PO BOX 1875, COAMO, PUERTO RICO 00769 |
| PROPONENTE: | ARQ. ILIA SÁNCHEZ ARANA, SÁNCHEZ ARANA ARQUITECTOS |

Estimados señores:

El Instituto de Cultura Puertorriqueña (**ICP**), por medio de su Programa de Patrimonio Histórico Edificado (**ICP-PHE**), ha examinado el proyecto de referencia para determinar si afecta Propiedades de Valor Histórico y Arquitectónico que estén protegidas, o sean elegibles a serlo, bajo las leyes y reglamentos que nuestra agencia tiene responsabilidad de administrar, como agencia primaria, endosante o recomendante. Estas leyes y reglamentos incluyen, entre otros:

1. La ley 89 del 21 de junio de 1955 S.E., Ley Orgánica del Instituto de Cultura Puertorriqueña, en especial el inciso 4(a)(7), "Determinar que edificios o estructuras son de valor histórico o artístico en Puerto Rico. (…)" y el inciso 4(a)(8), "Asesorar a la Junta de Planificación en la reglamentación de construcción en aquellas zonas que determine como zonas de valor histórico. (…)".
2. La ley 89 del 21 de junio de 1955 S.E., Ley Orgánica del Instituto de Cultura Puertorriqueña, en su inciso 4(b)(3) según enmendado por la ley 119 del 26 de septiembre de 2005, que permite "adoptar, enmendar o derogar, por conducto de su Junta de Directores, las reglas que gobiernen [el] funcionamiento y el descargo de los poderes" concedidos e impuestos al **ICP** por ley, y la imposición de multas administrativas y/u otras sanciones por su incumplimiento o violación.
3. El **Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo, Uso de Terrenos y Operación de Negocios**, Reglamento 38 de la Junta de Planificación ("Reglamento Conjunto") con vigencia del 7 de junio de 2019, en todos los incisos aplicables a zonas y sitios históricos, en especial el Tomo X (10), "Conservación de Recursos Históricos" – incluyendo, en las zonas históricas, edificios elegibles, no elegibles, solares vacíos y espacios públicos.
4. Las zonificaciones S-H, antes CR-H o SH, cubiertas por el Tomo VI, Capítulo 6.1 "Áreas Calificadas", Regla 6.1.21 del Reglamento Conjunto.
5. Las disposiciones del Tomo X, Capítulo 10.2 "Conservación de Sitios y Zonas Históricas", Sección 10.2.5.4 y Reglas 10.2.7 y 10.2.8 del Reglamento Conjunto, las que establecen, para los Centros Fundacionales de los Pueblos, así como para las Plazas, Plazuelas y Plazas de Recreo, las reglas de protección del Patrimonio Histórico.
6. La disposición del Tomo X, Capítulo 10.2 "Conservación de Sitios y Zonas Históricas", Sección 10.2.2.4, "Obras Exentas de Permisos", del Reglamento Conjunto la que establece el requerimiento de la Recomendación del ICP en las reparaciones y construcciones misceláneas de carácter menor, incluyendo

aplicación de pintura y la limpieza rutinaria o de mantenimiento de la edificación que no conlleve el uso de maquinaría, químicos o abrasivos y no afecte la integridad de la misma, en los centros fundacionales, sitios y zonas Históricas de Puerto Rico.

7. La Resolución JPE-25 Segunda Extensión del 10 de febrero de 2000, la cual requiere evaluación del **ICP** para consultas y usos a darse a edificios públicos construidos anteriores a 1960.
8. La exigencia de endoso o comentario del **ICP** aplicable a propiedades designadas de valor histórico y arquitectónico por otros medios, tales como:
    a. Resolución de la Asamblea Legislativa
    b. Monumentos Históricos designados por la Junta de Directores del **ICP**
    c. Propiedades designadas por un plan de ordenamiento territorial de un Municipio Autónomo y que esté en vigor, o por el Plan de Uso de Terrenos de Puerto Rico
    d. Ser declaradas históricas en un plan especial de zonificación.
    e. Otras propiedades referidas por cualquier componente del Sistema Unificado de Información (**SUI**)/Single Business Portal (**SBP**), la Oficina de Permisos de un Municipio Autónomo con poder de otorgar permisos, la Junta de Planificación, el Programa de Arqueología y Etnohistoria del **ICP**, u otra agencia o entidad de gobierno con poder reglamentario.
9. Petición a solicitud voluntaria de un propietario o derechohabiente de una propiedad.

De acuerdo a nuestros expedientes y la información provista:

1. Esta propiedad es parte de una **Zona Histórica** según este concepto está definido por el tomo XII (12), parte III, definición Z-11, y elaborado en el tomo X (10), del Reglamento Conjunto. Esta propiedad queda dentro de la **Zona Histórica de Coamo**, designada por medio de la Resolución 95-66-005-JP-ZH de la Junta de Planificación el 19 de julio de 1995.
2. Esta propiedad, actualmente un solar mayormente baldío con algunos remanentes edificados sin valor histórico o arquitectónico, albergará un edificio de nueva construcción el cual, de acuerdo con nuestro análisis de lo presentado por los proponentes, cumple con los requisitos para obras de nueva construcción en Zonas Históricas de acuerdo a la Sección 10.2.5.4 (Normas de Intervencion para las Nuevas Construcciones y Alteraciones de Propiedades No Elegibles en Zonas Históricas y para los Centros Fundacionales) y la Sección 10.2.5.6 (Fachadas Exteriores e Interiores de Sitios Históricos y Propiedades Elegibles y No Elegibles en Zonas Históricas) del Reglamento Conjunto.
3. No hay efecto adverso a la Zona Histórica de Coamo, ni a otros lugares cercanos que sean actualmente o puedan ser en el futuro sitios históricos o zonas históricas.
4. Se solicita construir un edificio de uso mixto residencial y comercial, con siete apartamentos y un local comercial en tres niveles y mirador, en la Calle Florencio Santiago 26, esquina con la calle José C. Barbosa, en el centro y Zona Histórica de Coamo. Este edificio será levantado mayormente en hormigón armado y bloques.

Luego de la evaluación del caso se determina que el mismo CUMPLE con nuestros requerimientos y se emite, desde el punto de vista de protección del patrimonio edificado, una declaración de **NO OBJECIÓN** a la obra de construcción propuesta. Requiere radicación de Solicitud de Recomendación de Arquología y Conservación Histórica ("SRA") en etapa de Permisos.

Este documento tiene vigencia de un (1) año a partir de su emisión.

Sin otro particular, quedamos.

Mildred González Valentín, M. Arch.
Subdirectora de Conservación
Programa de Patrimonio Histórico Edificado
Instituto de Cultura Puertorriqueña

MGV/JOC/jo

c: Expediente caso PPHE, ICP
Jorge Ortiz Colom, Conservacionista IV, Evaluador de Caso, ICP-PPHE
Pablo Ojeda O'Neill, Director, PPHE, ICP

GOBIERNO DE PUERTO RICO
Instituto de Cultura Puertorriqueña

13 de enero de 2020

***"SOLICITUD DE ESTUDIO ARQUEOLÓGICO"***

Ing. Gabriel Hernández Rodríguez
Sistema Integrado de Permisos
PO Box 41118
San Juan, Puerto Rico 00940

**PISOS DE COAMO**
**CALLE FLORENCIO SANTIAGO #26**
**ESQ. CALLE BARBOSA, COAMO**
***CASO OGPE #2019-295028-REA-003712***

Estimado ingeniero Hernández:

El Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña ha evaluado los documentos relacionados al proyecto de referencia, recibidos a través de la División de Arqueología y Conservación Histórica de la Oficina de Gerencia de Permisos.

Como resultado de esta evaluación, hemos llegado a la conclusión de que existen posibilidades de que las actividades de desarrollo que contempla este proyecto pudieran afectar recursos de naturaleza arqueológica. La evaluación fue realizada conforme a las disposiciones de la Sección 10 de la Ley 112 del 20 de julio de 1988, conocida como la Ley de Arqueología Terrestre de Puerto Rico.

Para corroborar dicha información, el proponente deberá someter, para nuestra evaluación y determinación, los resultados de una evaluación arqueológica **Fase IA-IB,** conforme a los artículos 6 y 7 del Reglamento para la Radicación y Evaluación Arqueológica de Proyectos de Construcción y Desarrollo #8932, Segunda Parte, revisado el 8 de febrero de 2017), **en original debidamente encuadernado y copia en CD Rom en formato de PDF con el respectivo pago de cuota de $200.00.** Deberán ser radicados en el Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña, localizado en el Viejo San Juan. Los documentos solicitados deberán ser preparados por un arqueólogo cualificado para estos niveles de investigación por el Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico y cumplir con todos los requerimientos del Reglamento para la Radicación y Evaluación de Proyectos de Construcción y Desarrollo.

Se le apercibe que el incumplimiento con estos requerimientos podrá ser objeto de sanciones administrativas según lo establecido en la citada ley.

Cualquier duda relacionada con este documento puede comunicarse con el evaluador a cargo.

Cordialmente,

Dr. Carlos Pérez Merced
Director Interino
Programa de Arqueología y Etnohistoria

CPM/GOE/mgb

SHPO Letter with instructions on submittal though PRDOH

GOBIERNO DE PUERTO RICO

Oficina Estatal de Conservación Histórica

March 16, 2021

**Hon. Juan C. García Padilla**
Mayor
Coamo Municipal Government
Apartado 1875
Coamo, PR 00769

Att: Elvin Colón Correa, Director, Planning and Economic Development

SHPO: 03-08-21-04 CONSTRUCTION OF A THREE-STORY BUILDING WITH COMMERCIAL SPACE AND SEVEN HOUSING UNITS, PISOS DE COAMO, PUERTO RICO

Honorable Mayor García,

We acknowledge receipt of your letter regarding the above referenced project. In your communication you confirm that the Municipality of Coamo is requesting Federal assistance to undertake this project through the U.S. Department of Housing and Urban Development's (HUD) CDBG-DR program. The Puerto Rico Department of Housing (Puerto Rico Housing) is the state agency administering these funds and, as responsible entity, must assume responsibilities for environmental review, decision-making and action that would apply to HUD under Sections 106 and 110 of the National Historic Preservation Act and its implementing regulations.

According to Puerto Rico Housing's standing policy, only they may directly initiate Section 106 consultation with our Office. We, therefore, await their communication to initiate the Section 106 review. We anticipate we will request they carry out an intensive (Phase II) archaeological survey of the project area, and that the work plan to implement such a survey be submitted to our Office, for review and concurrence, prior to implementation.

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/MB

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

# Estudio Arqueológico Fase IA/ IB

## “Pisos de Coamo”

**Calle Florencio #26 esq. Barbosa Barrio Pueblo, Coamo PR**

**Caso: OGPE #2019-295028-REA-003712**

**Preparado para:**
**Municipio Autónomo de Coamo**
**Hon. Juan Carlos García Padilla, alcalde**

**Presentado a:**
**Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña, San Juan, Puerto Rico**

**Preparado por:**
**Arql. N. Medina-Carrillo Ph.D.**

**En colaboración con:**
**Arql. Fernando Alvarado,M.A.**

**23 de marzo de 2020**

# Estudio Arqueológico Fase IA/ IB

## "Pisos de Coamo"

**Calle Florencio #26 esq. Barbosa Barrio Pueblo, Coamo PR**

**Preparado para:**

**Municipio Autónomo de Coamo**
**Hon. Juan Carlos García Padilla, alcalde**

**Preparado por:**


**Arql. N. Medina-Carrillo, Ph. D.**
**Investigador Principal**
**#34 c. Corrientes**
**Urb. Riachuelo, Trujillo Alto, PR.**


**23 de marzo de 2020**

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# INTRODUCCION

El programa de Arqueología y Etnohistoria, en comunicación oficial del 13 de enero de 2020 requirió para el Proyecto “Pisos de Coamo” en el barrio Pueblo del municipio de Coamo una evaluación arqueológica Fase IA-IB. De acuerdo con los parámetros establecidos, la parte evaluadora considera que existe la posibilidad de que las actividades de desarrollo que contempla este proyecto pudieran afectar recursos de naturaleza arqueológica.

Cumpliendo con las disposiciones de la Sección 106 de la Nacional Historic Preservation Act of 1966 (Public Law 102-575) según enmendada en 1992, 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation, que trata sobre la protección de los recursos arqueológicos terrestres, la firma consultora solicitó nuestros servicios.

En la consecución de los objetivos primarios y secundarios de una investigación arqueológica a nivel de fase IA-IB, tomaré en consideración la guía para hacer investigaciones arqueológicas de la Oficina Estatal de Conservación Histórica y el Reglamento para la Radicación y Evaluación Arqueológica de Proyectos de Construcción y Desarrollo del Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico, adscrito al Instituto de Cultura Puertorriqueña.

En su contexto más amplio, este informe se habrá de preparar para cumplir con los requisitos establecidos por las Agencias reguladoras en asuntos culturales. La evaluación arqueológica Fase IA – IB ha sido descrita como la primera fase de estudio y definida por el Arqueólogo John Vetter de la Agencia Federal de Protección Ambiental (EPA), región de Nueva York de la siguiente manera:

## Fase IA: Estudio de Búsqueda y Sensibilidad de la Literatura

La Etapa IA es el nivel inicial de estudio que requiere una investigación documental integral diseñada para identificar y conocer o potenciales recursos históricos, arquitectónicos y/o arqueológicos dentro de un área de proyecto. Un objetivo principal del estudio es evaluar la sensibilidad diferencial del área del proyecto para la presencia de recursos culturales, esta información se utilizará para guiar la investigación de campo que sigue. Para llevar a cabo la búsqueda de literatura, fuentes de la Oficina Estatal de Preservación Histórica (PR-SHPO), universidades, museos de bibliotecas locales, sociedades históricas y similares, para ser consultadas. Se evalúa la naturaleza y la extensión del proyecto propuesto, se completa un reconocimiento inicial y la inspección de la superficie y se aumenta el efecto de la perturbación del suelo previa de la probabilidad de identificar los recursos culturales. El documento final debe centrarse en el área del proyecto e incluye mínimamente:

1. Breve descripción del proyecto
2. Descripción del entorno ambiental en lo que se refiere a los lugares de recursos culturales reales o potenciales.
3. Síntesis de desarrollo prehistórico e histórico y cultural y patrones de uso de la tierra.

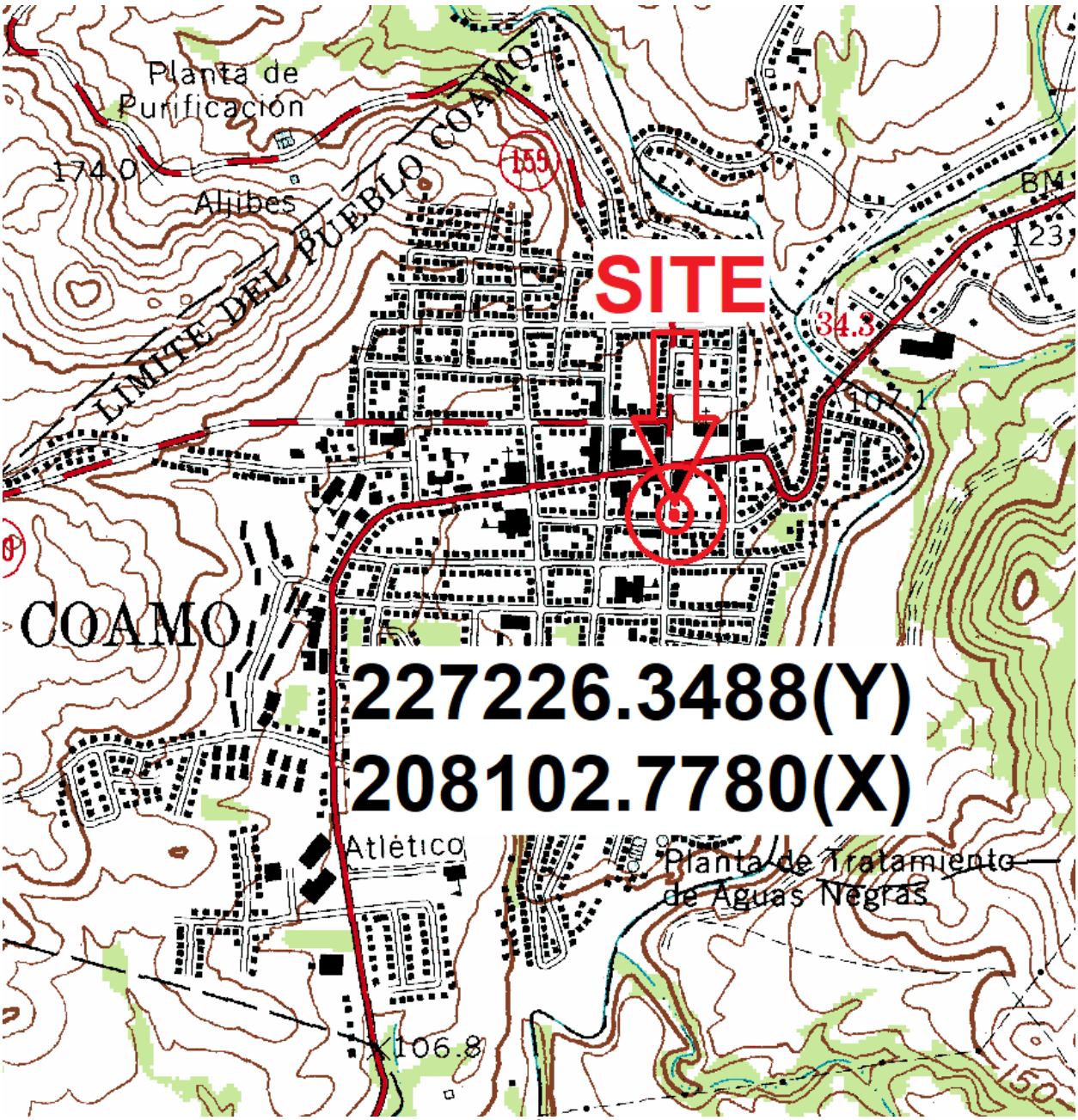
## Fase IB: Investigación inicial de campo

Las pruebas de superficie son el componente principal de este nivel de investigación. Se requieren a menos que la presencia o ausencia de recursos culturales se pueda determinar mediante la observación directa o mediante el examen de referencias de documentos específicos. Las áreas que han de someterse a las pruebas se seleccionan sobre la base de los datos recopilados en la evaluación de la etapa IA y de la ubicación probable de la empresa. Debe establecerse la ubicación cuidadosa de los recursos identificados con respecto a las áreas de impacto del proyecto propuesto. Las pruebas de superficie son el componente principal de este nivel de encuesta y se requieren a menos que la presencia o ausencia de recursos se pueda determinar mediante la observación directa o mediante el examen de referencias de documentos específicos. Las áreas que han de someterse al estudio se seleccionan sobre la base de los datos recopilados en la evaluación de la etapa IA y de la ubicación probable de la empresa. Debe establecerse la ubicación cuidadosa de los recursos identificados con respecto a las áreas de impacto del proyecto propuesto. Las pruebas de superficie son el componente principal de este nivel de encuesta y se requieren a menos que la presencia o ausencia de recursos se pueda determinar mediante la observación directa o mediante el examen de referencias de documentos específicos. Registros completos de la estratigrafía del suelo y el catálogo de artefactos, incluida la identificación, el intervalo de fechas estimado y la cantidad de peso según corresponda. La ubicación de todas las unidades de prueba debe trazarse con precisión en un mapa de área de proyecto, con ubicaciones de recursos identificados claramente definidas. La fotografía, que ilustra las impresiones destacadas del área de la encuesta, es un componente necesario del informe final. Las recomendaciones detalladas y el apoyo nacional para la investigación adicional deben incorporarse a las conclusiones del estudio de la etapa de la Fase IB. Si todos los recursos culturales identifican a través de la Fase IA y la Fase IB no se verán afectadas por el proyecto propuesto, el proceso de investigación se completa.

[1]

Figura #1
Ubicación del Proyecto. Foto Aérea by Google Earth

[1] Figura #1. Imagen utilizando Google Earth Pro




[2]

Figura # 2
Ubicación del Proyecto

Ubicación del Proyecto Pisos de Coamo, Coamo PR
Cuadrángulo Coamo, PR U.S.G.S. Escala Original 1:20,000

[2] Figura #2. Cuadrángulo USGS Coamo

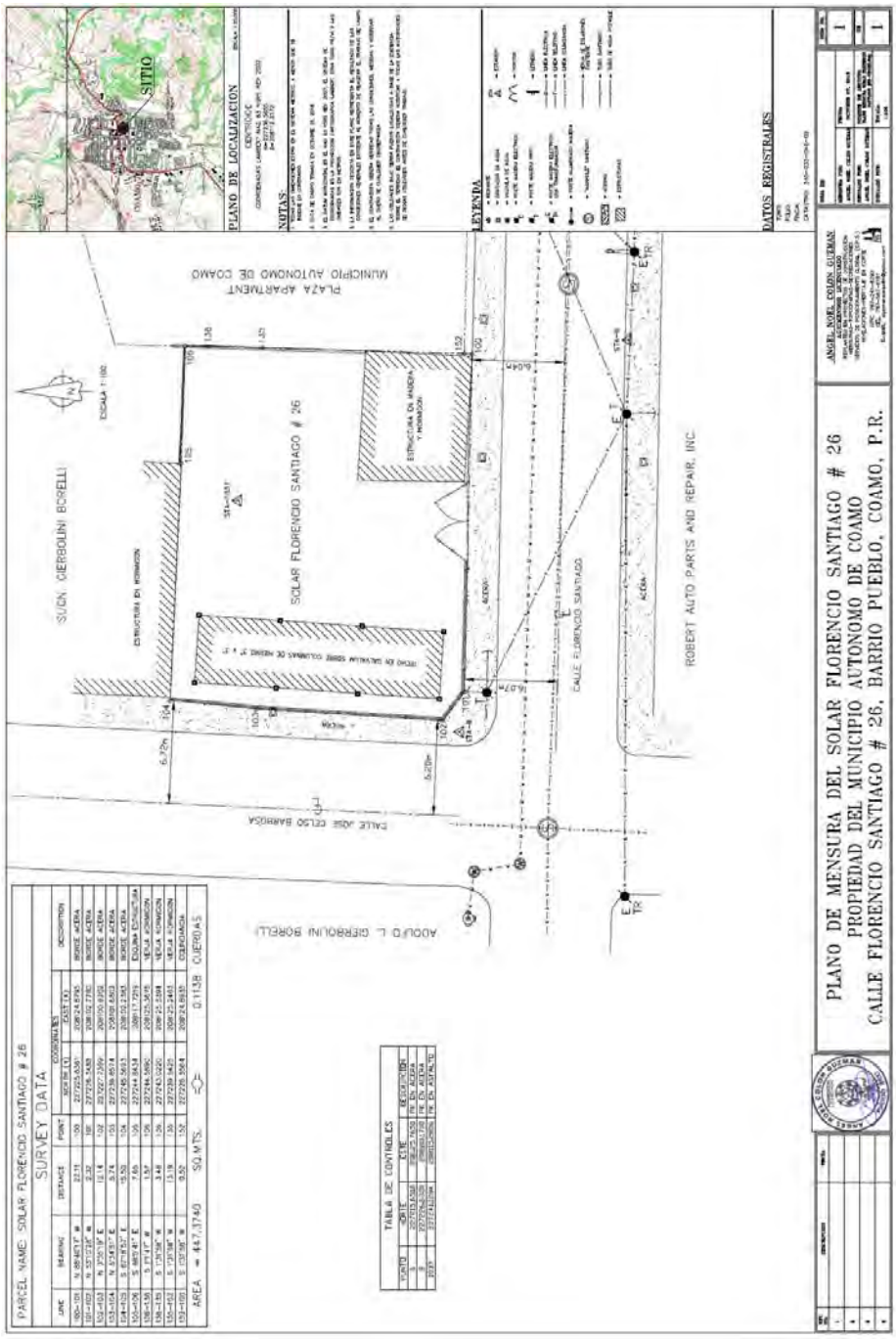



Figura #3
Plano “as Built” del Proyecto

[3] Figura #3 Suministrado por el Proponente

[4]

Figura # 4
Dibujo del desarrollo planificado

[4] Figura #4 Suministrado por el proponente. Realizado por Sánchez Arana Arquitectos

# Investigación Fase IA

La evaluación arqueológica a nivel de Fase IA incluye: una descripción del proyecto; una reseña del marco ambiental; una síntesis del desarrollo cultural y el patrón del uso del terreno. Se contempla, además, un reconocimiento visual de toda el área del proyecto con el propósito de identificar algún vestigio prehispánico y /o histórico en la superficie del terreno.

**Descripción del Proyecto:**

El Municipio de Coamo ha iniciado el desarrollo del proyecto "Pisos de Coamo" que propone construir en la zona urbana de la ciudad como parte de su programa de revitalización del casco urbano.

El solar que ubica en la Calle Florencio Santiago Número 26 fue adquirido por el municipio para el año 2019 como parte de varias adquisiciones de propiedades en desuso dentro de la zona urbana con la intención de construir nuevos espacios comerciales y vivienda para la venta.

La intención de desarrollo de este proyecto de use combinado en un solar municipal de 477 mc., aproximadamente consta de un primer nivel con pies cuadrados de espacio comercial y seis apartamentos de vivienda en dos niveles adicionales para la venta.

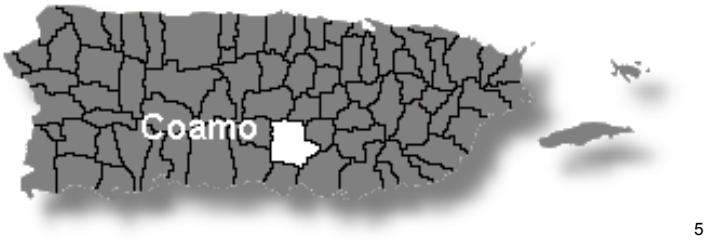
El solar en cuestión está en la zona histórica del caso urbano, en cuyos Imites ya se han desarrollado varios proyectos de revitalización como los dirigidos por Urbanismo para los años 2002-2004 y otros posteriores donde la administración municipal le ha dado continuidad con sus recursos fiscales y otras fuentes identificadas para seguir la obra de planificación urbana.

Dentro de estos proyectos se destacan en su segunda fase, la Rehabilitación de la propiedad histórica Casa Bernier, la remodelación del Teatro Hollywood y la construcción de la egida urbana Plaza Apartments.

**Marco Ambiental.**

**A. Situación y Límites.**

El municipio de Coamo, esta localizado en la región sur de la Cordillera Central. Al norte colinda con Barranquitas y Orocovis, al sur con Santa Isabel, al oeste con Juana Díaz y Villalba y al este con Aibonito y Salinas.




[5]

Figura # 5
Localización municipio de Coamo

El municipio de Coamo se compone de once (11) barrios cuyos nombres señalamos a continuación: Pedro García, Hayales, Coamo Arriba, Pulguillas, Santa Catalina, Pasto, Cuyón, Los Llanos, San Ildefonso, Palmarejo y Pueblo.

[6]

Figura # 6
Ubicación del municipio de Coamo y sus barrios

[5] Figura #4. http://www.proyectosalonhogar.com/link%20.r/www.linktopr.com/Coamo.html
[6] Ibíd.

**B. Geografía.**

Geográficamente, el municipio de Coamo corresponde a la región Colinas Semi-Árida del Sur, formada por elevaciones de escasa altura que no sobrepasan los 1,000 pies. Esta región se extiende a lo largo de las montañas de la Cordillera Central en su lado sur y colinda con la llanura costera del sur. Esta es un área bastante árida, pues queda a sotavento de la mencionada cordillera. Su área más seca está en Coamo, con sólo 40 pulgadas de lluvia al año. Los productos agrícolas principales son la caña de azúcar y el café. También es importante la ganadería. La vegetación natural nos da el escambrón, las anonáceas, el guayacán y el jagüey[7].

8

Figura # 7
Regiones Geográficas de Puerto Rico

**C. Topografía.**

El territorio de Coamo es mayormente montañoso. La vertiente sur de la cordillera Central penetra por el territorio norte de Coamo. Allí es donde se encuentran las mayores alturas, en los barrios Pedro García, Hayales y Pulguillas; en este último los cerros Pulguillas y Pico se elevan a 840 y 790 metros (2,756 y 2,592 pies) de altura respectivamente. También en el norte, en Coamo Arriba, están los cerros de Santini. Hacia el centro de este municipio, en la llamada región de las colinas, encontramos elevaciones menores, como los cerros Presidio (en Palmarejo) y Santa Ana (en Pasto), ambos de 460 metros (1,509 pies) de altura; la loma Pelagatos (en Santa Catalina), de 350 metros (1,148), y los cerros de la Mesa (en Cuyón) y Winter (en San Ildefonso).

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[7] Nueva Geografía de Puerto Rico. Física. Pico Rafael. Editorial Universitaria 1969 p. 11
[8] Figura #6 Ibíd. p. 42

Además, los cerros Petronila, El Malo y Cariblanco, se alzan, siguiendo el orden en que se mencionan, entre los límites del municipio de Coamo con los de Villalba, Orocovis y Salinas. Ver la altura de cada uno en el municipio a que corresponden. Las tierras más llanas de Coamo, que no superan los 200 metros (656 pies) de altura están en los alrededores de la población de Coamo y al sur, en los barrios Los Llanos y San Ildefonso, así como en las vegas de los ríos Coamo y Descalabrado.

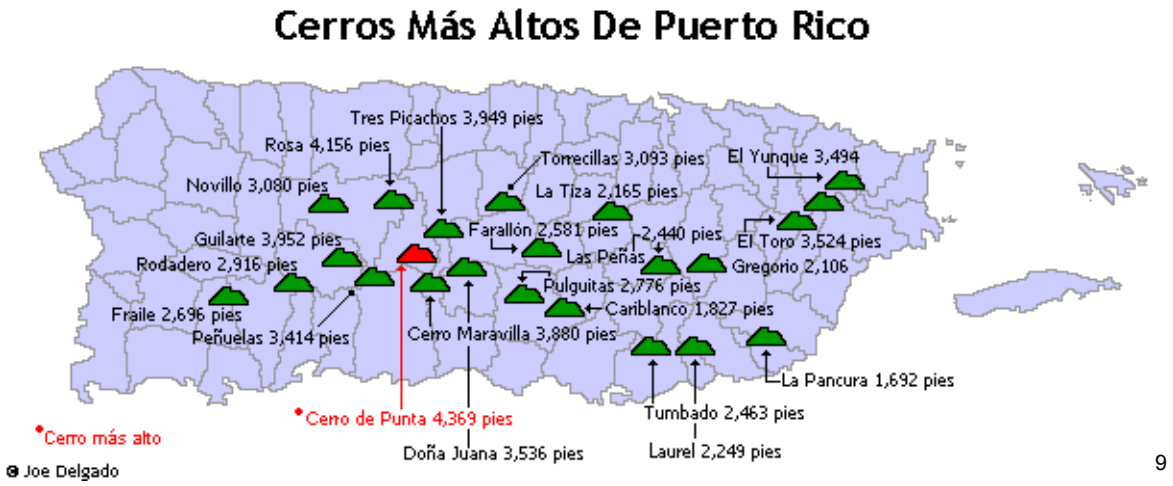


Figura # 8
Mapa Topográfico de Puerto Rico

**D. Hidrografía.**

El municipio de Coamo está regado por el río Coamo, que nace en el barrio Pulguillas y desemboca al mar Caribe cerca de la población de Santa Isabel, después de recorrer unos 35 kilómetros (22 millas), y sus afluentes los Ríos Cuyón y de la Mina. Al Río Cuyón tributan sus aguas las quebradas Helechal, Obispo, Cerrillos, de los Panes, Montería y Falsa; al de la Mina, el Río Pasto. El Río Toa Vaca (nace en el barrio Hayales), el cual es afluente del Río Jacaguas; tiene como afluente a la quebrada La Cotorra.

[9] Figura #7. https://www.google.com.pr/search?q=geograf%C3%ADa+de+puerto+rico&client=firefox-b&sa=X&tbm=isch&imgil=WDkl5WZyW25BwM%253A%253BOo9xsSdkBTFoaM%253Bhttp%25253A%25252F%25252Fgeografia.laguia2000.com%25252Fgeografia-regional%25252Famerica%25252Fpuerto-rico-generalidades&source=iu&pf=m&fir=WDkl5WZyW25BwM%253A%252COo9xsSdkBTFoaM%252C_&usg=__dx2-D0nMNXDAK7ZijKUmLCGxJyg%3D&biw=1920&bih=971&ved=0ahUKEwjB4NvemY7VAhVOfiYKHc1_D6MQyjcISQ&ei=bpFrWcHxCM78mQHN_72YCg#imgrc=eCbsxTki8sBeAM:

También lo riegan los Ríos Descalabrado (nace en el barrio Pedro García) y Jueyes, que se originan entre los municipios de Salinas y Coamo. El primero mide unos 23 kilómetros (14.5 millas) y el segundo 13 kilómetros (8.19 millas) de largo. Al sur de la población de Coamo, también están los Baños de Coamo, de aguas termales.

Sus afluentes son los ríos Cuyón, que nace en Aibonito, mide unos 20 kilómetros (12.7 millas) y recibe las aguas de las quebradas Algarrobo, Obispo, Cerríllos, de los Panes, Montería y Falsa; y de la Mina, que nace en el barrio Santa Catalina de Coamo y mide 8 kilómetros (5 millas), y tiene de afluente al río Pasto; y la quebrada Hayales, que nace en el barrio Hayales de Coamo y desemboca el río Coamo en Coamo Arriba.

[10]

Figura # 9
Mapa Hidrográfico de Puerto Rico

**E. Precipitación.**

El promedio de lluvia en la zona de Coamo es de 80 pulgadas anuales. La zona está bajo la influencia de los vientos alisios todo el año. El clima en el área es bastante agradable y fresco. Este factor hace que la temperatura promedio prevalezca en unos 85-90 grados Fahrenheit.

[10] Figura #8 https://www.google.com.pr/search?q=Regiones+geograficas+de+PR&client=firefox-b&tbm=isch&tbo=u&source=univ&sa=X&ved=0ahUKEwjXofimu73UAhWBLyYKHUMlBIoQsAQINg&biw=1920&bih=971#imgrc=9s2E3dcxRfnh2M:

**F. Flora y Fauna.**

En los proyectos de construcción en zonas rurales, la Flora y la Fauna se encuentran grandes cantidades de especímenes. En otras ocasiones, la flora y la fauna esta principalmente ligadas a la intervención humana como, por ejemplo, animales domésticos en áreas intervenidas. En este proyecto, se evidenciaron animales comunes y de gran cantidad de extensión en la isla, tales como roedores, insectos y aves.

**G. Geología y Suelos.**

Los suelos de la zona no pudieron ser estudiados por USDA-NRCS Soil Conservation Services por ser áreas previamente desarrolladas. Sin embargo, en los terrenos colindantes, al Proyecto se encuentra el siguiente tipo o serie de suelo predominante: CoD. De esta manera podemos asumir que este tipo de terreno se encuentra en nuestro proyecto.

CoD. Callabo, arcilla lómico limoso.

> **CoD-** Generalmente se localizan en terrenos de moderados a muy escarpados en las montañas semiáridas. Los suelos de la serie Callabo son suelos con buen drenaje, la erosión en estos suelos representa un problema a causa de la pendiente del terreno. Los suelos de la Asociación Callabo, arcilla lómico limoso varían de levemente ácidos a neutrales. Se requiere de alguna técnica para prevenir la erosión cuando se intenta desarrollarlos para la agricultura. Estos suelos no son apropiados para el desarrollo agrícola. Son suelos que varían desde levemente ácidos a neutrales, que han sido depositados sobre rocas intemperizadas[11]. USDA-NRCS, Humacao p.13

[11] Soils Survey of Ponce Area of Southern Puerto Rico, 1979 p. 13

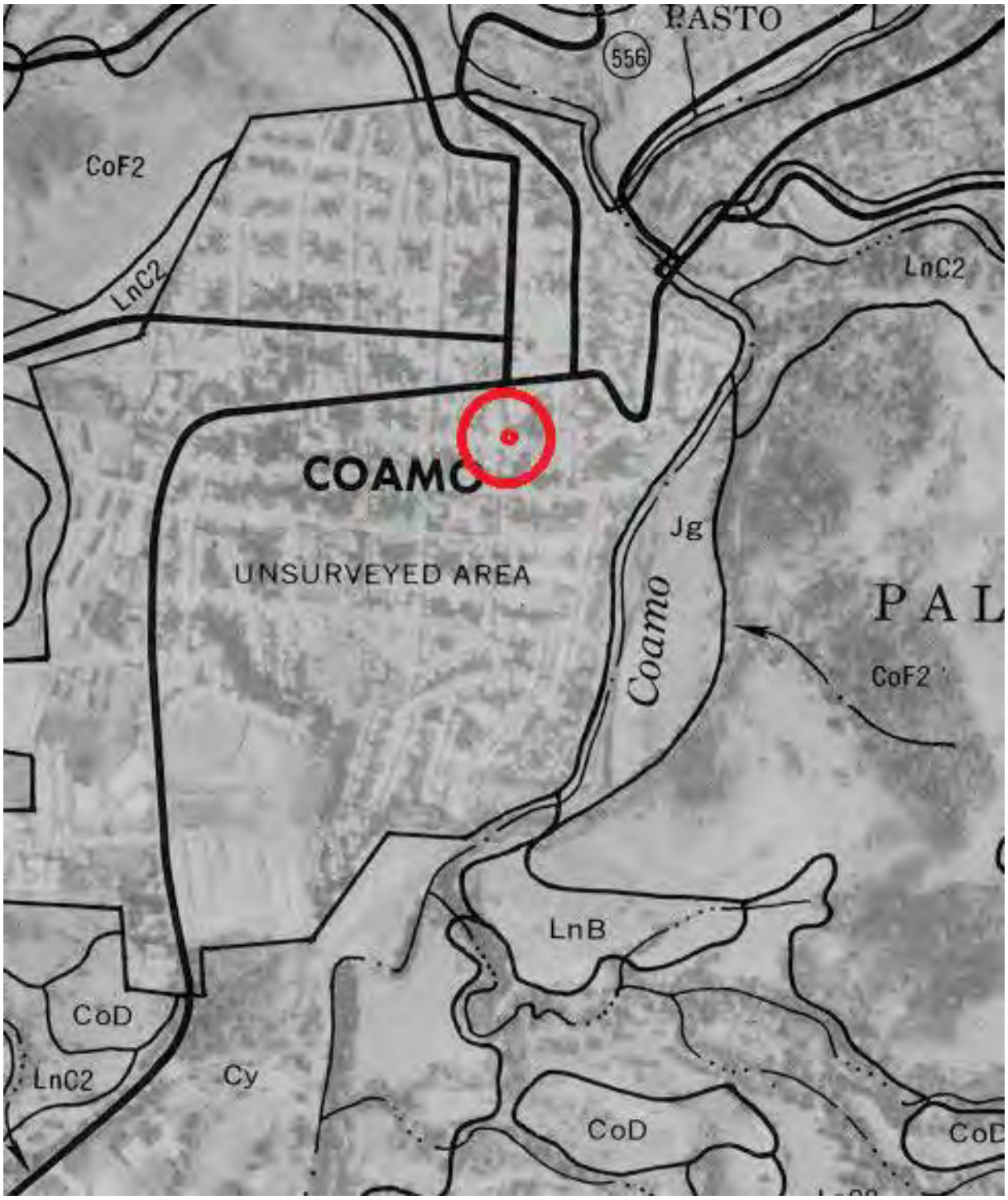


Figura # 10
Soil Survey of the Ponce Area of Southern Puerto Rico

# SINTESIS DEL DESARROLLO CULTURAL.

## TRASFONDO CULTURAL PREHISPANICO.

### A. Esquema Clasificatorio.

Tomando en consideración el esquema clasificatorio y el marco tempo espacial que comprende los periodos y series arqueológicas para Puerto Rico y el Caribe establecidas por el Arqueólogo Dr. Irving Rouse (1964-1986-1992), habremos de cometer algunos aspectos cronológicos de la región de este municipio con sus posibles componentes culturales.

El Periodo I (3,000 – 2,000 AC) Se caracteriza por bandas de recolectores marinos, pre-cerámicos ligados a los ambientes del litoral costero, a las áreas de mangle y a los recursos de cuevas y abrigos rocosos. Estos grupos pobladores pertenecen a la Era Lítica. Se caracteriza por producir instrumentos líticos utilizando en proceso de la piedra lascada. Durante el Periodo IB (2,000 AC – 100 DC) se desarrolló la llamada Era Arcaica (Rouse 1986). Este grupo poblador practicaba la pequeña casería, la pesca y la recolección de plantas y semillas silvestres. Los instrumentos líticos eran producidos utilizando el método de piedra pulida.

Durante el Periodo II, se desarrolla en Puerto Rico la Serie Saladoide especialmente la Sub-Serie “Cedrosan Saladoids” (Rouse Migrations in Prehistory 1986, pp. 139). Estos grupos pobladores introducen por primera vez en las Antillas Menores, Puerto Rico y la Española los rudimentos en la fabricación de vasijas (cerámicas), la agricultura y la vida sedentaria. La Sub-Serie “Cedrosan Saladoids” llamada así por el Complejo Cedros en la Isla de Trinidad, es considerada la representación agro-alfarera más temprana de las Antillas. La evidencia actual parece indicar que la Serie Cedrosan Saladoids (100 - 400 DC) se originó en el Orinoco medio desplazándose posteriormente hacia el bajo Orinoco, la costa nororiental de Venezuela, la costa de las Guyanas, las Antillas Menores, Puerto Rico y la Española.

Estos pobladores son portadores de una excelente tradición ceramista, destacándose su cerámica por una decoración pintada blanco sobre rojo, incisiones rellenas con pintura y el entrecruzado en zona como uno de los elementos estilísticos más temprano. Su yacimiento cabecera en Puerto Rico fue localizado en el Barrio Hacienda Grande de Loíza. Sus manifestaciones estilísticas más tardías se ubican bajo el estilo Cuevas del Periodo IIB (400- 600 DC). Su economía estuvo fundamentada en el cultivo de la yuca y la explotación de los recursos del litoral marino donde obtenían moluscos, cangrejos y peces. Complementaban su dieta con la caza de pequeños roedores.

Durante el Periodo III (600-1,200 DC) se desarrolla en Puerto Rico la Sub-serie "Elenan Ostionoids" en el área del Pasaje de Vieques y la Sub-serie "Ostionan Ostionoids" en el área del Pasaje de la Mona. Ambas Sus-series se desarrollan estilísticamente a partir del estilo cerámico Cuevas de la Serie "Cedrosan Saladoids". Estas manifestaciones estilísticas post-saladoides han sido ubicadas bajo la Serie arqueológicas "Ostionoids" que a su vez han sido subdivididas en cuatro sub-series "Elenan Ostionoids, Meillacan Ostionoids, Ostionan Ostionoids y Chican Ostionoids". Sobre la diferencia estilísticas del Periodo III, nos dice al respecto Rouse.

> "Both new sub series retained the technology and shapes of the final Cedrosan pottery, as well as well as its tabular lugs, on which the earlier has previously been placed, and its red painted areas, on which the earlier potter has painted white designs.
> The Elenan Ostionoids artisan gradually made their pottery thicker, coarser and rougher and simplified its shape. The Ostionoid potters were more conservative. They continued to produce relatively thin, fine and smooth pottery and retained all the previous shaped[12].

Culturalmente, los grupos humanos de este Periodo III son conocidos como Sub-Tainos y se consideran portadores de los elementos y rasgos que posteriormente caracterizan a la sociedad Taina durante el contacto histórico. Se establece para este periodo un crecimiento demográfico y la aparición de los bateyes o juegos de la pelota.

[12] *Migrations in Prehistory: Inferring Population Movement from Cultural Remains*", New Haven, Yale University Press p, 143

Estos grupos pobladores dependían de la agricultura y la explotación de los habitad marinos. Es durante este periodo que se inicia un proceso de desplazamiento poblacional hacia el interior de la Isla.

Durante el periodo IV (1,200 - 1,500 DC) se desarrolla la Sub-serie arqueológica como "Chican Ostionoids" con los estilos cerámicos Capa en el oeste y Esperanza en el este como sus manifestaciones estilísticas en Puerto Rico. Esta Sub-serie se asocia culturalmente con la sociedad Taina del tiempo de contacto histórico. El taino se considera el grupo social más avanzado que pobló el ámbito antillano. Este grupo poblador se caracterizó por su gran dominio del medio ambiente y de la agricultura; por el juego de pelota con sus plazas y bateyes; por la institución del cacicazgo y por un alto grado de ceremonialismo.

**B. Prehistoria de Coamo**

La prehistoria de Coamo y áreas adyacentes han sido muy estudiadas y documentadas. Existe en el presente gran cantidad de yacimientos arqueológicos en este municipio. La mayoría de estos yacimientos arqueológicos están localizados a lo largo de los ríos Cuyón y Coamo. Al tiempo de la llegada de los colonizadores españoles a Puerto Rico, la población indígena de Coamo estaba localizada mayormente en varias aldeas a lo largo de los ríos Cuyón y Coamo, entre ellas.

1. Baños de Coamo, aledaña al balneario, al otro lado del río.
2. Buenos Aires, la calle Buenos Aires (sección sur del pueblo), cubría un área aproximadamente 4 cuerdas. En sus restos se han encontrado una gran cantidad de restos de conchas, se cree provienen de la también aldea indígena El Cayito en la costa del municipio de Santa Isabel, al sur de Coamo.
3. Cuyón, en el barrio Cuyón (aproximadamente a 7 kilómetros del pueblo. En sus restos se han encontrado una gran plaza taína, dos plazas adicionales y numerosos artefactos como concheros, alfarería taína, cemís, osamentas humanas, hachas y collares. Esta aldea tenía asociada varias cuevas habitables.

4. Las Flores, al oeste del sector Las Flores en el barrio San Ildefonso de Coamo. En los restos de esta aldea se encontraron artefactos de dos fases diferentes de la cultura aruaca: la ostionoide y la cedrosan saladoid. Esta aldea contenía una plaza semejante a la de Caguana en Utuado y su población se estimó entre 60 y 100 personas.

Se cree que existía una comunicación estrecha entre la aldea pesquera El Cayito y los poblados en las cuencas de los ríos Cuyón y Coamo hasta la aldea de Toita en el cacicazgo de Cayey. La cantidad de restos de conchas en estas aldeas sugiere un comercio entre las aldeas.

Artefactos encontrados en la aldea de Las Flores sugieren la existencia de un importante cacique de la región. Se cree que su nombre era Macuya. Posterior al cambio de soberanía, varios estudiosos en las distintas disciplinas del saber llegaron a Puerto Rico. Algunos de ellos, se dedicaron a realizar investigaciones arqueológicas. Entre los investigadores se encontraban: John Alden Mason, Samuel K. Lothrop, Froelich Rainey, Jesse Walter Fewkes e Irving Rouse.

Para el año de 1902, Jesse Fewkes bajo el patrocinio del Bureau of American Ethnology, realizó un reconocimiento arqueológico sobre varios lugares indígenas en Puerto Rico.

> "...the small pamphlets by Dumont and Krug, both of whom consider practically the same specimens, having apparently derived their knowledge not from personal inspection but from a manuscript preserved in San Juan..." (Fewkes, 1907)

Figura #11
Regiones dominadas por los caciques de Puerto Rico

Siguiendo la información dada por los vecinos, visitó el yacimiento arqueológico localizado en las cercanías de los Baños de Coamo. En su informe hace una detallada relación sobre las condiciones del yacimiento arqueológico y la localización del mismo. De igual modo, describe la roca con petroglifos localizada en el extremo oeste de la piscina, en el cauce de la quebrada.

Entre los años 1915-1916 Samuel K Lothrop, hizo un reconocimiento arqueológico en todo Puerto Rico, encontrando gran variedad de yacimientos.

> "... we list the known aboriginal settlements, together with a brief description. The sources of this list are the published records of various workers, data obtained from local students and personal observations." (Lothrop, 1934)

En el año de 1916, Lothrop visitó la región de Coamo. En sus notas aparecen varios lugares con evidencia arqueológica:

| | |
|---|---|
| Nota 37 | Barrio Coamo Arriba |
| Nota 38 | Barrio Pulguillas |
| Nota 39 | Barrio Santa Catalina |
| Nota 40 | Coamo Spring |
| Nota 41 | Cuevas en el municipio |
| Nota 42 | Barrio Palmarejo |

a. Lugar Fuerte
b. Lugar Esmeralda

En el año de 1938 y como parte del “Scientific Survey de Puerto and the Virgin Island, el Dr. Irving Rouse lo llevó a recorrer la región de Coamo e informar los yacimientos arqueológicos localizados. Teniendo como apoyo de investigación al Dr. Montalvo Guenard pudo estudiar y excavar los yacimientos arqueológicos localizados en la calle Buenos Aires y en el barrio Cuyón.

En el informe preparado por el Dr. Irving Rouse menciona los siguientes lugares en la jurisdicción del territorio de Coamo:

| | |
|---|---|
| Nota 293 | Coamo 1 (Cuyón) |

Notas 343 – 361 Coamo 2 (Río Jueyes)
Nota 486 Coamo 3 (Buenos Aires)
Nota 487 Coamo 4 (Calabaza)

En la década del 1940, el investigador norteamericano John Alden Mason hace su incursión en el municipio de Coamo e informa los siguientes sitios arqueológicos.

1. Vicente Usera
2. Lugar pequeño en un sitio al lado del rio del anterior.
3. Finca Florencia Santiago
4. Cuevas en Santa Catalina, Pedro García con petroglifos.
5. Coamo Arriba.

En el año de 1974, el arqueólogo puertorriqueño Juan José Ortiz Aguilú realizó excavaciones sistemáticas en el lugar denominado Las Flores en Coamo. El material encontrado durante las excavaciones arqueológicas consistentes en fragmentos de cerámica cuyos rasgos estilísticos correspondieron a los estilos Hacienda Grande, Cuevas y Ostionoide. En el 1979, el arqueólogo Juan González, realizó un reconocimiento, recopilando sitios conocidos e identificando varios nuevos recursos culturales adicionales.

### C. Aportación investigativa de los informes arqueológicos de Coamo (Informes Previos (1980- presente)

Durante los años 1985 al 2020, se han realizado cien nueve (109) estudios arqueológicos en el municipio de Coamo, de los cuales treinta y cinco (35) informes reflejan resultados positivos a elementos históricos e indígenas.

Los informes arqueológicos realizados para el municipio de Coamo comienzan con el estudio Fase IA-IB conocido como Extensión San Ildefonso Garden, (CO-85-01-01) del arqueólogo Jesús Figueroa. El cual arrojó resultados negativos.

Uno de los primeros informes arqueológicos en evidenciarse elementos positivos lo es, el proyecto Fase IB (CO-88-01-06) denominado Desvío carretera 153 a 155, del municipio de Coamo. Este estudio fue realizado por la arqueóloga Marlene Ramos para el año 1988. En el estudio se evidencio fragmentos cerámica histórica (mayólica) y cerámica indígena.

En 1991, la arqueóloga Virginia Rivera realizó un estudio arqueológico Fase IA-IB denominado Coamo By Pass (PR138) (CO-91-03-07). Como resultado de su investigación se pudo identificar cerámica histórica. Esta misma arqueóloga, para el 1997, encabezo un estudio arqueológico conocido como Sistema de Alcantarillado Sanitario en el barrio Los Llanos de Coamo. Durante su participación fue ubicado un yacimiento indígena, el cual consistía en cerámica, conchas y osamentas.

Durante los años 2002 al 2003, la arqueóloga Jacqueline López, realizó un estudio Fase IA (CO-02-09-08) y luego Fase IB (CO-02-09-12) del puente número 172, ubicado sobre el Río Descalabrado. En este estudio, fue comprobada la aportación histórica del puente.

En el año 2004, la arqueóloga Norma Medina, realizó una Documentación Arqueológica para el proyecto denominado Elemento de Pozo Filtrante de la Casa Museo y Archivo Histórico de Coamo (CO-04-10-05) en el barrio Pueblo de Coamo. Durante su participación fue ubicado un pozo histórico.

Para el 2012, nuestra empresa (AM Group), realizó un estudio Fase IA en el Barrio San Ildefonso de Coamo. Este estudio conocido Hacienda San Blas Windfarm, (CO-12-13-08) evidenció varias tomas de agua antiguas asociadas a una antigua ganadería y un horno de cal. Finamente, para el año 2015, la arqueóloga Raquel Camacho, documentó la existencia de cuatro atarjeas históricas fabricadas en ladrillo en el Proyecto Paseo de Ciclistas y Peatones, en el barrio san Ildefonso de Coamo.

Teniendo en cuenta la conocida data de varios sitios en la municipalidad de Coamo, podemos inferir que varios grupos pre-agro alfareros y agroalfareros estuvieron en la parte sur de Puerto Rico, hasta el principio de la colonización de Puerto Rico.

**Recursos Arqueológicos de Coamo**

En los archivos de la Oficina Estatal de Conservación Histórica y el Consejo para la Protección del Patrimonio Arqueológico Terrestre identifican veintidós (22) yacimientos arqueológicos identificados para el municipio de Coamo. Al presente no se conocen yacimientos arqueológicos precerámico en este municipio.

Tabla # 1 – Recursos Arqueológicos

| NOMBRE | LOCALIZACION | ASOCIACION |
|---|---|---|
| PR CO 001 | Las Flores | Saladoide -- Ostionoide |
| PR CO 002 | Cuyón | Ostionoide – Chicoide |
| PR CO 003 | Buenos Aires | Saladoide -- Ostionoide |
| PR CO 004 | Cantera | Elenoide |
| PR CO 005 | Baños de Coamo | Petroglifos |
| PR CO 006 | Las Calabazas | Ostionoide |
| PR CO 007 | Río Jueyes | Ostionoide – Chicoide |
| PR CO 008 | Farallón | Ostionoide – Chicoide |
| PR CO 009 | Los Corrales | Ostionoide |
| PR CO 0010 | La Bandera | Elenoide |
| PR CO 0011 | Carrillos | Ostionoide –Chicoide |
| PR CO 0012 | Jácana | Ostionoide |
| PR CO 0013 | Los Llanos | Elenoide |
| PR CO 0014 | Las Flores III | Elenoide |
| PR CO 0015 | Río Jueyes II | Elenoide |
| PR CO 0016 | Santa Catalina | Petroglifos |
| PR CO 0017 | Las Rojas | N/D |
| PR CO 0018 | Cadro | N/D |
| PR CO 0019 | Fuerte | N/D |
| PR CO 0020 | Esmeralda | N/D |
| PR CO 0021 | Florencio Santiago | N/D |
| PR CO 0022 | Pulguilla | N/D |

Al evaluar los recursos culturales cercanos al área del proyecto en el Centro Urbano de Coamo se tomaron en consideración tanto las características geográficas, topográficas y ecológicas de la zona como la información de la localización sobre los yacimientos arqueológicos conocidos en esta área del municipio.

Las características geográficas y ecológicas definen esta zona de un valle rodeado de pequeñas colinas donde discurren las cuencas hidrográficas de los ríos Coamo, Descalabrado y Cuyón. La cuenca hidrográfica formada por los ríos Coamo y Cuyón, área donde localiza el proyecto, es una idónea para el sostenimiento de comunidades durante la prehistoria de manera que también facilitó el establecimiento de un asentamiento colonial español temprano en el Siglo XVI. En base a los abundantes yacimientos arqueológicos precolombinos conocidos en el área y a la antigüedad de asentamiento colonial que ocurre en el centro urbano de Coamo, considerado uno de los más antiguos de la Isla de Puerto Rico, la sensibilidad arqueológica del centro urbano de Coamo se evalúa de moderada a alta. Especialmente cuando se trabaja en el área del centro histórico tradicional que ocupaba la Villa de Coamo entre 1572 y 1898.

Al presente, existe evidencia de unos veintidós (22) yacimientos arqueológicos precolombinos identificados en la región de Coamo. A una distancia de 1.5 Kilómetros del área del proyecto bajo evaluación localiza el yacimiento PRCO003. El yacimiento denominado PRCO003 (Buenos Aires) contiene evidencia de un asentamiento (aldea) de la cultura “cedrosan saladoide” del periodo tardío, contiene evidencia de cerámica estilo Cuevas. Este yacimiento PRCO003 (Buenos Aires) presenta características multicomponentes. El yacimiento denominado PRCO001 (Las Flores), localizado en el Sector San Ildefonso, se encuentra a unos 3.3 kilómetros de distancia del centro urbano de Coamo. Este yacimiento también presenta características multicomponentes y evidencia cerámica saladoide (Hacienda Grande) y ostionoide. El yacimiento *Las Flores* es reconocido como el asentamiento indígena de mayor antigüedad en la región de Coamo ya que contiene evidencia de cerámica estilo Hacienda Grande. Ambos yacimientos (Las Flores y Buenos Aires) contienen evidencia de antiguos asentamientos precolombinos que cronológicamente corresponden desde el periodo IIa hasta el periodo III de nuestra prehistoria. El análisis de la evidencia en archivo muestra que en general la región del municipio de Coamo puede considerarse como una de moderada a alta sensibilidad arqueológica.

Según información que le fuera suministrada al arquitecto Néstor Acevedo en 2001, existió un petroglifo en el patio del antiguo Hotel Colón de Coamo.[13] En adición a la información suministrada por el arquitecto Néstor Acevedo sobre la posible existencia de este petroglifo taíno en el área del Centro Urbano de Coamo, durante el proyecto del Soterrado de líneas se recuperaron varios fragmentos de cerámica precolombina mezclados con material de relleno en este sector. El fragmento de mayor tamaño corresponde a un fragmento de borde de vasija del estilo Capá. Este fragmento fue recuperado por uno de los obreros de la construcción y fue entregado a la arqueóloga Therese Marina López, en la Oficina del proyecto del Soterrado del Centro Urbano de Coamo en 2004. Es importante señalar que el proyecto del Soterrado de líneas en el Centro Urbano de Coamo (2003-2004) fue el único proyecto en el Centro Urbano al que se le requirió monitoria arqueológica. Otros proyectos de envergadura efectuados en el Centro Histórico como la Rehabilitación de la Plaza de Recreo, la Restauración de la Casa Alcaldía, la Rehabilitación de la Casa Museo (casa Pico-Pomar) y la construcción de la Nueva Plaza del Mercado no se les requirió monitoria por parte del Instituto de Cultura Puertorriqueña. Esto resultó en un gravísimo error que condujo al impacto negativo de recursos arqueológicos significativos como el impacto al Pozo Filtrante de la Casa Pico-Pomar (1840). Esta estructura resultó severamente impactada durante la excavación para colocar una bancada eléctrica.

Dado que justo al Sur de la Plaza de Recreo de Coamo se reconoce que corre en dirección Oeste–Este un antiguo Camino de Indios, hoy identificado como calle José I. Quinton, que unía el sector de la costa, antiguamente denominado Coamo Abajo, (hoy Santa Isabel) con las montañas de Aibonito y Cayey y, en vista de la presencia de fragmentos de cerámica indígena y de la existencia de un posible petroglifo justamente al Norte del área de la plaza de recreo, proponemos que en la parte más elevada de esta área localizaba un asentamiento o poblado Taino al momento de la conquista española del Borikén en 1508.

[13] Arq. Néstor Acevedo entrevistado por N. Medina-Carrillo en septiembre de 2011.

Además de un segundo asentamiento localizado en el área del río Coamo, el que hoy se identifica como PR-CO-003. Tradicionalmente los asentamientos cercanos a las riberas de los ríos se especializaban en las actividades de pesca y en la agricultura que se realizaba beneficiándose de fertilidad los terrenos en las terrazas aluviales que se formaban con las crecidas de los ríos

Al presente, existe evidencia de unos veintidós (22) yacimientos arqueológicos precolombinos identificados en la región de Coamo y en un radio de 1.5 Kilómetros de distancia del área del proyecto localiza el yacimiento PRCO003. El yacimiento denominado PRCO003 (Buenos Aires) contiene evidencia de un asentamiento (aldea) del periodo saladoide tardío, evidencia cerámica estilo cuevas. Este yacimiento PRCO003 (Buenos Aires) presenta características multicomponentes saladoide-ostionoide.

El yacimiento denominado PRCO001 (Las Flores), localizado en el Sector San Ildefonso, se encuentra a unos 3 kilómetros de distancia del centro urbano. Este yacimiento presenta características multicomponentes y evidencia cerámica saladoide (Hacienda Grande) y ostionoide. El yacimiento Las Flores PRCO001, es el de mayor antigüedad en la región de Coamo ya que contiene evidencia de cerámica saladoide estilo Hacienda Grande. Ambos yacimientos (Las Flores y Buenos Aires) contienen evidencia de antiguos asentamientos precolombinos que corresponden del periodo II a, alcanzando hasta el periodo III de nuestra prehistoria. La evidencia en archivo muestra que en general la región de Coamo puede considerarse como una de moderada a alta sensibilidad arqueológica. El sitio precolombino más cercano al área general del proyecto es el CO-003 Buenos Aires. Este yacimiento localiza en el límite Este del área urbana de Coamo, colindando con el río Coamo.

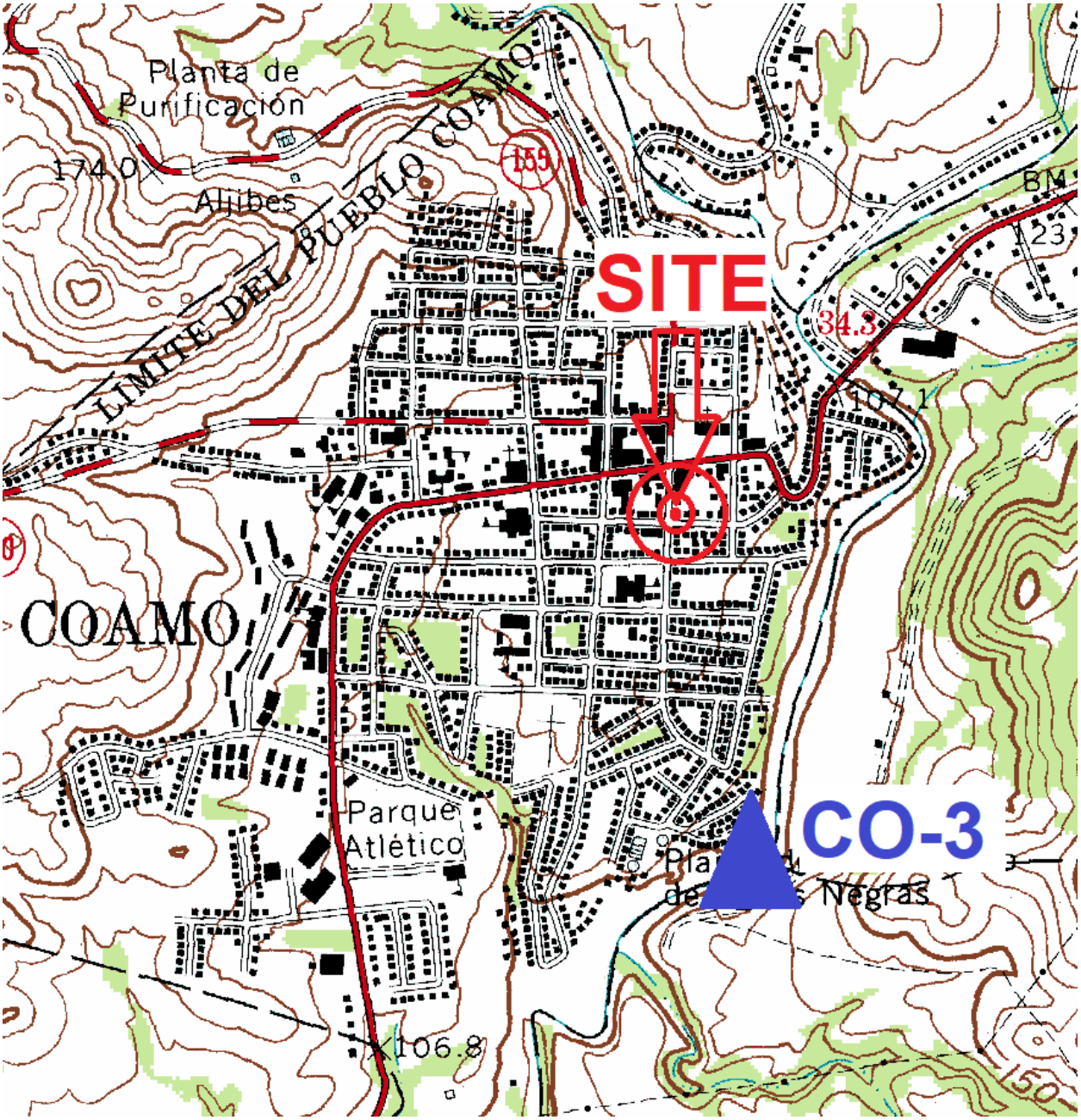


Figura # 12 – Localización Recursos Arqueológicos

Leyenda

Ubicación del Pisos de Coamo, Coamo, PR.

Recursos culturales codificados

## CONTEXTO CULTURAL HISTORICO.

### A. Síntesis de la Historia de Coamo.

El poblado español del siglo XVI establecido en esta zona toma su nombre del río que corre por su jurisdicción llamado por los indios taínos "Cuamo".[14] Según los historiadores locales el núcleo del poblado original fue fundado por vecinos de San Germán quienes buscaban un lugar más seguro y alejado de la costa para vivir y establecer sus haciendas. Para 1570 ya existía un núcleo de pobladores que componían unas treinta familias, lo cual, induce a los Obispos Mercado y Salamanca a solicitarle al Rey Felipe II, en 1579, la fundación oficial del pueblo de Coamo. Originalmente, el partido de Coamo se extendía desde el Río Jacaguas (al oeste) hasta el Río Guamaní (al este) y, hasta la costa del Mar Caribe. En 1582 se menciona el puerto de Coamo en un informe del Capitán General de la Isla Jhoan de Melgarejo.

> "...más adelante, como dos leguas y media por la costa hazia el Este, se haya una baya, que llaman el puerto de ***Cuamo,*** y a la entrada dél, a la parte del Oeste, ay unos arrecifes, y a la parte del Este dos ysletas, entrase por las ysletas y arrecifes, es puerto para nabios pequeños de a ciento y ciento cincuenta toneladas, aunque como no se llegue a tierra hay honduras para cualquier nabio,..".[15]

En 1582, ya existían unas veinte familias castellanas establecidas en las márgenes del río. Uno de sus fundadores Don Cristóbal de Illescas (original del pueblo de Illescas en la provincia de Toledo) quien donó los terrenos para establecer el poblado. El poblado fue localizado al norte de una gran aldea india. El pueblo inicialmente fue denominado San Blas de Illescas en honor al donante de los terrenos que sirvieron de emplazamiento al poblado. En 1597 los misioneros jesuitas Carlos Spínola y Jerónimo de Angelis describieron la iglesia que para entonces estaba construida de madera rolliza y rústica, cañas y palmas, al igual que las demás casas de la población. Diego Torres Vargas afirma que Coamo fue declarado pueblo en 1616, mientras, Pedro Tomás de Córdoba afirma que fue en el 1646.

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[14] El bachiller Santa Clara, er 1582, escribe **Cuamo.** El cronista de la Catedral, Torres Vargas, en 1647, anota, Coamo **es** corrupcíon de **Coama,** sitio o lugar llano.

[15] Fernández Méndez, Eugenio, Crónicas de Puerto Rico, Río Piedras: Editorial Universitaria, 1981. Pág. 133.

La Ermita de San Blas de Illescas fue fundada en 1582 por padre agustino Fray Diego de Salamanca. En el año de 1661 ya Coamo contaba con una iglesia construida en material de mampostería. Esta iglesia se convierte en Parroquia en 1645. En 1646 el cronista Torres Vargas menciona que el pueblo de Coamo ya contaba con unas cien familias (unos 700 habitantes). Durante los siglos XVI y XVIII Coamo se desarrolló como una región productora de jengibre y de ganado vacuno.

A principios del Siglo XVIII llega el café a la región de Coamo. Oriundo de Etiopia en África, el café se extendió hasta Arabia y desde allí fue introducido en Europa durante la Edad Media. El cultivo pasó al continente americano por vía de los franceses quienes lo introdujeron en sus colonias caribeñas de Martinica en 1720 y luego al Sait-Domingue francés en 1732. Desde el Saint-Domingue francés el café siguió su travesía a Santo Domingo por cultivadores franceses procedentes de Haití y hacia Cuba. Desde Cuba fue introducido a Puerto Rico por gestiones que realizó en 1736 el Gobernador Felipe Ramírez de Esternós. El café arribo a Venezuela en 1730 desde Surinam, donde llegó procedente desde las Islas de Martinica y Guadalupe. Fue sembrado en los misioneros españoles en la cuenca del Río Caroni. "Desde la Guayana el cafeto se difundió a la gobernación de Caracas, cerca de 1740. En Chacao cerca de la población de Caracas se levantaron en 1784 las primeras plantaciones cafetaleras en la hacienda Blandin, gracias al esfuerzo de Bartolomé Blandin o Blandain. Más tarde esa experiencia fue secundada por los presbíteros Sojo y Mohedano, en las haciendas de San Felipe Neri, y La Floresta."[16] En el transcurso del Siglo XVIII el café continúo su expansión hacia Brasil, Venezuela, Colombia y Costa Rica.[17]

Historiadores como el coameño Ramón Rivera Bermúdez apuntan que las primeras siembras del arbusto en la Isla de Puerto Rico se establecieron en el Sur de la Isla en el Partido de Coamo.[18]

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[16] Historia del Café en Venezuela, S.A. Cafe Imperial, Copyrights, 2002.

[17] UNESCO/CLT/WHCArchaeological Landscape of the Firt Coffe Plantations in the South-East of Cuba. Desde Cuba fue introducido a Puerto Rico por gestiones que realizó el Gobernador Felipe Ramírez de Esternós, en 1736. Pág. 1.

[18] Rivera Bermúdez, Ramón, "La introducción del café en Puerto Rico tuvo su origen en las serranías de Coamo, Revista del Café, 30 (12) noviembre 1975: Págs. 11-13.

Desde Coamo el cultivo se extendió por la región Sur y Suroeste cultivándolo en fincas o "estancias" que se dedicaron a las siembras cafetaleras. Durante el periodo inicial, el café de Puerto Rico se vendía en "uva" (con la cáscara) a causa de que en este periodo se carecía en la Isla de la maquinaria necesaria para despulparlo y procesarlo. Entre 1787 y 1788 se introdujeron en Puerto Rico las primeras máquinas para el procesamiento del café "uva" y se exportaba a través de la Real Factoría hacia mercados en Europa.[19] Durante la revolución haitiana los hacendados cafetaleros franceses abandonaron Haití y se trasladaron a Cuba en las laderas de la Sierra Maestra y en el Oeste de Puerto Rico con sus esclavos y sus conocimientos de cultivo de la planta y de la maquinaria necesaria para lograr el procesamiento del grano. En 1776 se le otorga a Coamo el título de *Villa* con cabildo, justicia y regimiento. Un siglo después Coamo contaba con 32 casas y un hermoso paseo con la iglesia, y las dos ermitas conformando un hermoso espacio urbano.

> "En la misma llanura en que está el pueblo, hay un hermoso paseo en figura de triángulo: en una esquina está la iglesia parroquial; en las otras dos hay dos hermosas ermitas de la advocación de Nuestra Señora de Balbanera la una, y la otra de Nuestra Señora de la Altagracia. El vecindario, que se compone de 480 familias, con 4,317 almas, está repartido a mucha distancia en cuatro partes: una tiene sus haciendas en las montañas del Laivonito; las otras tres viven en Salinas, Juana Díaz y Coamo de Abajo en la costa del mar.[20]
>
> "El clima de este pueblo es saludable y templado; sus tierras por la mayor parte son pobres; sus bienes consisten en ganados, café, alguna porción de tabaco y maíz que todo pasa al extranjero, con las maderas de sus montes.[21]

[19] Pumarada O'Neill, Luis, La Industria cafetalera de Puerto Rico, 1736-1969, San Juan, Oficina Estatal de Preservación Histórica, 1990. Pág. 14.

[20] Abbad y Lasierra, Fray Iñigo, Historia Geográfica, Civil y Natural de la Isla de San Juan Bautista de Puerto Rico, Rio Piedras: Universidad de Puerto Rico, 1966. Pág. 114

[21] Ibid. Pág. 114.

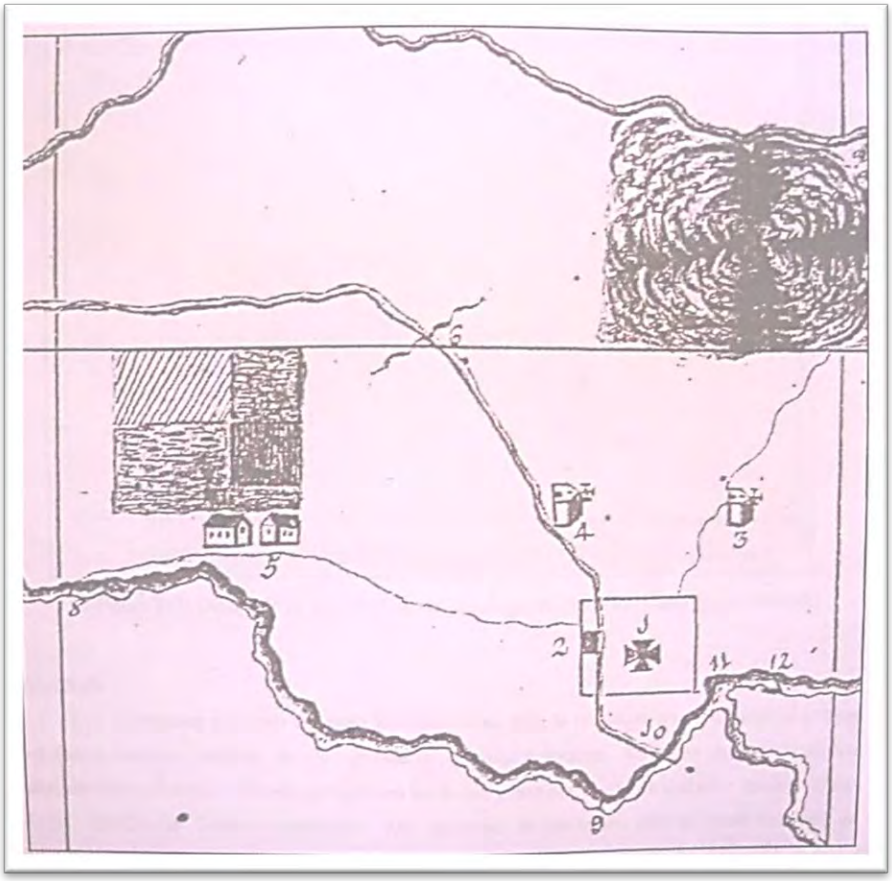


Figura 13: Plano de Coamo en 1813[22], se observa al "camino de indios" que se inicia en la costa Sur, en Santa Isabel, cruza el centro urbano de Coamo, cruza el río Coamo y continua hacia las montañas del Aibonito. Parte de este antiguo "camino de indio" se conoce hoy como calle José I. Quintón.

Al iniciarse el siglo XIX, el pueblo de Coamo estaba constituido por 38 casas y doce bohíos. La industria agrícola contaba con 23 trapiches de madera y un molino de café, tenían 50 cuerdas sembradas de caña y 114,000 pies de café. La ganadería y la agricultura constituían la industria principal de este partido. En 1824 la producción agrícola alcanzó los 150 quintales de azúcar, 3,400 quintales de café, 15 quintales de tabaco, 288 quintales de arroz, 439 fanegas de maíz y 288 quintales de arroz.[23] Durante el siglo XIX y la primera mitad del siglo XX Coamo se desarrolló como un municipio eminentemente agrícola y ganadero. Los principales productos agrícolas eran el café y el tabaco.

[22] A.G.P.R. Fondos Diputación Provincial Caja 319.

[23] Tomás de Córdoba, Pedro Tomas, De Córdoba, Pedro Tomás, Memorias Geográficas, Históricas, Económicas y Estadísticas de la Isla de Puerto Rico. Tomo II: 1968:377-384.

Para 1876 existían unas 158 estancias donde se cultiva café, tabaco y maíz. A finales del siglo XIX, Coamo contaba con una población de 15,144 habitantes y en 1970, la población del municipio había aumentado a 26,468 habitantes. A mediados del siglo XX, ya constituía uno de los principales municipios ganaderos de Puerto Rico.

En 1974 Coamo contaba con unas con 8 vaquerías de primera clase, que produjeron ese año 2, 860,063 cuartillos de leche. En la década de los 70's Coamo contaba con 18 agricultores dedicados a la siembra y cultivo de tabaco. Desde los tiempos de su fundación Coamo ha mantenido la tradición de celebrar el 3 de febrero con una gran fiesta dedicada a San Blas y, a la Virgen de La Candelaria.

### B. Desarrollo del Centro Urbano de Coamo

El poblado español establecido en esta zona en el siglo XVI toma su nombre del río que corre por su jurisdicción llamado por los indios taínos "Cuamo". En 1582 se menciona el puerto de Coamo en un informe del Capitán General de la Isla Jhoan de Melgarejo.

> "...más adelante, como dos leguas y media por la costa hacia el Este, se haya una baya, que llaman el puerto de ***Cuamo,*** y a la entrada dél, a la parte del Oeste, ay unos arrecifes y a la parte del Este dos ysletas, entrase por las ysletas y arrecifes, es puerto para nabios pequeños de a ciento y ciento cincuenta toneladas, aunque como no se llegue a tierra hay honduras para cualquier nabio,..."[24]

En 1582, existían unas veinte familias castellanas establecidas en las márgenes del río. Uno de sus fundadores, Don Cristóbal de Illescas donó los terrenos para establecer el poblado. El poblado fue localizado al norte de una gran aldea india. El pueblo inicialmente fue denominado San Blas de Illescas en honor al donante de los terrenos que sirvieron de emplazamiento al poblado. Diego Torres Vargas afirma que Coamo fue declarado pueblo en 1616, mientras Pedro Tomás de Córdoba afirma que fue en 1646. La Ermita de San Blas de Illescas fue fundada en 1582 por padre agustino Fray Diego de Salamanca. En el año de 1661 ya Coamo contaba con una iglesia construida en material de mampostería. Esta iglesia se convierte en Parroquia en 1645.

[24] Fernández Méndez: 1981:133

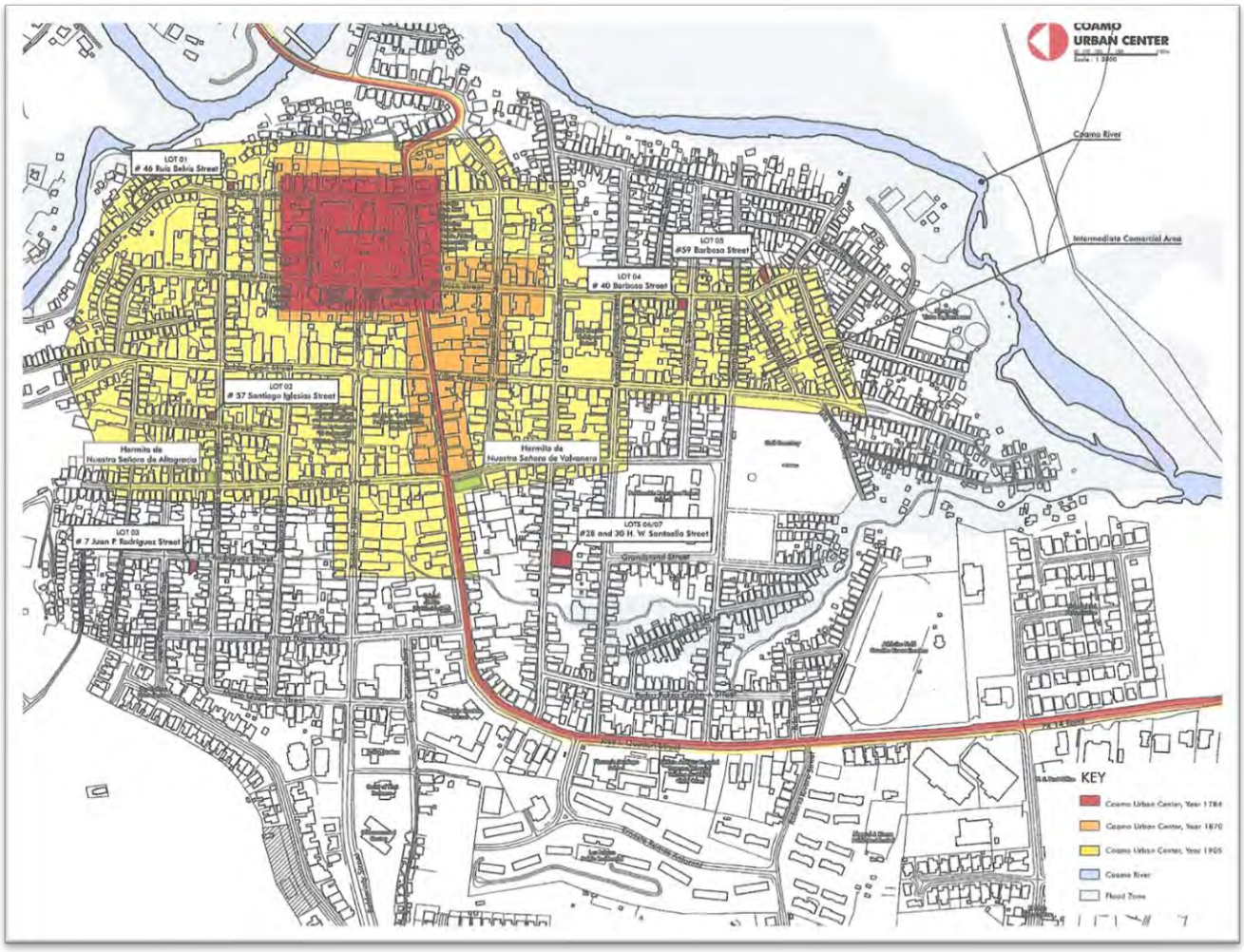


Figura 14: Crecimiento Urbano del Centro Histórico de Coamo. En color rojo se destaca el desarrollo urbano hasta el Siglo XVIII.[25]

Al iniciarse el Siglo XVII la zona urbana de Coamo era prácticamente inexistente. A finales de este siglo unas de 10 a 12 las casas construidas en los predios aledaños a la iglesia. La mayoría de la población de este municipio vivía dispersa en los campos de Coamo.[26] En 1776 se le otorga el título de Villa con cabildo, justicia y regimiento. Un siglo después Coamo contaba con 32 casas y un hermoso paseo con la iglesia, y las dos ermitas conformando un hermoso espacio urbano.

[25] Plano elaborado por la Arql. N. Medina-Carrillo y GA+NIF.
[26] http://www.coamo.puertorico.pr/historia_sigloXIX.html

Durante el Siglo XVIII aumentó el número de casas en la zona urbana de Coamo. Estas casas estaban construidas mayormente de madera rolliza o rústica, yaguas y paja. Luego se construyeron también de madera del país aserrada o de tablas de palmas o "tablaestilla". Revestían las casas con tejamaní y las techaban con tejas de terracota. Muy pocas casas en este siglo estaban construidas de mampostería. La gente más acomodada construía sus casas sobre estantes altos que parecían más bien palomares. En el plano de Coamo en 1784 de Ramón Rivera Bermúdez no se observan estructuras en el área general del proyecto bajo consideración. En este plano de 1784 se anota claramente la calle José I. Quinton como Calle Principal. Al iniciarse el siglo XIX, la población de Coamo estaba a unas tres leguas de la Costa Sur de la Isla. La jurisdicción del Coamo alcanzaba hasta la playa. El pueblo de Coamo estaba constituido por 38 casas y 12 bohíos en el pueblo y 377 casas y 17 bohíos en el campo. En 1824 unas 40 estructuras de vivienda conformaban el centro urbano de Coamo. La industria agrícola detallaba 23 trapiches de madera y un molino de café, tenían 50 cuerdas sembradas de caña y 114,000 pies de café. La ganadería y la agricultura constituían la industria principal de este partido. En 1824 la producción agrícola alcanzó los 150 quintales de azúcar, 3,400 quintales de café, 15 quintales de tabaco, 288 quintales de arroz, 439 fanegas de maíz y 288 quintales de arroz...[27] Durante el siglo XIX y la primera mitad del siglo XX Coamo se desarrolló como un municipio eminentemente agrícola y ganadero. Los principales productos agrícolas eran el café y el tabaco. Para 1876 existían unas 158 estancias donde se cultiva café, tabaco y maíz. Hacia finales del siglo XIX, Coamo contaba con una población de 15,144 habitantes.

Como muestra en el Plano de Coamo y sus Ejidos de 1870, la cuadricula urbana del centro urbano de Coamo inicia a desarrollar alrededor de las calles José I. Quintón, Mario Braschi y Barbosa, ***calle del Fuerte hoy José Celso Barbosa***, y su extensión como Dr. Santiago Veve, la calle Sol, y la calle **Florencio Santiago**. En este momento,

[27] De Córdoba, Tomás: Memorias: Geográficas, Históricas, Económicas y Estadísticas, de la Isla de Puerto Rico, San Juan: Instituto de Cultura Puertorriqueña, Tomo II, 1968. Págs. 377-384.

Figura 15: Centro Urbano de Coamo en 1824, Augusto Pleé.[28]

a finales del Siglo XIX, el área urbana donde localiza el solar de la Calle Barbosa se observa apenas iniciando el proceso de ocupación y el delineamiento de esta calle. Aun cuando durante los Siglos XVII y XVIII otras economías del Caribe conocieron periodos de prosperidad con el desarrollo de las plantaciones en la Isla de Santo Domingo y las colonias francesas, ya a mediados del 1700 disfrutaron un periodo de gran auge en sus economías de base agrícola. En el 1755, por primera vez en Puerto Rico, se sembró café en la Isla y este importante suceso inicio en el partido de Coamo. En el caso de la isla de Puerto Rico, no fue hasta alcanzado el siglo XIX, cuando comienzan a desarrollarse actividades económicas agrícolas a gran escala. Este impulso económico, a su vez, propició el crecimiento y ornato de los asentamientos urbanos de la Isla. Para

[2.8] Sepúlveda Rivera Aníbal, Puerto Rico Urbano, Volumen I, Pág. 50.

1824, Coamo ya contaba con más de 2,000 vecinos, 377 viviendas y 17 bohíos. El centro urbano contaba con 83 casas, ya existían dos escuelas, una pública y otra privada. La economía de Coamo giraba alrededor de la ganadería, el café, el tabaco y frutos menores.

Para 1866 se concluyó la construcción de la carretera Central la cual facilitó considerablemente el transporte terrestre a la zona y resultó un estímulo al progreso económico e impulso el desarrollo urbano.[29] Ya hacia finales del siglo XIX, el pueblo de Coamo tenía unas 500 viviendas de mampostería y madera y unos cien bohíos. Los habitantes del municipio aumentaron de 2,000 en 1824 a 15,000 a finales de este siglo. El cultivo del café se había extendido en los barrios Coamo Arriba y Hayales. Durante el transcurso del Siglo XIX la ganadería y el cultivo del café se constituyeron en las empresas agropecuarias de mayor importancia económica en el municipio de Coamo.
Fue durante la segunda mitad del siglo XIX cuando se intensificó el desarrollo urbano del pueblo de Coamo. En 1870 se realiza el trazado de las calles por el agrimensor Augusto Brachi. Este desarrollo urbano fue impulsado por las reformas económicas y la construcción de la carretera central en 1872.[30] El impulso económico y la facilidad de transporte trasformaron el centro urbano en un centro comercial regional de importancia, propiciando la construcción de almacenes y edificios comerciales a lo largo de la calle José I. Quintón.[31] El auge comercial, a su vez, atrajo a residentes permanentes a la zona urbana de Coamo.

Iniciado el Siglo XX, con la construcción del Acueducto y la Planta Eléctrica, el trazado de las calles se va ampliando y conformado la retícula urbana que reconocemos actualmente. Para 1900 existían unas 600 casas en la zona urbana, (el 20% era bohíos de paja y yaguas), unas 60 casas eran de construcción en mampostería y madera techadas en tejamaní o planchas de zinc.[32] Al alcanzar mediados del siglo XX (1950) el

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[29] http://www.coamomall.com/historia.htm
Una legua= 5.57 kilómetros
[30] Escala, Samuel Corchado Arquitectos, Pág. 3.
[31] Ibíd. Pág. 3
[32] Oficina Estatal de Conservación Histórica, La Arquitectura de Coamo. 1996. Pág. 11

crecimiento urbano se había contenido el centro urbano tradicional de Coamo. No obstante, luego de esta fecha se observa el inicio del crecimiento urbano hacia la periferia del Centro Urbano Tradicional.[33] En el transcurso del siglo XX la ocupación del Centro Urbano de Coamo se intensifica y extiende hacia las áreas prefiérales del centro Urbano Histórico Tradicional. Las fotografías aéreas de 1937, 1951, 1964 y 1985 muestran el proceso de densificación de viviendas en cada manzana urbana y la extensión de cuadras urbanas en dirección Sur y Oeste. Tal como se plantea en el análisis del Arquitecto Samuel Corchado a partir de 1964 inciden en el área urbana de Coamo proyectos amparados bajo los paradigmas de la arquitectura Moderna. Estos proyectos residenciales, se enclavan en el trazado tradicional del Centro Urbano y rompen con el entramado tradicional de este Centro Urbano Histórico.[34]

Sobre la base del entendimiento que la intervención en centros urbanos históricos en Puerto Rico amerita planeamiento, la Directora de Urbanismo del Departamento de Transportación y Obras Publicas en el 2002 contrato la preparación de un Análisis y Propuestas para la Revitalización del Centro Urbano de Coamo. En el documento se recomienda “promover la rehabilitación de estructuras y desarrollo de solares en ruinas para aportar a la rehabilitación del centro urbano de Coamo”.[35]

[33] Escala, Samuel Corchado Arquitectos, Pág. 3.
[34] Ibíd. Pág. 4.
[35] ESCALA: Corchado, Samuel, Análisis y propuestas para la revitalización del Centro Urbano de Coamo, 2002. Pág. 13.

Según se desprende del Plano del Centro Urbano de Coamo en 1784 de Ramón Rivera Bermúdez, a finales del siglo XVIII, no existía la calle Obispo Salamanca. La plaza pública se extendía hasta la calle del Río. Un siglo después, en 1870, la calle que actualmente se llama **Ermita** se conocía con el nombre de **Florencio**.

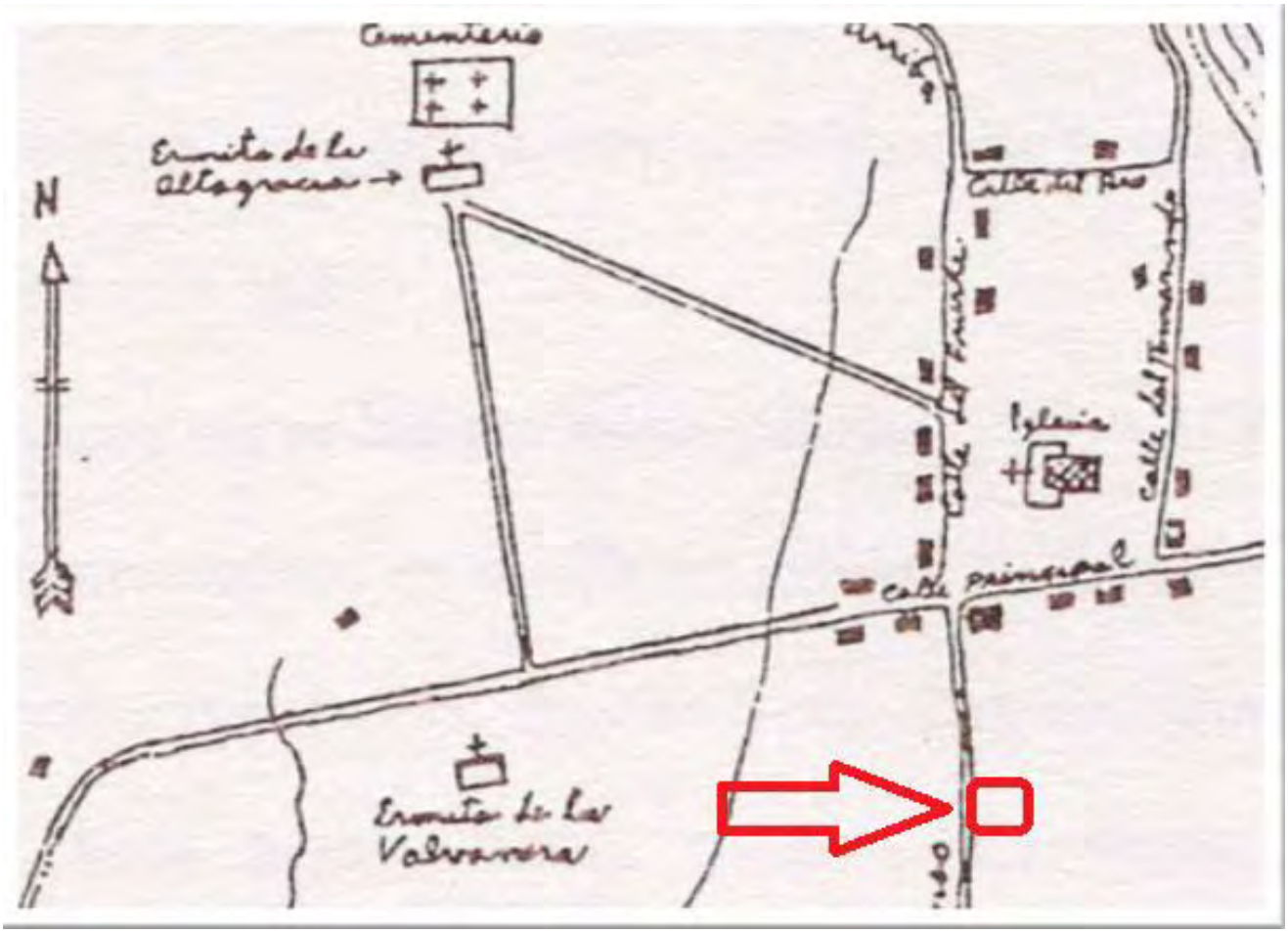



Figura 16: Detalle del Plano de Coamo en 1784 de Ramón Rivera Bermúdez. A finales del siglo XVIII, no existía la calle Ermita

Figura 17:
Coamo 1870. Desarrollo de la calle Ermita

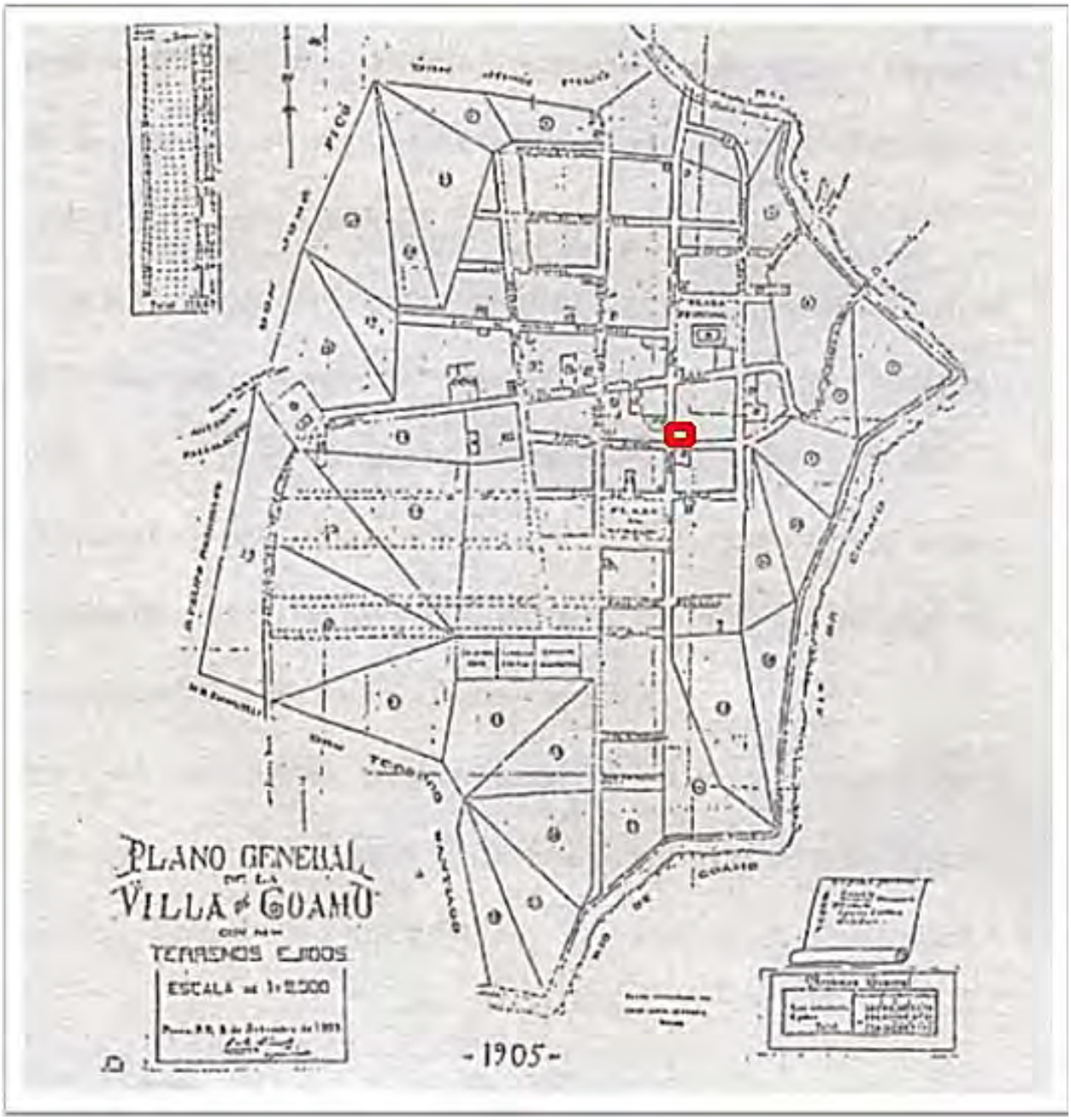



Figura 18:
Plano de Carlos Clausel, Centro Urbano de Coamo, 1905. La calle se observa definida.

### C. Recursos históricos de Coamo

El inventario de los recursos históricos de la Oficina Estatal de Conservación Histórica (OECH), tienen registrado varias estructuras para Coamo, La Iglesia San Blas de Illescas construida a finales del siglo XVII, la Ermita Nuestra Señora de la Valvanera (1685 y 1894), la Residencia Pico Pomar construida en los años 1840 y 1878 y la Residencia Casa Blanca, construida en 1865. Otras estructuras históricas son: Las haciendas Carmen, Córcega, Aguas Frías, Juan Ponce de León, Larrauri y Aurelia, al igual que las Casas de Camineros, la alcaldía, los Baños históricos de Coamo, puentes históricos y varias chimeneas.

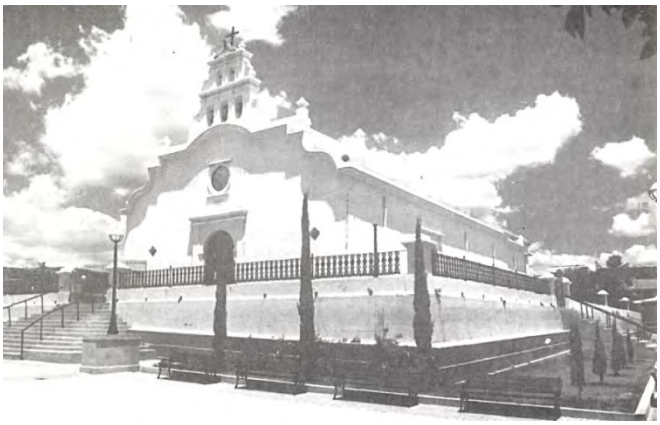
| Nombre | Localización | Tipología |
|---|---|---|
| Iglesia San Blas de Illescas | Pueblo | Iglesia |
| Ermita Nuestra Señora de la Valvanera | Pueblo | Iglesia |
| Residencia Picó Pomar | Pueblo | Residencia |
| Casa Blanca | Pueblo | Residencia |
| Puente de las Calabazas | Cuyón | Puente |
| Puente General Méndez Vigo | San Ildefonso | Puente |
| Puente Padre Iñigo | Palmarejo | Puente |
| Residencia Picó Pomar | Pueblo | Residencia |

1. Iglesia de San Blas de Illescas

La Iglesia San Blas de Illescas en Coamo, es uno de los monumentos arquitectónicos e históricos más importantes de Puerto Rico. La cronología de su desarrollo está aún por esclarecerse. Sin embargo, se sabe que la parroquia de Coamo es la tercera más antigua de la Isla, después de la de San Juan y la de San Germán. De acuerdo con el arquitecto Thomas S. Marvel y la historiadora María Luisa Moreno en su libro La Arquitectura de Templos Parroquiales de Puerto Rico, la estructura de la iglesia data probablemente de finales del siglo XVII o principio de XVIII.

La estructura, construida en mampostería y de estilo barroco, está localizada en un lugar prominente dentro de la plaza del pueblo. Su fachada principal, que por tradición mira al oeste, consiste en un plano sólido culminado por un parapeto curvo. La entrada principal está flanqueada por dos sencillas pilastras coronadas por pináculos. Un óculo termina la composición sobre la única entrada. Los pináculos de los contrafuertes se proyectan en la fachada. La espadaña sobre el parapeto fue probablemente añadida en la segunda mitad del siglo XIX.

La iglesia tiene una planta rectangular en tres naves y guarda en su interior importantes obras de arte: una pintura de José Campeche y otra de Francisco Oller. conserva, además, una importante colección de esculturas religiosas. (OECH 1995)



Iglesia San Blas de Illescas (1995)

Iglesia San Blas de Illescas (2009)

2.Ermita Nuestra Señora de la Valvanera

La ermita Nuestra Señora de la Valvanera en Coamo fue construida entre 1684 y 1685, luego de que una epidemia de cólera azotará el pueblo. Una vez aplacada la epidemia, Don Mateo García, devoto de la Virgen de Valvanera, inició las gestiones para construir la ermita (Valvanera en un lugar en España, asociado a esta virgen desde la Edad Media).

Una ermita es un santuario o capilla, generalmente pequeña, situado por lo común en un lugar despoblado y que no suele tener culto permanente. Nuestra Señora de la Valvanera, construida en mampostería, tiene una planta rectangular que consiste en una sola nave dividida en dos secciones: la nave y el ábside. El piso del coro es de construcción reciente, sin embargo, la balaustrada, de madera original, fue conservada al igual que las puertas de madera de la entrada y lateral.

En 1894, se llevó a cabo un proyecto de reparación de la antigua ermita. En este proceso, se utilizó parte de los cimientos y las paredes originales, sin embargo, su fachada fue totalmente transformada. Durante esta intervención, se abrieron dos ventanas en el área del ábside y el techo se reemplazó por uno de hormigón armado. No obstante, la morfología de la estructura permanece inalterada. (OECH 1995)

Ermita Nuestra Señora de la Valvanera (1995)

Ermita Nuestra Señora de la Valvanera (2009)

2. Residencia Picó Pomar

La Residencia Picó Pomar fue construida en 1849, por Don José Pomar en el estilo austero y tradicional del neoclásico español. La estructura es uno de los mejores ejemplos en Coamo de este estilo.

El edificio sigue la organización tradicional de pianterrero en el primer piso y piano nobile en el segundo piso. El pianterrero era el nivel dedicado al comercio y almacenaje. El piano nobile se utilizaba para la residencia familiar, las reuniones privadas y los actos importantes. Originalmente, la fachada que da hacia la calle Quintón, solo tenía dos aperturas y se extendía hasta la pilastra monumental de orden toscano. En 1863, compra la casa Don Clotilde Santiago, que para1878, se había encargado de ampliar la estructura utilizando el mismo vocabulario estilístico.

Es en ese momento en que se extiende la fachada en la Calle Quintón. Su condición de esquina se enfatiza con el uso de la curva. Al extremo de la fachada está la entrada, de un nivel, a la cochera. Todas estas reformas hacen que la estructura tenga una planta en forma de U, con un ala más larga que la otra y un patio en forma de L. La planta se organiza en fila de (distribución tradicional de las áreas en hileras sin pasillos), enfatizando las áreas públicas de la casa y el patio. Las dependencias privadas dan al patio.

La propiedad y su contenido fueron comprados por el gobierno municipal y convertido en el Museo histórico de Coamo, en el que exhibe memorabilia de la familia Santiago y una colección de retratos históricos y pinturas. (OECH 1995)

Residencia Pico Pomar (1995)

Residencia Pico Pomar (2009)

3. Casa Blanca

La Casa Blanca fue diseñada por el arquitecto Raymundo Camprubí en 1865. Su estilo arquitectónico corresponde al Criollo o Vernáculo que se desarrolló desde la segunda mitad del siglo XIX. El nombre de la casa surgió por el color blanco con que la pintaron desde su construcción.

La estructura esta levantada sobre columnas y paredes de mampostería. El sótano de la casa se utilizó como bodega d vinos, vivienda para los sirvientes y cuarto de huéspedes. Esta sección de la casa se proyectaba hacia fuera creando la base para el balcón frontal. El nivel principal está construido en madera con techo a cuatro aguas, cubierto de planchas de zinc. La fachada nos presenta un balcón continuo al cual se accede, en un centro, por la escalera doble. Originalmente, cuatro pares de puertas de celosías accedían a la casa desde el balcón. Actualmente, dos de esas puertas se han convertido en ventanas. El techo del balcón se sostiene con ocho columnas de madera y está enmarcado por una balaustrada.

Dos portones de hierro, enmarcados con pilares de mampostería, dan paso a dos escaleras de mármol que llegan a la entrada de la casa. Por el este y el oeste de la propiedad corren dos paredes de seis pies de alto hechas en piedra y mampostería.

Estas paredes fueron construidas por decreto real para evitar que, e caso de fuego, el mismo se propagase. Al extremo este de la pared hay un portón de entrada a la cochera.

Esta estructura permanece como uno de los legados arquitectónicos del pueblo de Coamo y como un excelente ejemplo de la vivienda de la clase acomodada durante el siglo XIX. (OECH 1995)

Casa Blanca (1995)

Casa Blanca (2009)

4. Puente de las Calabazas

El puente de las Calabazas (conocido también como Puente #175 o Puente Cuyón), está localizado en la Carretera #14 en el Kilómetro 39.3 [error 38.8] en el Barrio Cuyón de Coamo. Este puente se construyó para la sección Aibonito-Coamo de la Carretera Central. El puente de viga lateral de celosías de hierro, con 21.4 metros de longitud y 6.32 de ancho, proyecta 5.02 metros sobre la rivera del Río Cuyón. El proyecto de este puente fue reparado en 1875 por Raimundo Camprubí y Escudero, ingeniero primero del Cuerpo de Caminos, Canales y Puertos del Negociado de Obras Públicas.

Los componentes metálicos de este puente fueron fabricados por la firma constructora belga Eugene Rollin y Cía a un costo de 8,880 francos. En diciembre de 1877, los tramos en metal llegaron a Puerto Rico en un velero danés “Galeón” desde el puerro de Amberes, Bélgica. El ingeniero Camprubí completo la construcción de los estribos de silería y mampostería sobre unos cimientos de hormigón hidráulico y supervisó la instalación de los tramos de hierro. En 1882, se completaron los trabajos. El costo total del puente fue 59,608.23 pesetas.

El Puente de las Calabazas es importante como un ejemplo de la tecnología europea de puentes metálicos que se construyó a fines del Siglo 19 en la Isla. Además, el puente se distingue por ser parte de un sistema de transportación terrestre principal (la Carretera Central) construido durante el periodo español en Puerto Rico. El 17 de febrero de 2009 este puente fue incluido en el Registro Nacional de Lugares Históricos.

5. Puente General Méndez Vigo

El Puente Méndez Vigo está cerca de una curva en el kilómetro 30.4 de la ruta 14. El arco, adornado con relieves de diseño geométrico que parafrasean dovelas, sube desde impostas en ladrillo hasta más de 20 pie sobre el bonito río Las Minas. De la parte superior de sus muros frontales parten dos pies de amigo para sostener un voladizo de la carretera e hileras de parapetos enmarcados en ladrillo.

Los símbolos visibles en las claves de arco enmarcan su historia. Por un lado, se ve un relieve con forma de castillo, el símbolo del Cuerpo de ingenieros del Ejército de Estados Unidos, y por el otro, hay una placa en relieve que señala el hecho de que el puente fue reconstruido en 1898 por el Primer Regimiento del Quinto Batallón de ese cuerpo.

El puente mantiene un alto grado de integridad en su diseño, mano de obra, asociación, materiales y contexto. La estructura n ha sufrido alteraciones significativas desde su periodo de relevancia, y a pesar de alteraciones menores, el arco original ha mantenido su integridad.

El puente General Méndez Vigo, fue nombrado en honor al General Santiago Méndez Vigo, Gobernador de Puerto Rico, de origen español, de 1840 a 1844. La estructura es la única en mampostería en el segmento sur de la Carretera Central. El puente original fue diseñado por el ingeniero Timoteo Lubelza a un costo de 15,405 pesos, y construido en 1862.

Durante la Guerra Hispanoamericana en 1898, la estructura original del puente fue bombardeado por las fuerzas españolas, bajo la dirección del comandante español Rafael Martínez Illescas, para cubrir sus retiros a las montañas del norte de la cuidad de Coamo y para detener el avance de las tropas norteamericanas bajo el mando del General Wilson; dichas tropas venían desde Ponce.

6. Puente Padre Iñigo

El puente Padre Iñigo, construido en 1879, es el más antiguo de viga lateral de celosía en hierro. Diseñado por el ingeniero Raymundo Camprubí, un notable diseñador y constructor, el puente fue manufacturado por Eugene Rollin & Co., de Bélgica, por el costo de 29,590 francos. La estructura de 70 toneladas fue traída de Europa a bordo del barco “Galeón”. Sus cimientos tienen pilotes de madera de tres metros de profundidad.

El puente fue construido como parte de la Carretera Central, la primera en cruzar la Cordillera Central de Puerto Rico.

El puente de dos vigas continuas se encuentra abandonado junto al puente moderno del kilómetro 34.2 de la carretera núm. 14, que entre Ponce y Cayey corresponde a la antigua Carretera Central. Los estribos y la pilastra de 14 pies de altura son de mampostería con aristones y tajamares de sillería, así como almohadillas y cornisas. El tercio inferior del alma de las vigas está llena. Las vigas son continuas y están reforzadas con montantes, especialmente sobre la pilastra. El tablero es a base de vigueta y planchas de hierro.

La estructura no ha sufrido alteraciones significativas desde su periodo de relevancia, aunque su contexto fue alterado por la construcción del nuevo puente. DE todas maneras, el Padre Iñigo ha retenido su carácter esencial, incluyendo un alto grado de integridad de su diseño, asociación, mano de obra y materiales.

7. Otras estructuras históricas
   a. Alcaldía de Coamo.

b. Baños de Coamo

Baños históricos de Coamo (2009).

Estructuras históricas de los Baños de Coamo (2009)

Estructuras históricas de los Baños de Coamo (2009)

c. Puentes históricos carretera PR 14

Puente de hierro carretera PR 14 (2009)

d. Casa de Camineros

Casa de Camineros en la carretera PR 14 (2009)

Casa de Camineros en la carretera PR 14 (2009)

e. Obeliscos sobre acontecimientos de la Guerra Hispanoamericana

Obelisco en PR#14 (2009)

Tarja del Obelisco en PR#14 (2009)

Obelisco en PR#14 (2009)

Tarja del Obelisco en PR#14 (2009)

f. Chimenea histórica

Chimenea en Barriada Texas en Calle 26 (2009)

Chimenea en PR#14 (2009)

De los recursos históricos antes descritos y registrados en el Registro Nacional de Lugares Históricos, Los localizados en el casco urbano, son los más cercano al Proyecto Pisos de Coamo en el municipio de Coamo. Estos son: La iglesia San Blas de Illescas (130 metros al norte), Ermita Nuestra Señora de la Valvanera (195 metros al oeste), Residencia Pico Pomar (80 metros al norte) y Casa Blanca (87 metros al noreste).

**Planos y Fotos históricas de Coamo**

Figura #19 Coamo y su región (1775)
Sepúlveda, Puerto Rico Urbano, Vol. I p. 80

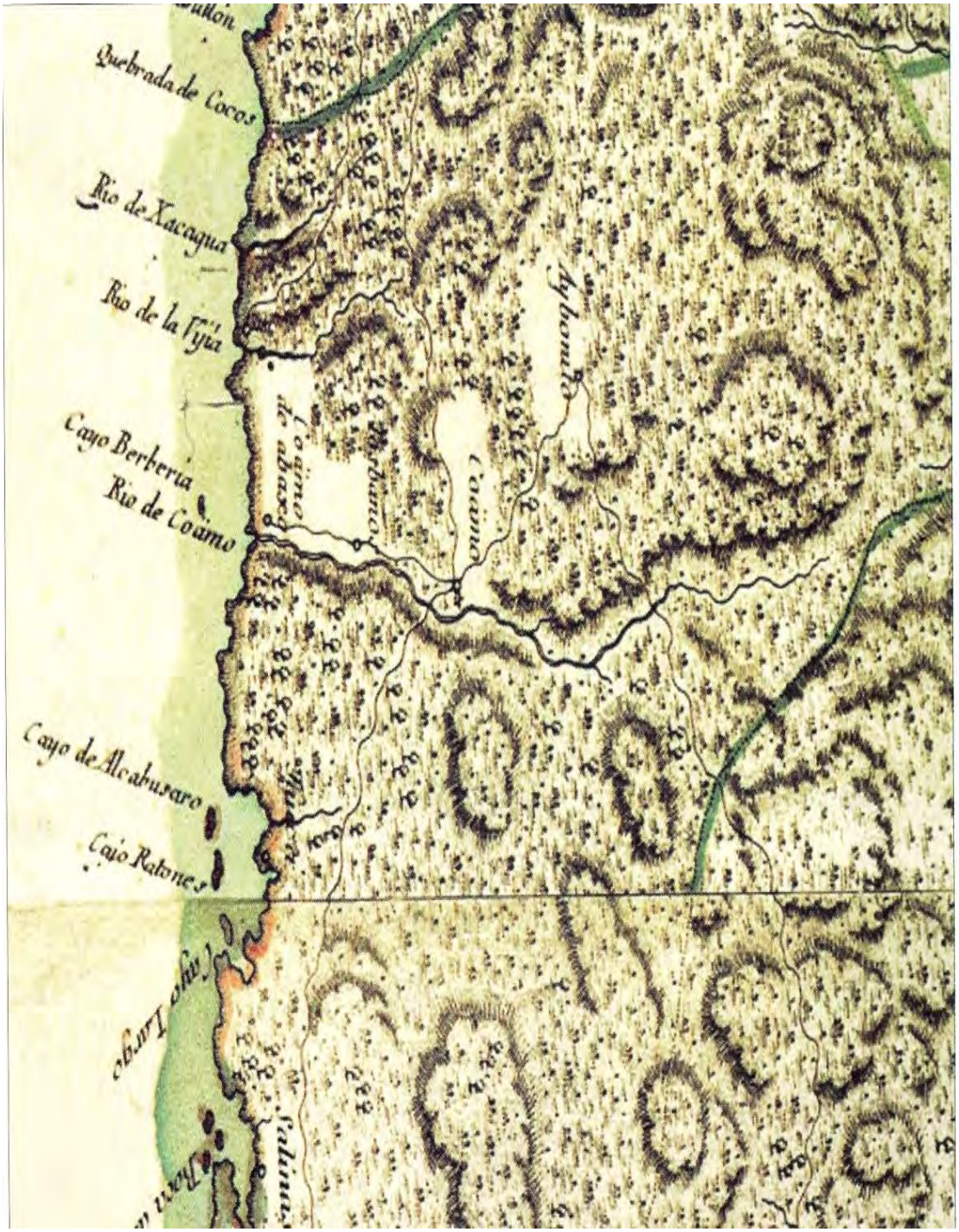



Figura #20 Coamo y su región (1791)
Sepúlveda, Puerto Rico Urbano, Vol. I p. 81

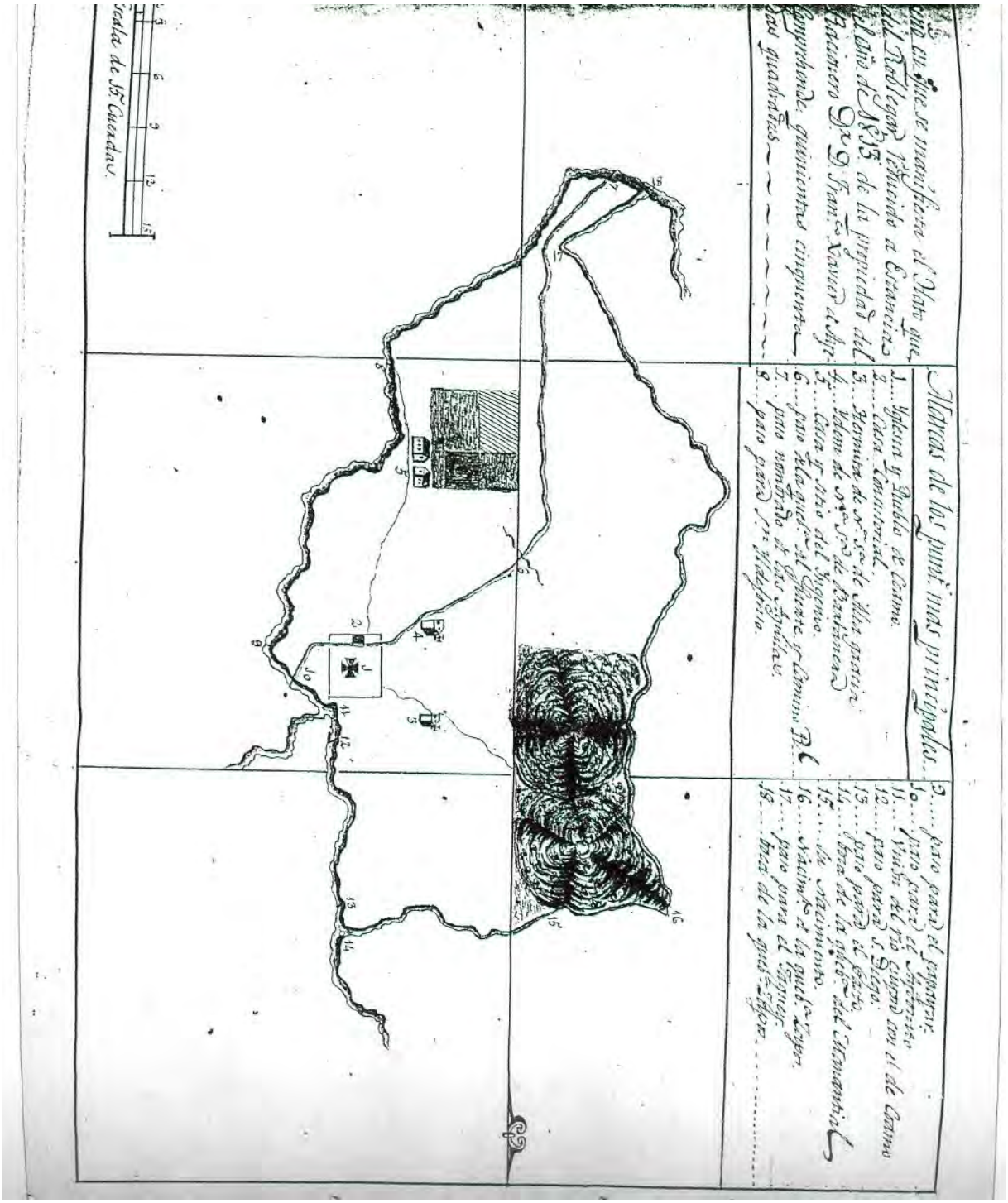



Figura #21 Coamo y su región (1813)
Sepúlveda, Puerto Rico Urbano, Vol. I p. 82

Figura #22 Dibujos de Iglesia de Coamo (1821)
Sepúlveda, Puerto Rico Urbano, Vol. I p. 82-83

Figura #23 Plano de Coamo (1878) con localización del proyecto
Sepúlveda, Puerto Rico Urbano, Vol. III p. 154

Para la fecha la cuadra de la calle Florencio (antes ermita) y la calle José Celso Barbosa (antes del Fuerte)

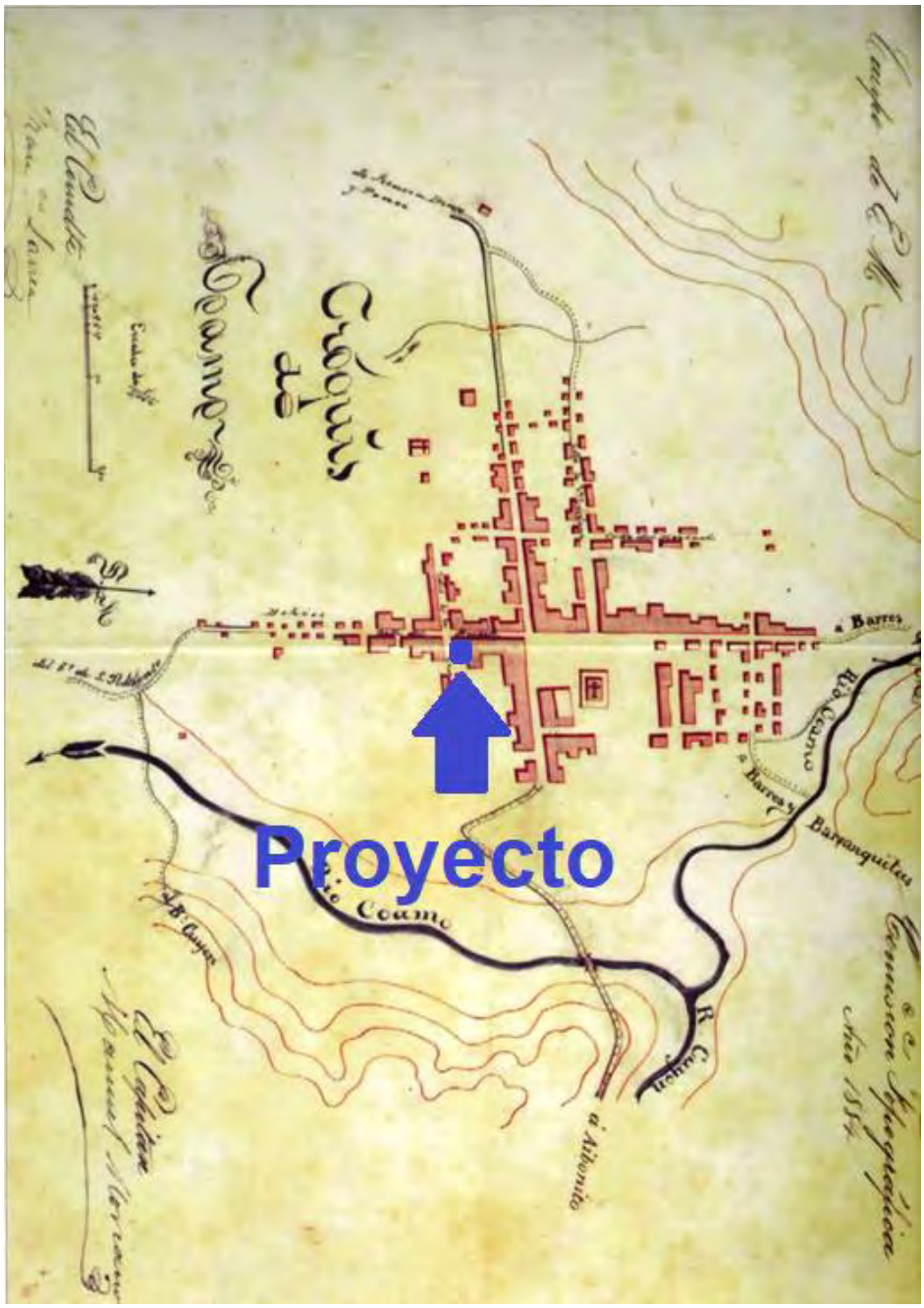



Figura #24 Borrador y croquis de Coamo (1884) con localización del proyecto Sepúlveda, Puerto Rico Urbano, Vol. III p. 155

Para la fecha la cuadra de la calle Florencio (antes ermita) y la calle José Celso Barbosa (antes del Fuerte)

Fotos aéreas del Proyecto:

Coamo 1936

Para el año 1936, se aprecia en la foto aérea, que en el predio se encuentra una residencia, que cubre gran parte del predio. Según la información recopilada, constaba esta estructura de un solo piso, construido en madera, Su balcón miraba hacia el oeste, (Calle José Celso Barbosa). Hacia el norte, se observa la plaza pública y por consiguiente el casco urbano del municipio de Coamo.

Coamo 1951

En la foto del 1951, se observa que la casa observada con anterioridad, no se encuentra. En el lugar se construyó otra estructura más pequeña que mira hacia el sur (Calle Florencio Santiago). Hacia la parte posterior, se encuentra un árbol de gran tamaño.

Coamo 1964

Para el año 1964, se observa la misma estructura observada en la foto del 1951. Con respecto al predio bajo estudio, no se evidencian cambios drásticos o sustanciales.

Coamo 1985

En la foto de 1985, con respecto al área bajo estudio, se continúa observando la estructura construida a mediados del 1940. Posteriormente esta estructura se demolió para construir un techo elevado utilizado en un “dealer” de autos.

**Registro de la Propiedad:**

De acuerdo con el documento notarizado de Compraventa del municipio. El predio bajo estudio no se encuentra en el Registro de la Propiedad. Sin embargo, en el mismo documento suministrado se encuentra los datos de la propiedad.

> Rustica: Solar sita en la Calle Dr. Barbosa esquina Ermita, hoy esquina Florencio Santiago de esta población , enclavado en la finca número 1049 de propiedad del Municipio de Coamo, Puerto Rico, con un área superficial de 445.54 metros cuadrados con lindes por el Oeste; en 18.85 metros, que es su frente de la referida calle; por el Sur: en 23.05 metros en límites con solar de la calle Ermita, hoy Florencio Santiago; por el Este: en 19.23 metros en lindes con sucesión Borelli que es el fondo del solar y por el Norte: en 23.03 metros con solar de la casa de Sucesión Borelli

**Patrón y uso de la Propiedad:**

De acuerdo con la información recopilada por los vecinos y transeúntes del lugar. En el lote se ubicaba una estructura residencial de la familia compuesta por Don Jesús Gervasio Bengoa y Carlota Rivera Rodríguez. El matrimonio no tuvo hijos. La morir los dueños, la casa fue comprada por el Dr. Guierbolini para dedicarla a alquiler. La casa fue demolida a mediados del 1940. En su lugar se construyó otra estructura que también fue demolida a mediados del 1990. Luego el terreno fue utilizado por el “dealer” de autos y se construyó una oficina de ventas y un techo de hierro galvanizado y aluminio. El mismo se evidencio durante el proceso de inspección de superficie. El “dealer” de autos culmino funciones a mediados del 2012, luego el espacio utilizado como oficina fungió como un puesto privado de venta de frutas y vegetales. Finalmente, el municipio compra la propiedad en el 2016 según el contrato de Compraventa.

**Inspección de superficie:**

La fase de inspección de superficie se llevó a cabo el día 27 del mes de febrero del 2020. Para lograr una mayor comprensión sobre el estado de situación del área, la inspección se contó con la participación de un (1) arqueólogo de campo y un (1) técnico de arqueología. Las observaciones obtenidas fueron compiladas en la descripción que ofrecemos a continuación.

El predio del Proyecto Pisos de Coamo se encuentra en la intersección de las calles Florencio Santiago y José Celso Barbosa en el casco urbano del Pueblo de Coamo. El área del proyecto es un lote completamente llano, asfaltado y con dos estructuras en su interior. Solo ubica un área verde, la cual se ubica en el extremo noreste de la propiedad.

Vista del lote desde a intersección de las calles Florencio Santiago y José C. Barbosa.

De las dos estructuras presentes en el predio, una de ellas, es un techo fabricado en hierro y aluminio que se utilizó por el “dealer” de autos”, para la presentación y venta de los diferentes vehículos. Esta tiene una altura estimada de diez (10) pies. El frente es por la calle José Celso Barbosa.

La otra estructura cuadrada es una construida en cemento donde fungía como oficina y luego como negocio de venta de frutas y vegetales. Esta tiene dos puertas con su frente para la calle Florencio Santiago. A la misma se le adoso una ampliación de madera en su costado oeste.

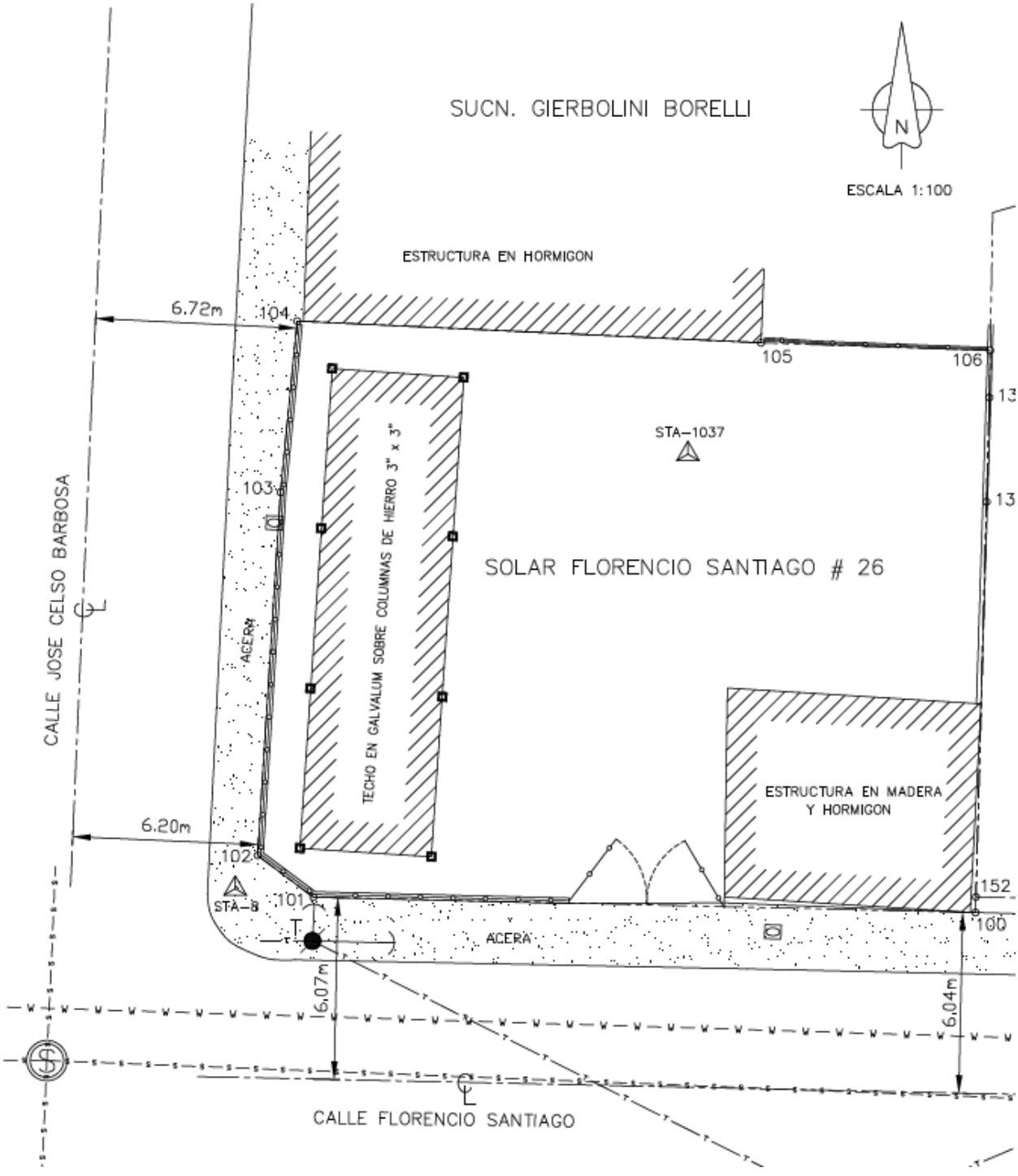



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Figura #25 Sección de la Vista del Plano de Mensura con sus dos estructuras

[36] Sección del Plano de Mensura. Suministrado por el Municipio

Vista de techo en el interior del predio

Vista de estructura de cemento dentro de la propiedad

Área verde en la sección noreste de la propiedad

Como hemos mencionado, dentro de la propiedad ubica una estructura de cemento. La misma fue abierta por parte del municipio para poder hacer un recorrido en su interior.

Vista del frente de la estructura

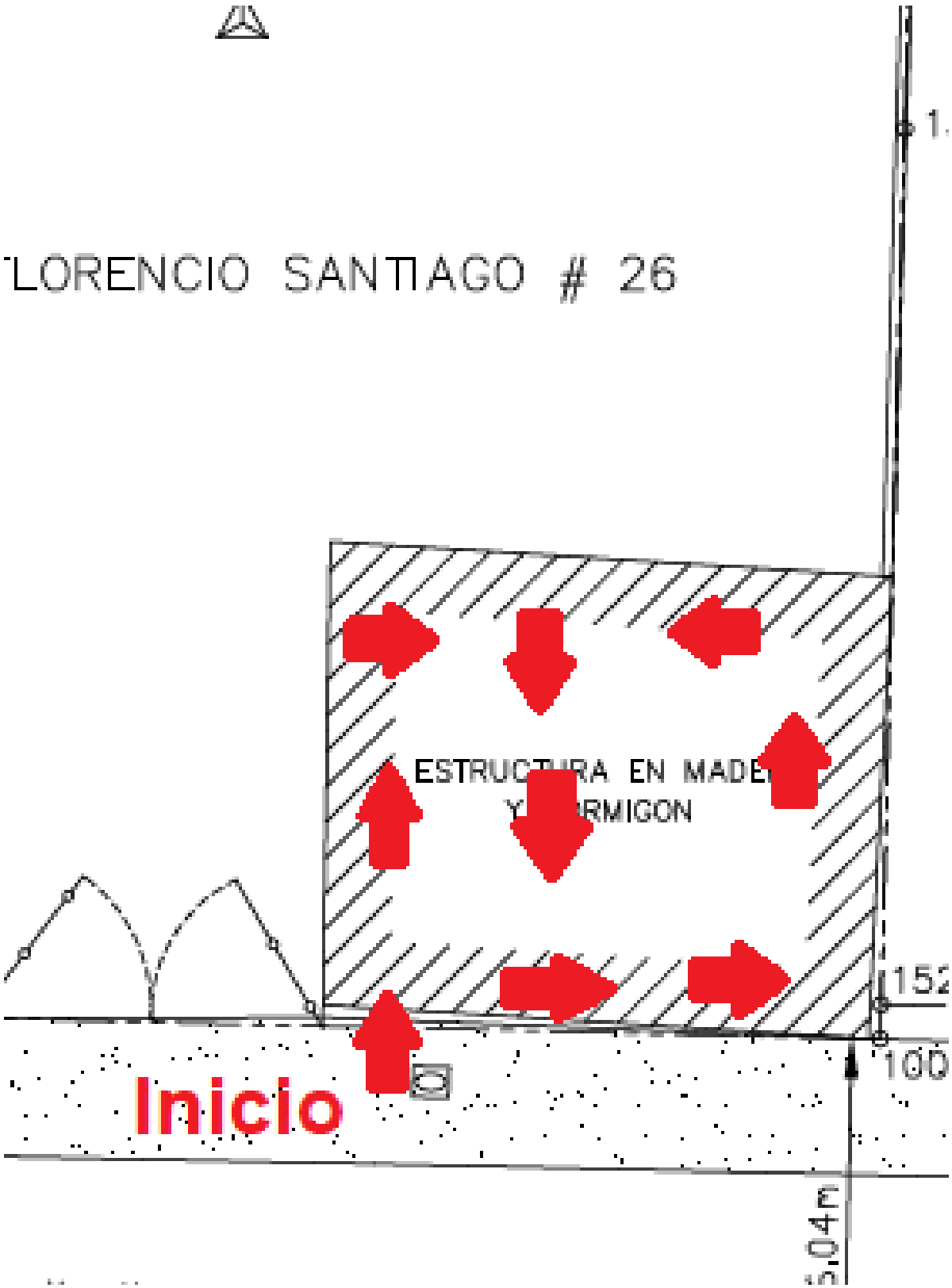


Figura #26 Recorrido dentro de la estructura

Se entró por la puerta oeste de la propiedad (sección adosada). Tal como mencionado, esta sección fue construida en madera. Hacia la parte este, se encuentra la parte construida en bloque y cemento.

Vista dentro de la estructura

Hacia el este, se encuentra una ventana, donde en la pared, se observa unos "stands" donde había una tabla, utilizada como vitrina

Vista de ventana

El piso está compuesto por una losa de cemento que cubre toda la estructura comercial. En su fondo, hay una sección donde había una pileta.

Vista de piso

Vista de conexión de agua donde había una pileta

Al entrar la parte construida de cemento, podemos ver en su interior, al segunda salida que se ubica hacia la calle Florencio Santiago.

Vista de segunda puerta desde el interior de la propiedad.

Hacia la parte posterior, se encuentra una sección donde se encuentran dos baños, uno de caballeros y otro de damas.

Vista hacia la parte posterior

Área de baños

Durante la inspección de superficie, realizada por el personal, se recorrió la propiedad en forma de zig-zag de este a oeste, buscando cualquier elemento en el suelo.

Finalmente, durante la inspección de campo en el predio donde está planificado el Proyecto Pisos de Coamo, en el municipio de Coamo, no se evidenció cortes y/o áreas expuestas. En la inspección de superficie, no se detectó evidencia alguna de material cultural prehistórico ni histórico en la superficie del terreno.

# INVESTIGACION FASE IB

**A. Fundamentos para la selección de la metodología:**

La estrategia seleccionada, se determinó por varias razones, principalmente por la topografía del lugar, la cercanía a fuentes de agua, áreas alimenticias y la sensibilidad arqueológica. En los mapas consultados en el Consejo de Arqueología Terrestre Instituto de Cultura Puertorriqueña, ubican varios recursos históricos localizados en las cercanías del proyecto.

Este conjunto se encuentra localizado a unos quinientos (500) metros al sur con respecto al Proyecto Pisos de Coamo. Sin embargo, el recurso codificado más cercano, lo es el CO-3 (Buenos Aires) contiene evidencia de un asentamiento (aldea) de la cultura "cedrosan saladoide" del periodo tardío, contiene evidencia de cerámica estilo Cuevas. Este yacimiento PRCO003 (Buenos Aires) presenta características multicomponentes. Este recurso, se encuentra ubicado a aproximadamente quinientos metros al sur, con respecto al Proyecto Pisos de Coamo

Otro factor es la cercanía a fuentes de agua potable y áreas alimenticias. A una distancia de quinientos cincuenta (550) metros aproximadamente al sur, se encuentra el Río Coamo, fuente de agua fresca y de alimentos con respecto al propuesto Proyecto Pisos de Coamo. Y por último es la topografía, el terreno es totalmente llano. Teniendo las condiciones actuales del terreno, en el área sería factible establecer cualquier asentamiento en el lugar.

En este caso, se realizaron las pruebas de terreno (catas) de forma mecanizada. Mediante el uso de un "bucket" de un (1) pies de ancho, se realizaron las diferentes catas. La distribución de los transeptos se orientó de sur a norte con una separación de cinco (5) metros. El material obtenido fue cernido usando una malla de ¼ de pulgada. Se nombraron los transeptos con la letra (A, B, C, etc.) y las catas con números (1, 2, etc.).

El ancho y profundidad de las catas, se determinó por la herramienta utilizada para hacer los mismos. Se propuso hacer catas de un ancho de cerca a los cuarenta (40) centímetros, una longitud de un (1) metro y una profundidad de un (1) metro. Con respectó a la profundidad de las mismas, es recomendable que se realicen a una profundidad mayor a los cincuenta (50) centímetros, debido a que cualquier recurso cultural regularmente se encuentra entre la superficie y los setenta (70) centímetros, pero depende directamente de las condiciones del terreno y su composición.

**B. Metodología de la Investigación:**

Luego de la Investigación de archivo de la Fase IA se procede con la investigación de campo de la Fase IB. En esta fase se realizan una serie de catas sistemáticas, para conocer si hay evidencia o ausencia de algún vestigio cultural en el predio bajo estudio

Al llegar al campo ubicamos nuestro Datum Point en el límite suroeste de la propiedad. Mediante el uso de cinta métrica y un pote de “aerosol” blanco se identificaron las diferentes catas dentro de la propiedad.

Identificación de catas utilizando cinta métrica

Marcación de catas en el predio

Vista de marcas dejadas en el predio

El total de catas que se planificaron en el predio del Proyecto Pisos de Coamo en el Barrio pueblo del Municipio de Coamo fue de catorce (14). Todas estas catas cubrieron la totalidad del área designada.

Proceso de realización de catas de forma mecanizada.

Proceso de realización de catas de forma mecanizada.

Proceso de realización de catas de forma mecanizada.

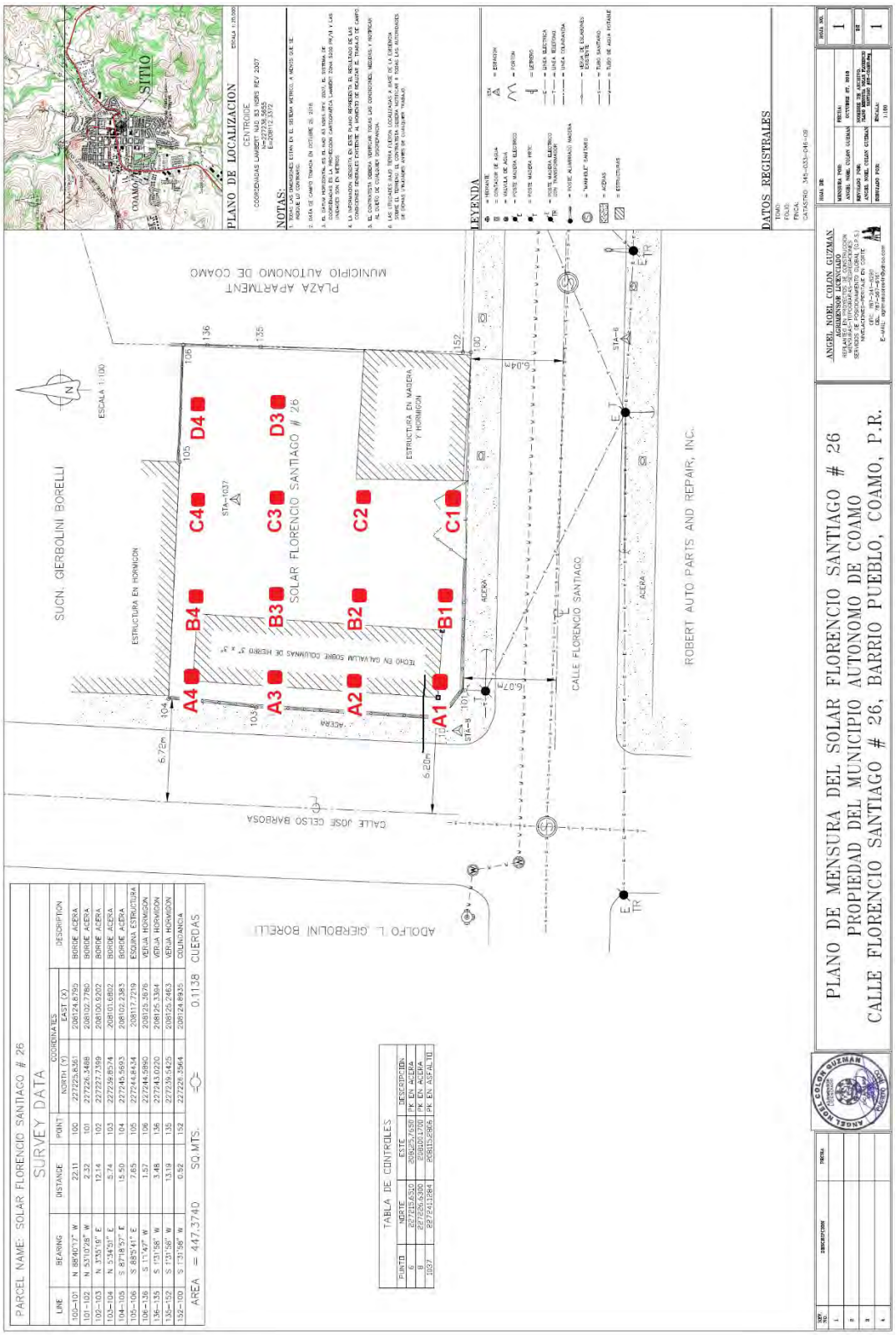


Figura #27 Localización de catas

**Tabla #2 Catas**

| Pozos | Profundidad | Resultado | Composición | Munsell |
|---|---|---|---|---|
| A 1 | 0.00 – 0.03 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.03 – 0.19 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.19 – 1.18 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4’45.60 N 66°21’24.51 W**

Cata A-1

| | | | | |
|---|---|---|---|---|
| A 2 | 0.00 – 0.04 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.21 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.21 – 1.09 m. | Negativo | Arcilla Marrón | 10YR ¾ |

**Coordenadas 18°4’45.76 N 66°21’24.50 W**

Cata A-2

| | | | | |
|---|---|---|---|---|
| A 3 | 0.00 – 0.04 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.26 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.26 – 1.11 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4’45.92 N 66°21’24.49 W**

Cata A-3

| | | | | |
|---|---|---|---|---|
| B 1 | 0.00 – 0.04 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.14 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.14 – 1.14 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4’45.56 N 66°21’24.28 W**

Cata B-1

| | | | | |
|---|---|---|---|---|
| B 2 | 0.00 – 0.04 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.11 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.11 – 1.05 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4’45.74 N 66°21’24.27 W**

Cata B-2

| | | | | |
|---|---|---|---|---|
| B 3 | 0.00 – 0.05 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.05 – 0.31 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.31 – 1.33 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4’45.90 N 66°21’24.23 W**

Cata B-3

| | | | | |
|---|---|---|---|---|
| B 4 | 0.00 – 0.06 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.06 – 0.20 cm. | Negativo | Relleno. Marrón claro con piedras | 10YR 6/8 |
| | 0.20 – 0.97 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4'46.12 N 66°21'24.25 W**

Cata B-4

| | | | | |
|---|---|---|---|---|
| C 1 | 0.00 – 0.06 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.14 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.14 – 0.49 m. | **Positivo** | Arcilla Marrón | 10YR 3/4 |

A la profundidad de 45 centímetros se encontró gran cantidad de ladrillos fragmentados

**Coordenadas 18°4'45.55 N 66°21'24.09 W**

Cata C-1

Cata C-1

Cata C-1

| | | | | |
|---|---|---|---|---|
| C 2 | 0.00 – 0.08 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.08 – 0.19 cm. | Negativo | Relleno. Marrón claro | 10YR 6/8 |
| | 0.19 – 0.62 m. | **Positivo** | Arcilla Marrón | 10YR 3/4 |

A la profundidad de 41 centímetros se encontró un piso de cemento con algunas fragmentaciones de ladrillos incrustados

**Coordenadas 18°4'45.76 N 66°21'24.10 W**

Cata C-2

Cata C-2

Proceso de limpieza del elemento descubierto en la Cata C2

Cata C-2

Cata C-2

| | | | | |
|---|---|---|---|---|
| C 3 | 0.00 – 0.07 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.07 – 0.15 cm. | Negativo | Relleno. Marrón claro con piedras | 10YR 6/8 |
| | 0.15 – 1.03 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4'45.93 N 66°21'24.07 W**

Cata C-3

| | | | | |
|---|---|---|---|---|
| C 4 | 0.00 – 0.04 cm. | Negativo | Asfalto. | 10YR 2/1 |
| | 0.04 – 0.21 cm. | Negativo | Relleno. Marrón claro con piedras | 10YR 6/8 |
| | 0.21 – 0.96 m. | Negativo | Arcilla Marrón | 10YR 3/4 |

**Coordenadas 18°4'46.12 N 66°21'24.08 W**

Cata C-4

D 3 0.00 – 0.15 cm. Negativo Relleno. Marrón claro con piedras 10YR 6/8
0.15 – 0.98 m. Negativo Arcilla Marrón 10YR 3/4

**Coordenadas 18°4'45.92 N 66°21'23.88 W**

Cata D-3

D 4 0.00 – 0.01 cm. Negativo Asfalto. 10YR 2/1
0.01 – 0.26 cm. Negativo Relleno. Marrón claro con piedras 10YR 6/8
0.26 – 1.00 m. Positivo Arcilla Marrón 10YR 3/4

A la profundidad de 30 centímetros se encontró varios fragmentos de ladrillos

**Coordenadas 18°4'46.10 N 66°21'23.87 W**

Cata D-4

Proceso de limpieza de ladrillos descubiertos en la cata D4

**C. Resultados de las catas realizadas:**

En el Proyecto Pisos de Coamo se planificaron un total de catorce (14) catas de forma mecanizada, sin embargo, se procedieron a realizar trece (13) de ellas. La cata faltante (A4), no puedo ser realizada porque donde ubicaba la misma, había un vehículo.

Vista del vehículo donde se ubicó la Cata A1

El predio es completamente llano. Las catas se establecieron y se realizaron en dirección de sur a norte. El proceso de excavación llevo a cabo realizando catas de forma mecanizada con una distancia establecida de cinco (5) metros entre sí.

En todas las catas se encontró una capa de asfalto, luego una subbase, compuesto de un relleno compacto en superficie de un color marrón amarillento (10yr 6/8) y en su interior de un marrón más oscuro (10YR 3/4). Todas las catas finalizaron a una profundidad que oscilaba entre los noventa (90) centímetros a un (1) metro.

El resultado obtenido en las excavaciones realizada fue positivo a elementos históricos. Entre las catas realizadas, la excavación C-1, C-2 y D4, evidenció fragmentaciones de ladrillos. De éstas, la cata C1 y C2 fueron las dos más importantes en el aspecto arqueológico. La cata C1, a la profundidad de cuarenta y cinco (45) centímetros se evidenció un área particular donde se encontró una capa de grandes cantidades de ladrillos fragmentados. No hubo una estructura en particular, sino más bien elementos sueltos. Por otra parte, en la cata C2, a la profundidad de los cuarenta (40) centímetros se evidenció el límite sur de un piso de cemento con algunas incrustaciones de ladrillo. Este piso es mayormente construido en cemento. De acuerdo con la excavación, este piso se extiende hacia el norte, sin embargo, no fue encontrado en la cata C3.

# Conclusión y Recomendaciones:

La investigación de archivo como parte del proceso de investigación arqueológica a nivel de Fase IA, demostró unos resultados de gran relevancia para el proceso investigativo.

En el análisis de los informes cercanos a nuestro proyecto, fueron consultados varias investigaciones arqueológicas, de los cuales, se evidenció que algunos presentaron elementos positivos a recursos históricos, principalmente los que se encontraba en el centro urbano de Coamo. En los archivos del Consejo de Arqueología Terrestre y la Oficina Estatal de Conservación Histórica, no reveló presencia de evidencia arqueológica prehispánica en el área del Proyecto Pisos de Coamo.

De acuerdo con los cuadrángulos consultados en el Consejo de Arqueología Terrestre, indican un conjunto prehistórico codificado como CO-3, localizado a unos quinientos (500) metros al sur con respecto al Proyecto Pisos de Coamo.

Luego de realizar un recorrido de superficie se obtuvo resultados negativos a material arqueológico. Luego se procedió con la siguiente fase de investigación a nivel de Fase IB. Durante la fase de campo, se realizaron trece (13) catas mecanizadas a lo largo de la propiedad. Los resultados de las catas realizadas, concluyó con la se evidencia de material histórico en tres (3) de ellas. Estas son las catas codificadas como C1, C2 y D4.

Basado en los resultados obtenidos, concluimos que al presente existe evidencia de vestigios arqueológicos históricos en la parcela urbana donde ubica el proyecto Pisos de Coamo. Apoyado en lo anterior, es nuestra recomendación a las agencias gubernamentales evaluadoras que se le solicite Monitoria Arqueológica al proyecto Pisos de Coamo durante la fase que requiera de excavaciones.

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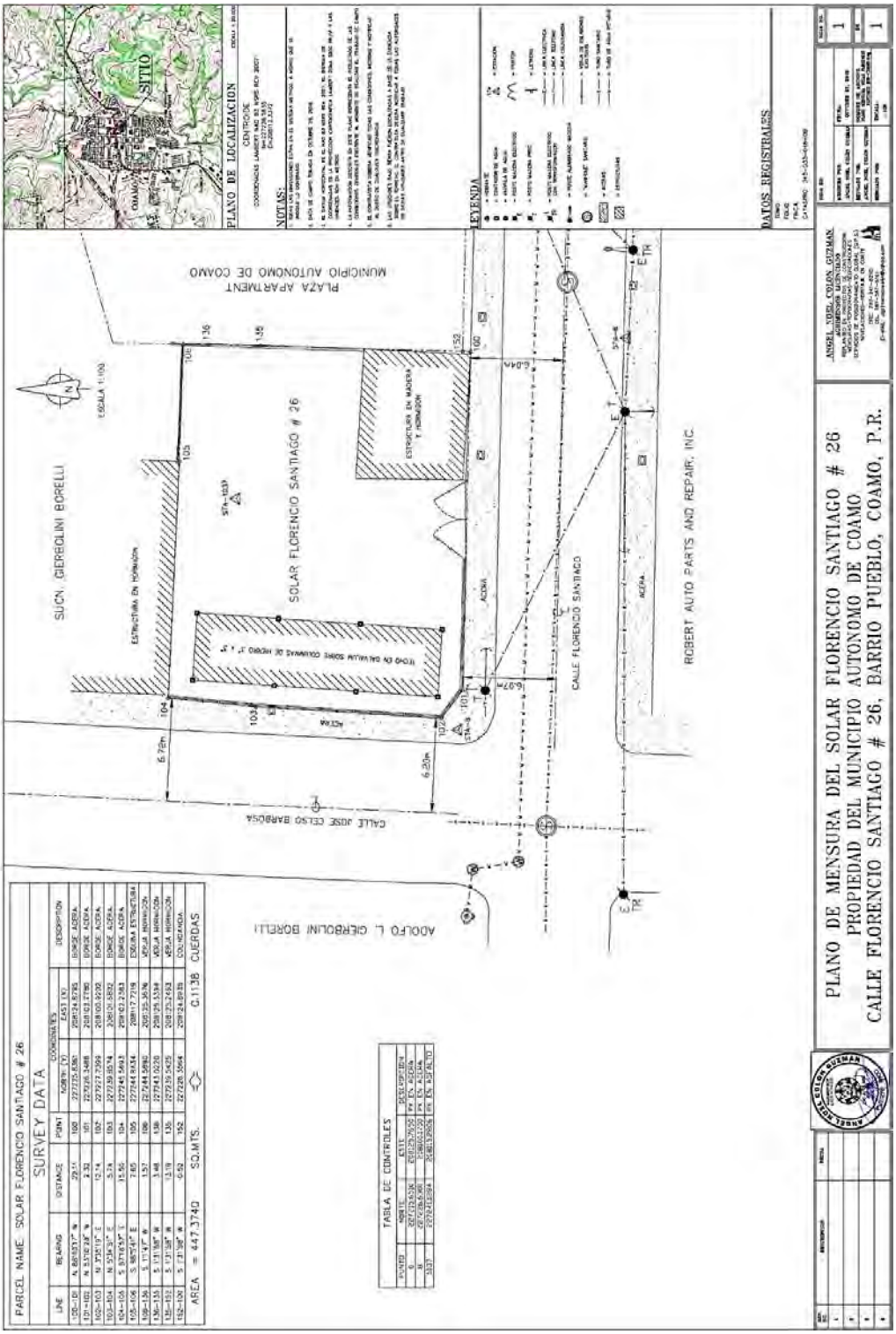
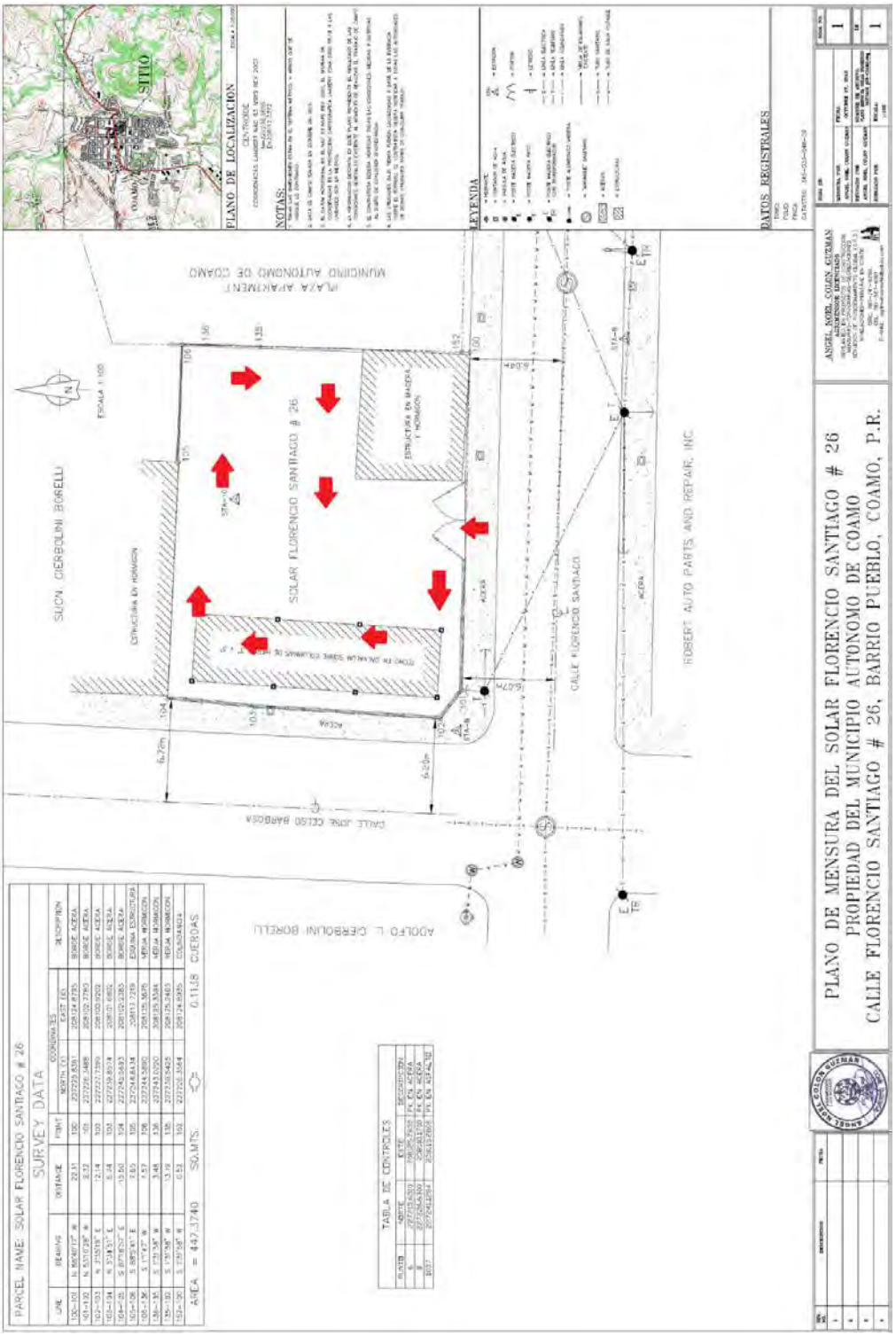
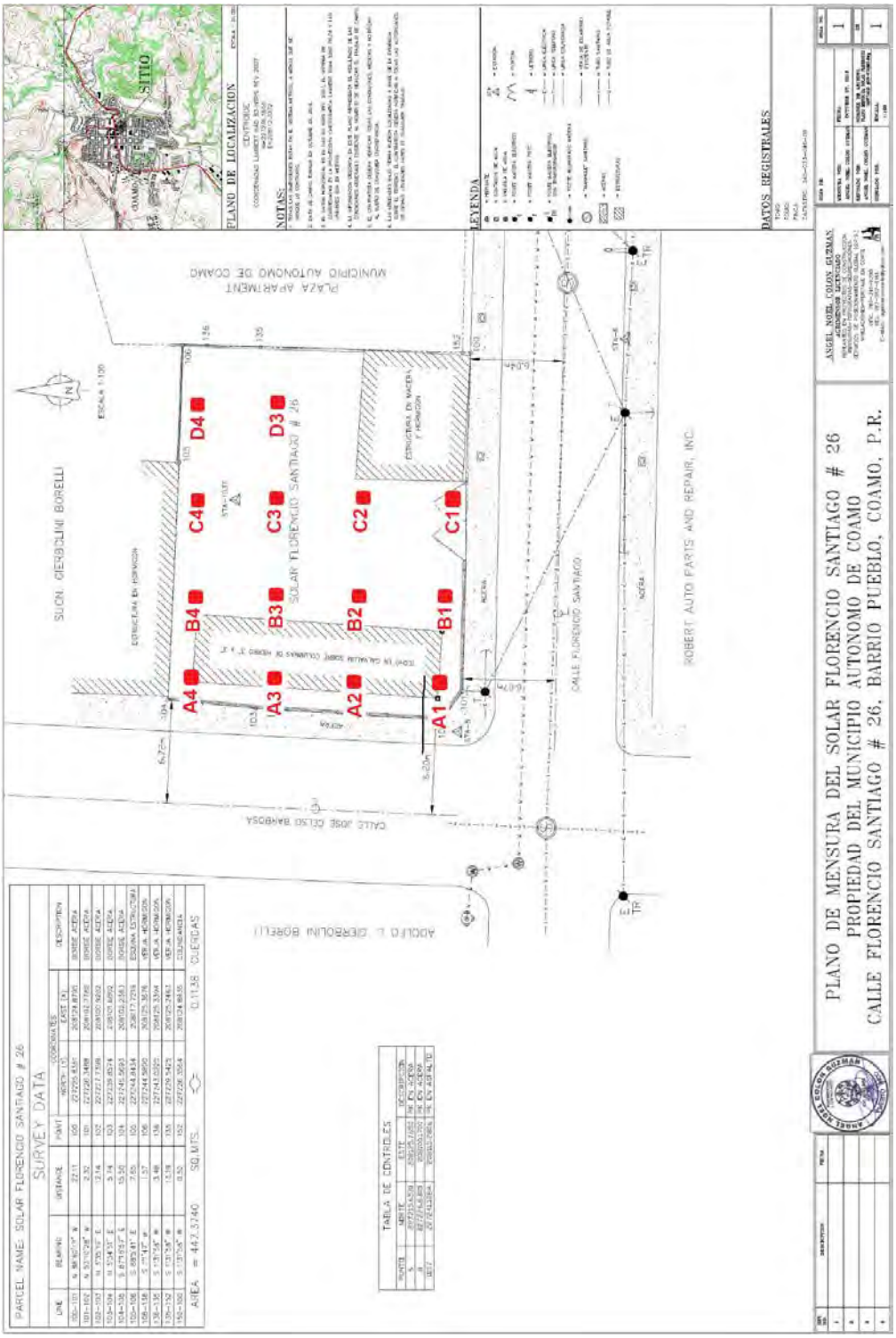
## Anejos

A.
Plano de mensura del proyecto
B.
Plano con el Recorrido Efectuado
C.
Plano de mensura con la ubicación de las catas
D.
Figura del desarrollo propuesto
D.
Carta del ICP


PLANO DE MENSURA DEL SOLAR FLORENCIO SANTIAGO # 26
PROPIEDAD DEL MUNICIPIO AUTONOMO DE COAMO
CALLE FLORENCIO SANTIAGO # 26, BARRIO PUEBLO, COAMO, P.R.
SOLAR FLORENCIO SANTIAGO # 26
SUCN. GIERBOLINI BORELLI
ROBERT AUTO PARTS AND REPAIR, INC.
CALLE FLORENCIO SANTIAGO
CALLE JOSE CELSO BARBOSA
ADOLFO L. GIERBOLINI BORELLI
MUNICIPIO AUTONOMO DE COAMO
PLAZA APARTMENT
ESTRUCTURA EN MADERA Y HORMIGON
ACERA
PLANO DE LOCALIZACION
SITIO
NOTAS:
LEYENDA
DATOS REGISTRALES
PARCEL NAME: SOLAR FLORENCIO SANTIAGO # 26
SURVEY DATA
AREA = 447.3740 SQ.MTS. = 0.1138 CUERDAS
TABLA DE CONTROLES
ANGEL NOEL COLON GUZMAN




Plano de mensura con el recorrido efectuado




Plano con la ubicación de las catas

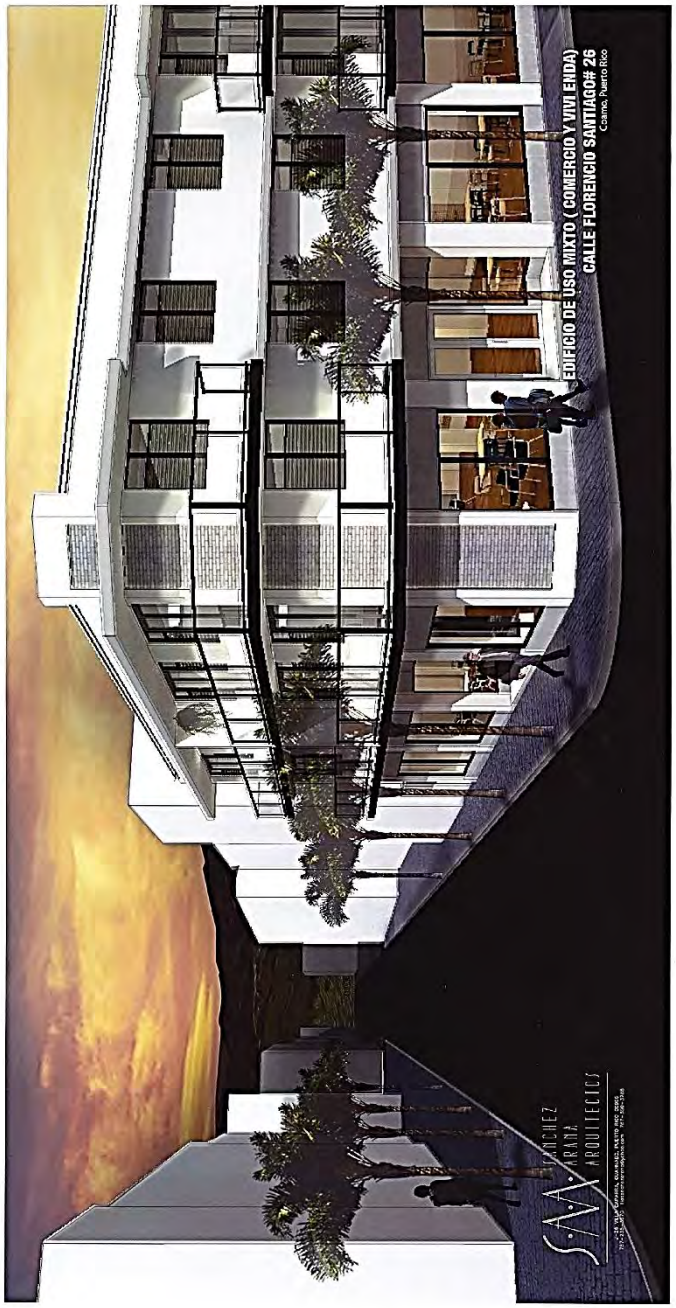



Figura del desarrollo propuesto

GOBIERNO DE PUERTO RICO
Instituto de Cultura Puertorriqueña

13 de enero de 2020

***"SOLICITUD DE ESTUDIO ARQUEOLÓGICO"***

Ing. Gabriel Hernández Rodríguez
Sistema Integrado de Permisos
PO Box 41118
San Juan, Puerto Rico 00940

**PISOS DE COAMO**
**CALLE FLORENCIO SANTIAGO #26**
**ESQ. CALLE BARBOSA, COAMO**
***CASO OGPE #2019-295028-REA-003712***

Estimado ingeniero Hernández:

El Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña ha evaluado los documentos relacionados al proyecto de referencia, recibidos a través de la División de Arqueología y Conservación Histórica de la Oficina de Gerencia de Permisos.

Como resultado de esta evaluación, hemos llegado a la conclusión de que existen posibilidades de que las actividades de desarrollo que contempla este proyecto pudieran afectar recursos de naturaleza arqueológica. La evaluación fue realizada conforme a las disposiciones de la Sección 10 de la Ley 112 del 20 de julio de 1988, conocida como la Ley de Arqueología Terrestre de Puerto Rico.

Para corroborar dicha información, el proponente deberá someter, para nuestra evaluación y determinación, los resultados de una evaluación arqueológica **Fase IA-IB,** conforme a los artículos 6 y 7 del Reglamento para la Radicación y Evaluación Arqueológica de Proyectos de Construcción y Desarrollo #8932, Segunda Parte, revisado el 8 de febrero de 2017), **en original debidamente encuadernado y copia en CD Rom en formato de PDF con el respectivo pago de cuota de $200.00.** Deberán ser radicados en el Programa de Arqueología y Etnohistoria del Instituto de Cultura Puertorriqueña, localizado en el Viejo San Juan. Los documentos solicitados deberán ser preparados por un arqueólogo cualificado para estos niveles de investigación por el Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico y cumplir con todos los requerimientos del Reglamento para la Radicación y Evaluación de Proyectos de Construcción y Desarrollo.

Se le apercibe que el incumplimiento con estos requerimientos podrá ser objeto de sanciones administrativas según lo establecido en la citada ley.

Cualquier duda relacionada con este documento puede comunicarse con el evaluador a cargo.

Cordialmente,

Dr. Carlos Pérez Merced
Director Interino
Programa de Arqueología y Etnohistoria

CPM/GOE/mgb

**PROGRAMA DE ARQUEOLOGÍA Y ETNOHISTORIA**
Apartado 9024184, San Juan, Puerto Rico 00902-4184
Teléfono: (787) 723-2524 / (787) 724-0700 ext. 1362

Carta del ICP

# Archaeological Survey Work Plan presented to conduct the Archaeological Phase II for PR-CRP- 000145 "Proyecto Residencial Comercial Pisos de Coamo"

FS26 - SHPO 03-08-21-04

Presented by:

Lapislázuli, Inc.– Norma Medina Carrillo, Ph.D
#34 Corrientes Street, Riachuelo, Trujillo Alto, PR.

Submitted to:
Puerto Rico State Conservation Office

April 22, 2024

## I. Introduction

We present the Phase II archaeological research plan for "Proyecto Residencial Comercial Pisos de Coamo" in the traditional historic center of the municipality of Coamo. The plan is to conduct the archaeological Phase II requested by PR-SHPO for the "Proyecto Residencial Comercial Pisos de Coamo" project. The project is in the Pueblo neighborhood of the municipality of Coamo. An archaeological evaluation Phase IA-IB was required by the Archaeology and Ethnohistory Program of the ICP. The IA-IB Phase Archaeological Report was presented in March 2020 with positive results and the recommendation of an archaeological monitory during the excavations required by the project.

In accordance with the established parameters, the evaluating party considers that there is a possibility that the development activities contemplated by this project could affect resources of an archaeological nature. The present proposal for the realization of an archaeological Phase II would extend over a period of approximately four weeks of duration during the field works. An archaeological report Phase II will be completed and submitted to the PR-SHPO for evaluation and comments. A detailed documentation and description of the Phase II investigations will be presented as part of the report. The Phase II report will include recommendations to the contractor and the regulatory agency related to the results of the archaeological investigation.

## II. Project Location

The Phase II study will be conducted in a lot owned by the Municipal Government of Coamo. The study area consists of a municipal urban parcel of 477 square meters The urban lot presents two structures: one is a metal roofing located in the West limit of the parcel and one cement structure located in the Southeast corner of the parcel (Figures 2 and 3). The project is in coordinates X 208102.7780 and Y 227226.3488. The property is located at the intersection of Florencio Santiago and José Celso Barbosa streets in the urban area of the Town of Coamo. The plot under evaluation in Phase II is located in the historic area of the urban center of Coamo, in whose limits several revitalization projects have already been developed such as those directed by the Urbanism Office of DTOP in the years 2002-2004 and, subsequent ones where the municipal administration has given continuity with its fiscal resources and other sources identified to follow the urban planning scope of work.

*Figure 1: Project location, "Proyecto Residencial Comercial Pisos de Coamo". Quadrangle Coamo, PR U.S.G.S. Original Scale 1:20,000.*

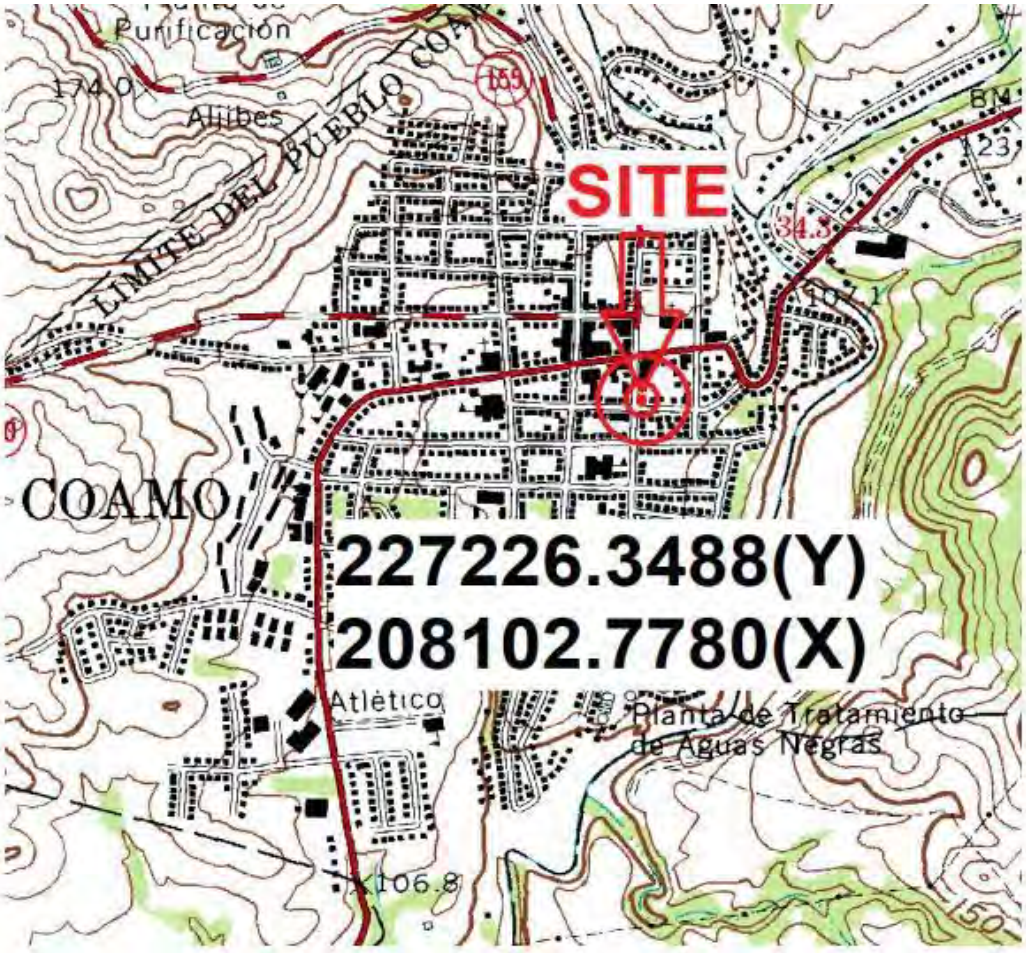


*Figure 2: Google 2020 aerial photography, showing the location of "Proyecto Residencial Comercial Pisos de Coamo".*

*Figure 3: "As Built" plan of the project site showing details.*

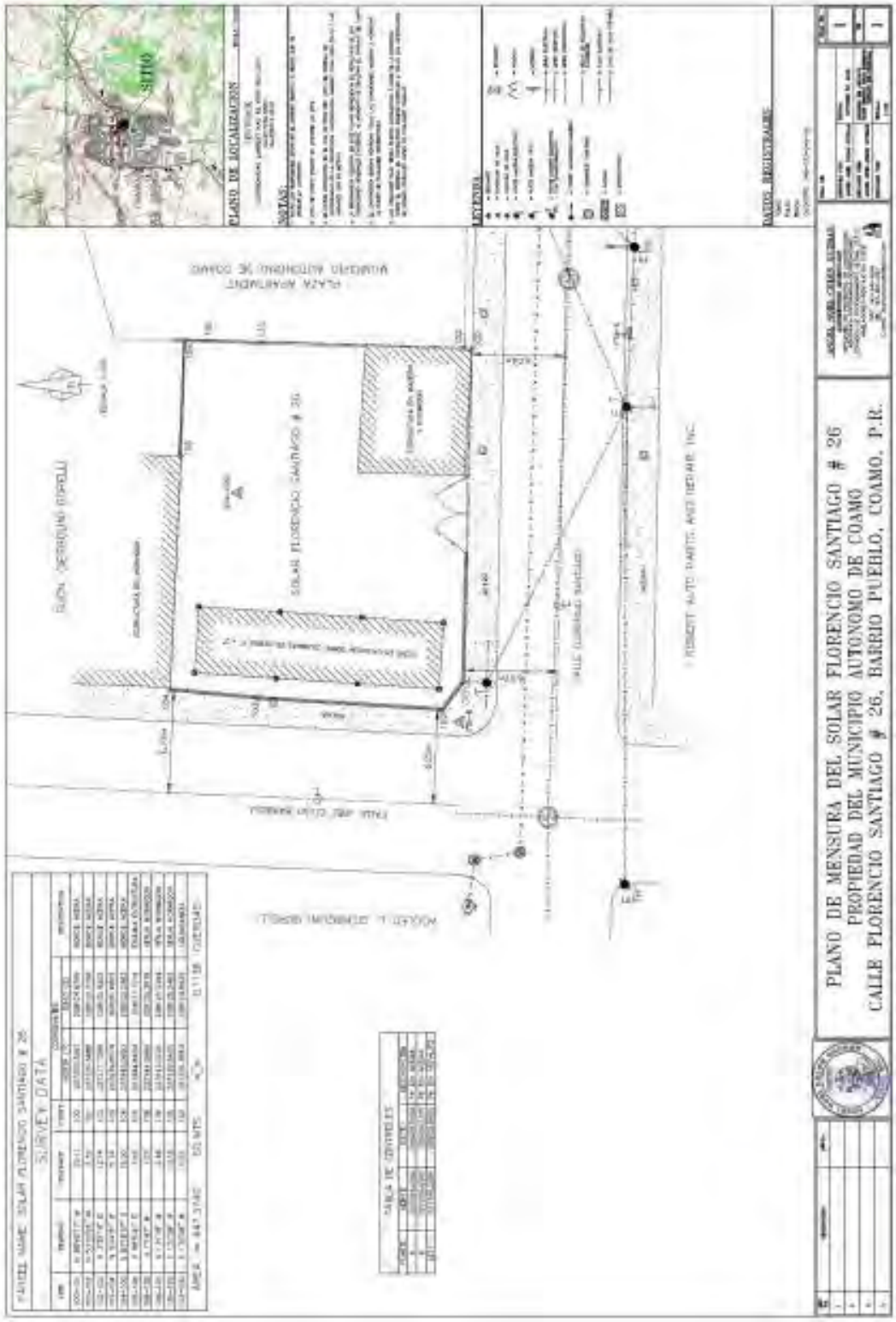


*Figure 4: Drawing of the proposed development.*

## III. Historical synopsis of the project

The revised historical plans of Coamo show this urban plot unoccupied until 1905. By 1936, a residence can be seen in the aerial photo of the property. This house is in L shape and covers a large part of the plot area. According to the information collected, this single-story wood structure has a balcony facing west to Calle José Celso Barbosa. The parcel is near to the public square to the north and, therefore, the urban area of the municipality of Coamo. Another small structure facing south to Calle Florencio Santiago was built on the site, in the back of the parcel there was a large tree. This "criollo style" wood house was demolished in the mid-1940s. In its place another structure was built, which, was also demolished in the mid-1990s.

Property Registry: According to the notarized document of Sale of the municipality, the property under study is not in the Land Registry, however, the document supplies the property data. Rustica: Plot located on Calle Dr. Barbosa corner Ermita, today corner Florencio Santiago of this town, located in the farm number 1049 owned by the Municipality of Coamo, Puerto Rico, with a surface area of 445.54 square meters with borders to the West; in 18.85 meters, which is its front of the before mentioned street; to the South: at 23.05 meters in limits with plot of Ermita Street, today Florencio Santiago; by the East: in 19.23 meters in borders with Borelli succession that is the bottom of the plot and in the North: in 23.03 meters with plot of the house of Succession Borelli Patrón.

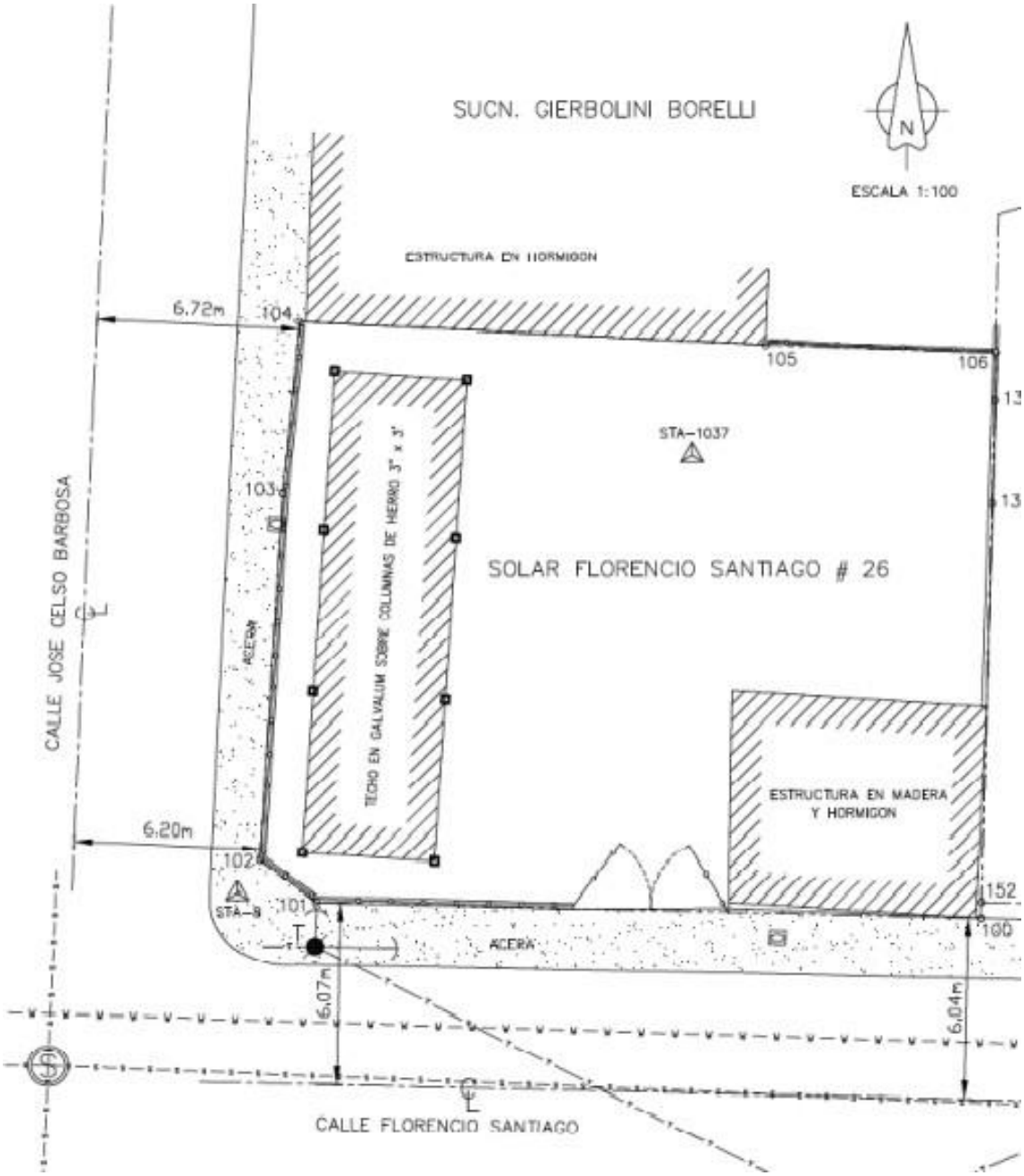
According to the information collected by the neighbors and passers-by of the place, a residential structure was located on this lot. It belonged to the family composed by Don Jesús Gervasio Bengoa and Carlota Rivera Rodríguez, a childless marriage. When the owners died, the house was bought by Dr. Guierbolini, who demolished the old "criollo" structure in the mid-

1940s and built a new house for the purpose of renting. This second structure was also demolished in the mid-1990s. After that, the parcel was used as a car dealer and a sales office, a galvanized iron and aluminum roof was built for it. The car dealer finished its functions in mid-2012. After that, the parcel was used as an office and as a “kiosko” for selling fruits and vegetables. Finally, in 2016, the Autonomous Municipality of Coamo acquired the property.

The parcel surface inspection was conducted on February 27, 2020. To achieve a greater understanding of the state of the situation of the area, the inspection was attended by one (1) field archaeologist and one (1) archaeology technician. The observations obtained were compiled in the description below. The property is located at the intersection of Florencio Santiago and José Celso Barbosa streets in the urban area of Coamo. The project parcel is completely flat, part asphalted, with two structures inside. A small green area is in the northeast end of the property. Of the two structures on the property, one is a roof made of iron and aluminum that was used for the "car dealer” for the exhibition of vehicles. This metal structure has an estimated height of ten (10) feet. The front of the parcel is to the José Celso Barbosa Street. The other structure was constructed in cement as a shop, and used as a “kiosko”, for selling fruits and vegetables. This cement structure has two doors facing to Florencio Santiago Street.

*Figure 5: Aerial Photo of the Urban Center of Coamo in 1936. The criollo house is observed in the parcel under study.*

*Figure 6: Section of the "Measurement Plan" with the location of the two existing structures.*



## IV. Research hypothesis

To establish a theoretical framework that will allow to apply a specific excavation methodology, a series of research questions relevant to the ongoing research will be stablished. The objectives are aimed at presenting actions that will allow to answer the research questions. Based on the historical collected evidence an old "criollo style" house was demolished in the mid-1940s. In its place another structure was built, which, was also demolished in the mid-1990s. The investigation main purpose is focused in corroborating the presence of some remains of the old "criollo style" house demolished in the 1940's.

The Phase II research questions are: Is this urban parcel part of the traditional urban center of Coamo? Does this plot still contain remains or elements associated with the Bengoa-Rivera family house? Does this plot contain remains or elements associated to Dr. Guierbolini house built in the 1940's? Does this plot still contain material remains associated to previous 1900 events occurred in this parcel? Is it possible to associate archaeological materials recovered in this parcel with known events occurred at this site?

## V. Phase II General objectives

The Phase II archaeological research is conducted for the purpose of assessing the eligibility of the investigated site to be considered for listing on the National Register of Historic Places (NRHP). The overall objectives of this Phase II project will be established in accordance with Section 106 of the National Historic Preservation Act of 1966.[1] The Phase II Investigation will meet the Secretary of the Interior's standards for archaeological documentation. The procedures of investigation and archaeological documentation in relation to this Phase II and the works will be carried out following the norms and guidelines contained in:

- Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation (1983).

- Recommended Approach for Consultation on Recovery of Significant Information from Archeological Sites (Advisory Council for Historic Preservation, 1999.

- State Historic Preservation Office of the Governor, Guides for Preparing Archaeological Reports, Stage I, II and III (1993).

The Phase II General objectives will be established in accordance with the National Historical Preservation Act of 1966 and will meet the standards of the Secretary of the Interior for the Archaeological Documentation. The research and archaeological documentation

[1] https://ncshpo.org/resources/section-106/

procedures concerning this Phase II Work Plan will be conducted following the standards and guidelines contained in:

- Secretary of Interior's Standards and Guidelines for Archaeology and Historic preservation (1983).
- Recommended Approach for Consultation on Recovery of Significant Information from Archeological Sites (Advisory Council from Historic Preservation, 1999).
- State Historic Preservation Office of the Governor, Guides for Preparing Archaeological Reports, Stage I, II and III (1993).

The Phase II research for the project will follow the guidelines for the evaluation and registration of archaeological properties, as indicated by the U.S. Department of the Interior. The recommendations of the "Advisory Council of Historic Conservation" are observed as stated in their documentation, specifically in "Recommended Approach for consultation on Recovery of Significant Information from Archeological sites" (National Register Bulletin Nos. 36 and 15).

## VI. Excavation units proposed localization and justification

Five one meter by one meter excavation units are proposed for the Phase II investigation. The excavation units will be established in a square distribution and one unit in the center of the project parcel. Two units will be positioned in association with positive boreholes number C-2 and D-1. Following this distribution in this way, the sector bordering the old criollo house once located in this parcel will be more intensely investigated.

## VII. Phase II Particular Objectives

1. Define the vertical extension of the archaeological remnant.
2. Define the horizontal extension of the archaeological remnant.
3. Define the stratigraphic characteristics of the archaeological remnant.
4. Identify the varieties and frequencies of the ceramic components in the site,
5. Establish the results of the analysis of materials and significant components of the site with other similar documented sites of the same historical period and context.
6. Identify the most significant historical period of this urban parcel.
7. Perform a record with descriptions, drawing, photos, of all the features discovered.
8. Set parameters to define the conservation status of the elements.
9. Establish the integrity and scientific potential of the remnants discovered.
10. Issuing appropriate recommendations for future resource management.
11. Establish the necessity of conducting more archaeological procedures or studies.

## VIII. Field work methodology

1. Document the existing conditions in the parcel prior to the beginning of Phase II
2. General cleaning of the plot and location of the five excavation units.
3. Removal of two sections of one meter by one meter of the cement pavement in the west section of the parcel.
4. Units will be identified as Unit 1, Unit 2, Unit 3, Unit 4 and Unit 5.
5. A main ***Datum Point*** will be set up to be located at the south-west of one the archaeological units.
6. The five archaeological units will be excavated, using artificial levels of 10 centimeters deep to guide the excavation.
7. The excavated material will be screened using a ¼-inch meshes.
8. All archaeological elements discovered during the excavation process will be properly documented with drawings, descriptions, and photographs.
9. The units will be excavated until the sterile layer is reached.
10. If any human remain is identified, the excavation process will end at this same level. Only the cleaning of the remnant, drawings, photographs, and video documentation will be completed.
11. PR-SHPO will be informed of the human remain findings in a 24-hour period.
12. Archaeological materials will be bagged before leaving the screen, properly identified by unit and level of excavation.
13. All the archaeological works will be documented with descriptions, photographs, drawings, and videos recordings.
14. All the archaeological material resulting from the excavation will be transported to a safe area near the excavations, previously identified by Lapislázuli, Inc.
15. At the beginning and at the end of the archaeological excavations, the officials of the State Office of Historical Conservation will be informed and invited to visit the "site" to observe the field investigations.

## IX. Laboratory activities

The archaeological materials will be worked following the federal guidelines of the State Office of Historical Conservation, for this level of research. In addition, research work will follow international standards and guidelines of work for the management and treatment developed by the Getty Foundation in coordination with ICOMOS, "International Core Data Standard for Archaeological Sites and Monuments".[2]

All the archaeological materials will be kept in the facilities of the Lapislázuli, Inc. in Corrientes Street #34, Riachuelo, Trujillo Alto, P.R. Forecasts will be taken to identify the greatest amount of material during the screening process and a pre-selection or separation of some materials will be carried out in the field. In addition, the following tasks will be carried out:

- Review of the field record to verify its coincidence with the material being transported to the laboratory area.
- Laboratory Registration
- Initial stabilization
- Washing
- Drying
- Separation
- Specific analysis
- Photographs
- Drawings
- Tabulating results
- Preparation of the data forms taken in the field and Laboratory
- Labeling of diagnostic artifacts by your catalog number
- Inventory of archaeological materials
- Suitable storage for final healing of the artifacts collection

[2] International Core Data Standard for Archaeological Sites and Monuments, ICOMOS, www.icomos.org

## X. End of the Field Work Report

An “End of the Field Works Report” will be prepared at the end of the field activities. This report will contain the field work summary and results.

## XI. Phase II Draft and Final Report

Once the comments of the Draft Phase II Report are received, the Final Report of Phase II will be worked on. The Phase II Final Report will include a detailed description of the methodology used in the field and laboratory, the analysis with the results of the field and laboratory research, drawings, and plan profiles, as well as the photographic documentation of all the procedures and findings of the research. It will also include the comprehensive interpretation of the elements that define the archaeological site evaluated, and the recommendations on its eligibility of the site for the National Register of Historic Places in Washington D.C.

## XII. Technical team of researchers

Archaeologist Norma Medina Carrillo - Principal investigator

Archaeologist Norma Medina Carrillo - Field director

Anthony Smith- Field Director Assistant

Archaeologist Rosa Martínez Montero- Laboratory director

## XIII. Work schedule and estimated time to perform Phase II

| ACTIVITY | TIME |
|---|---|
| Field work | 2 to 4 weeks |
| Laboratory work | 2 to 4 weeks |
| Specialists Analysis | 4 weeks |
| Draft Report Phase II | 6 weeks |
| SHPO Comments to the Draft Report - | 4 weeks |
| Final Phase II Report | 4 weeks |
| **Total** | **6 months** |

*Figure 7: Site Plan with the location of the Phase IB boreholes excavations.*

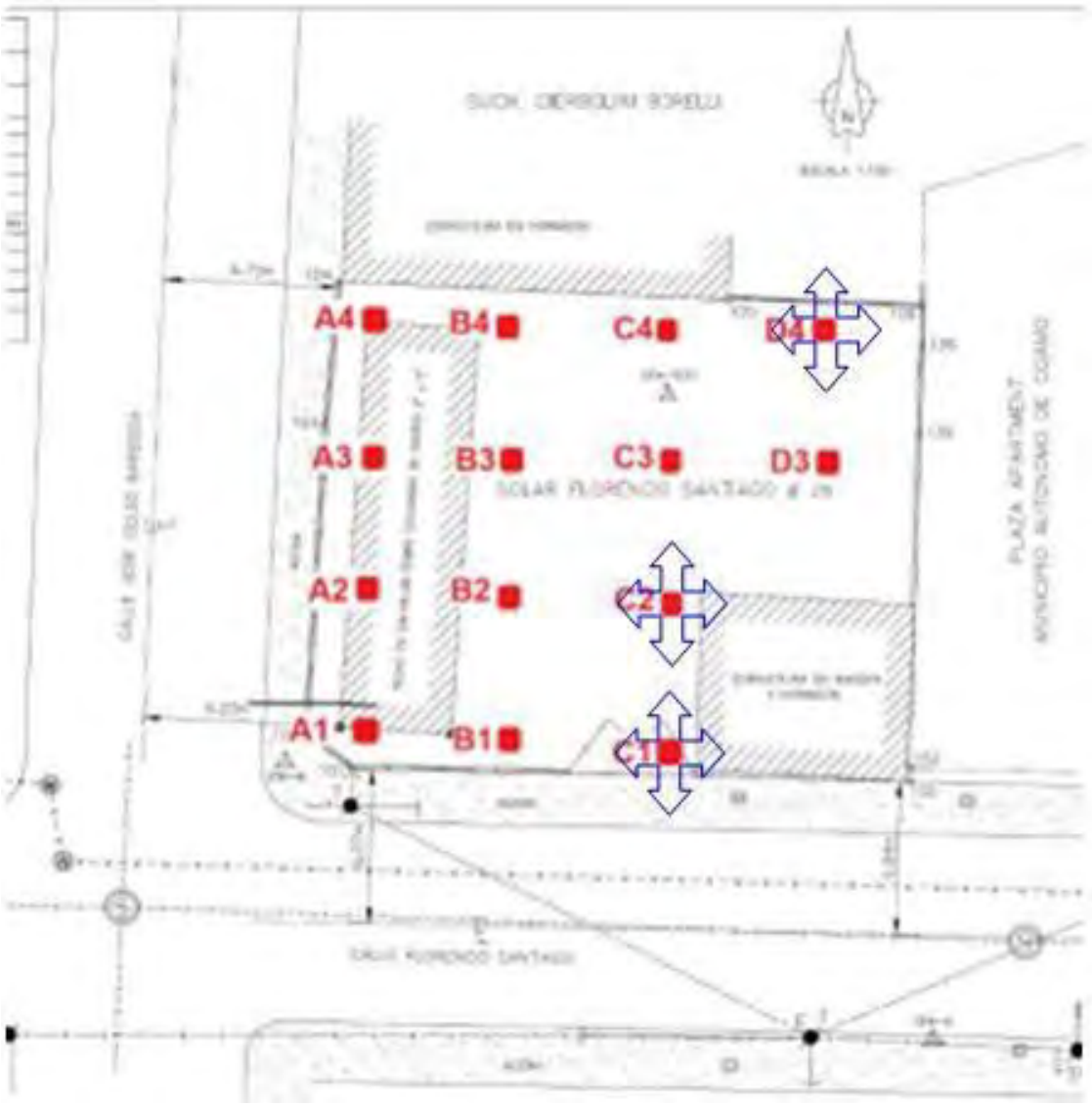
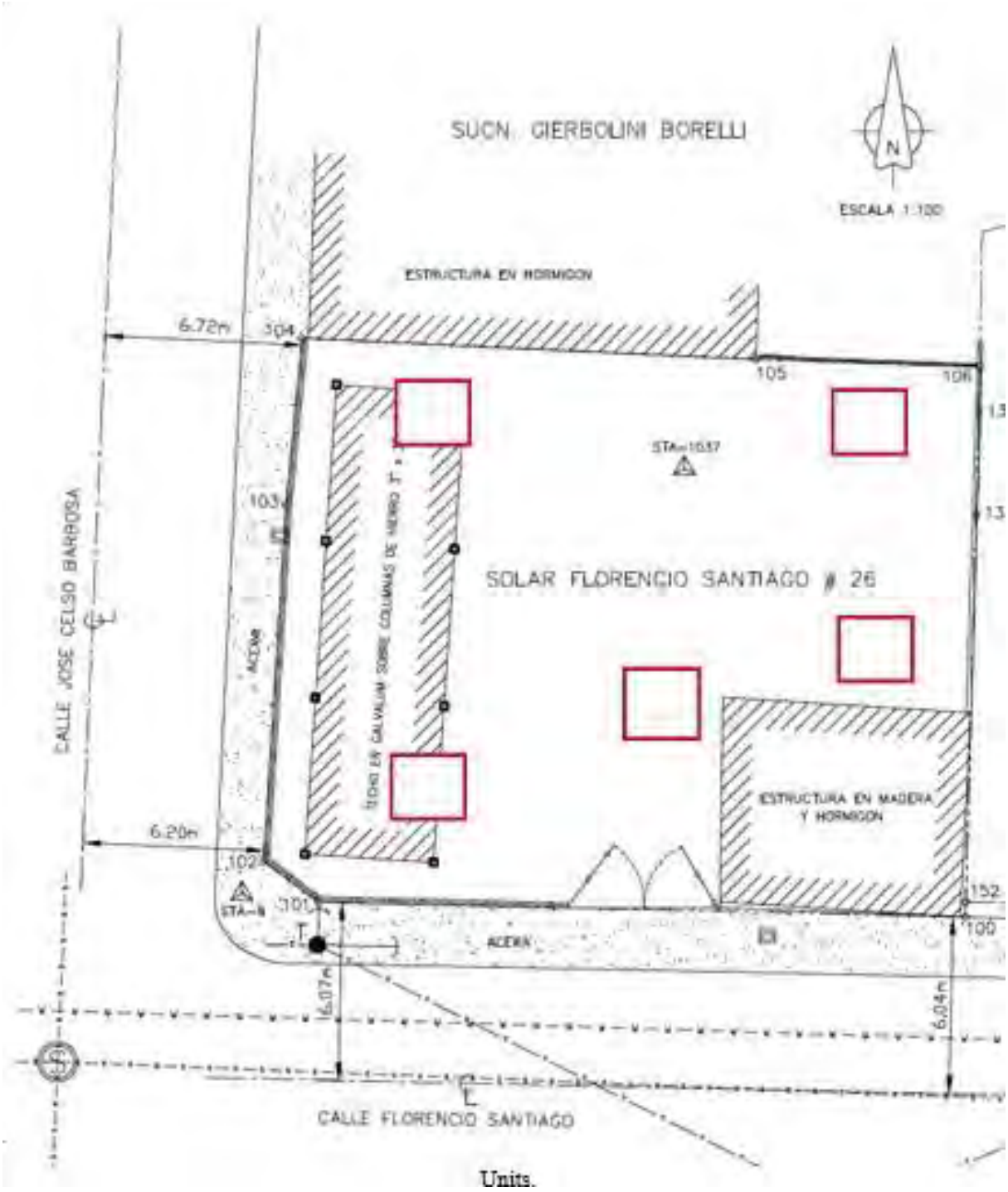


*Figure 8: Parcel Site Plan with the approximate location of the five Units proposed for Phase II.*




Units.

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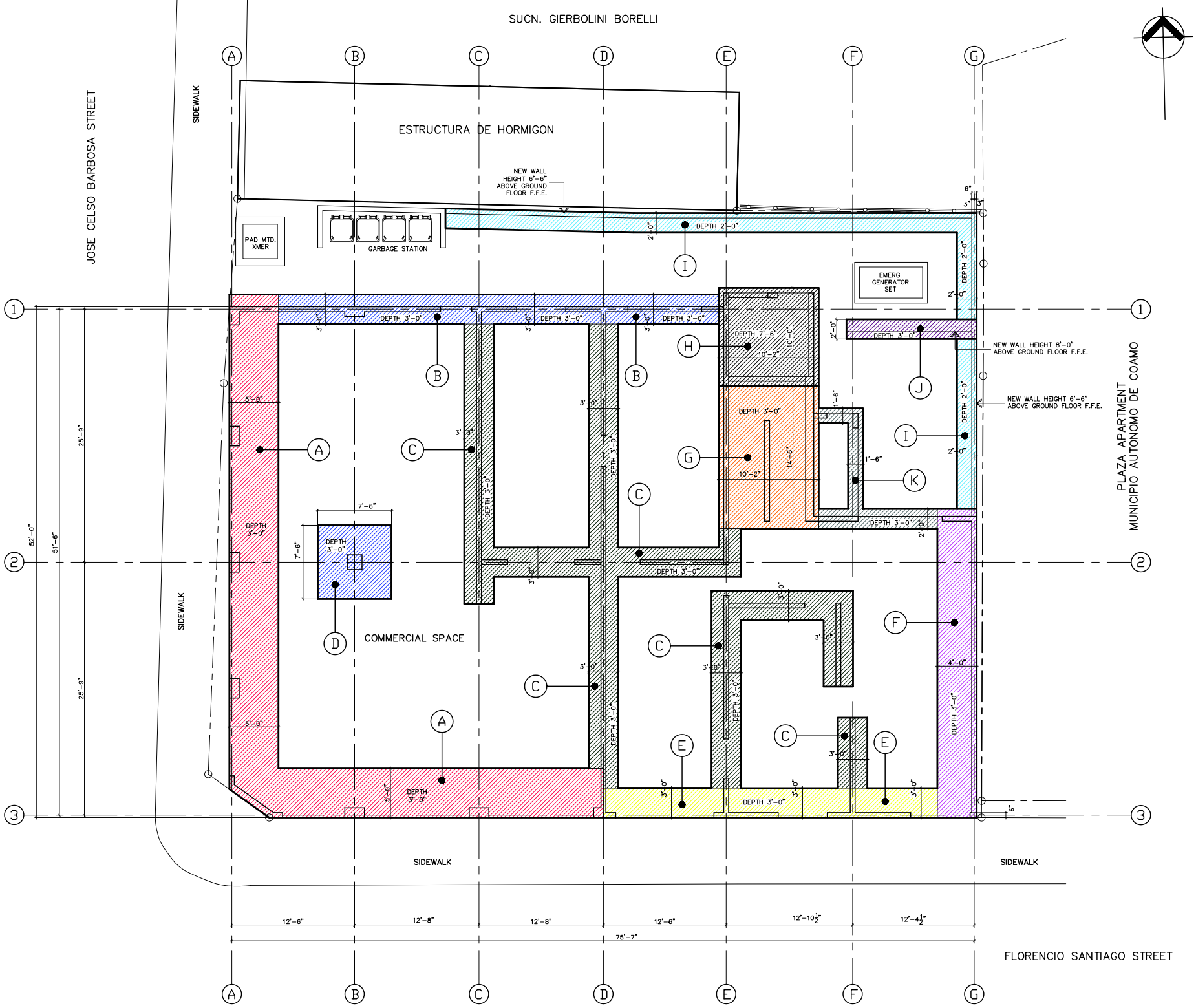
United States Department of Agriculture, Soil Conservation Survey Soil Survey of Ponce Southern Area of Puerto Rico, Washington DC




GROUND FLOOR PLAN SHOWING FOOTINGS EXCAVATIONS

# Pisos de Coamo, Edificio de Uso Mixto (Comercio y Vivienda), Calle Florencio Santiago # 26, Coamo, Puerto Rico - Cálculo de Excavaciones de Cimientos

**Cimientos A**

**426 p2 = 39.58 m2**
**426 p2 X 3'(profundidad) = 1,278 p3 = 36.19 m3**

**Cimientos B**

**135 p2 = 12.54 m2**
**135 p2 X 3'(profundidad) = 405 p3 = 11.47 m3**

**Cimientos C**

**432 p2 = 40.13 m2**
**432 p2 X 3'(profundidad) = 1,296 p3 = 36.70 m3**

**Cimientos D**

**56.25 p2 = 5.23 m2**
**56.25 p2 X 3'(profundidad) = 169 p3 = 4.78 m3**

**Cimientos E**

**102 p2 = 9.48 m2**
**102 p2 X 3'(profundidad) = 306 p3 = 8.66 m3**

**Cimientos F**

**126 p2 = 11.70 m2**
**126 p2 X 3'(profundidad) = 378 p3 = 10.7 m3**

**Cimientos G**

**147 p2 = 13.66 m2**
**147 p2 X 3'(profundidad) = 441 p3 = 12.49 m3**

**Cimientos H**

**102 p2 = 9.48 m2**
**102 p2 X 7'-6"(profundidad) = 900 p3 = 25.49 m3**

**Cimientos I**

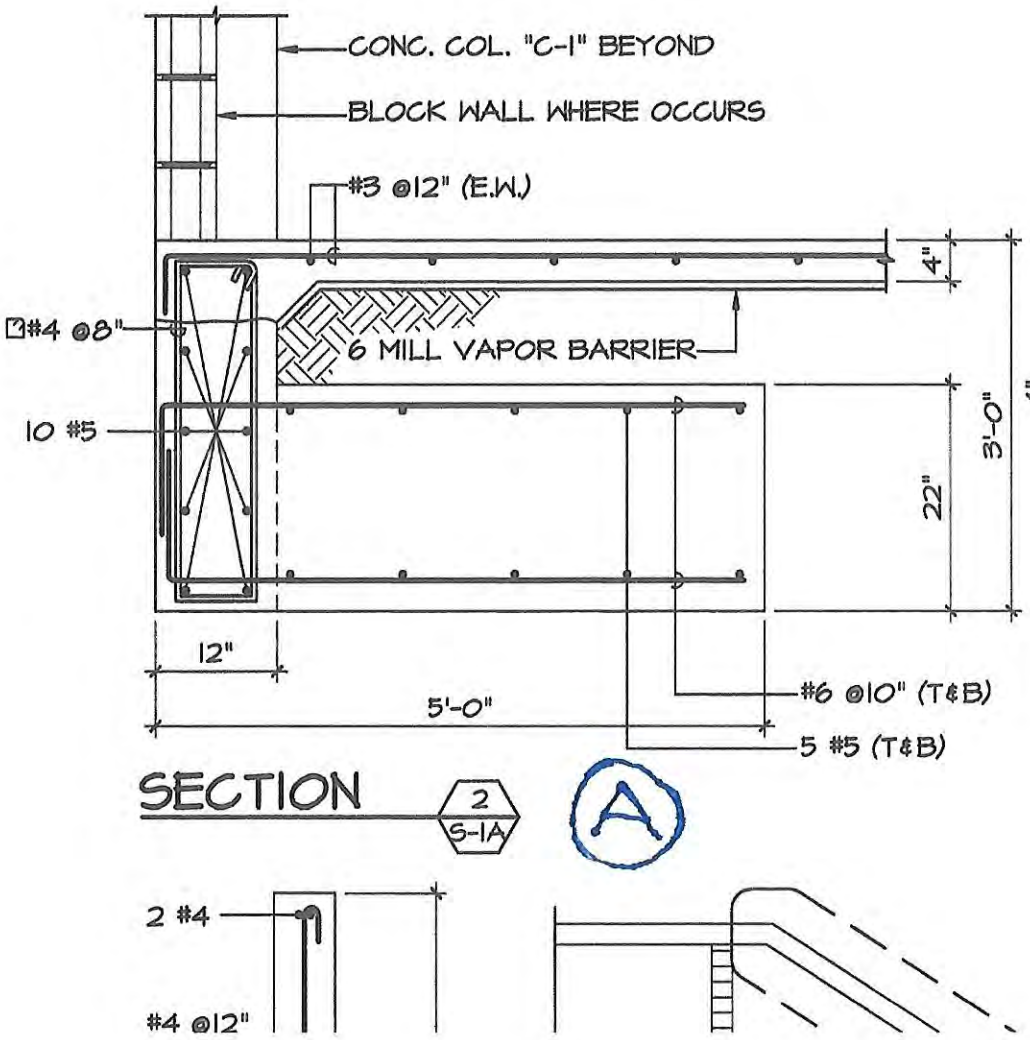
**161 p2 = 14.96 m2**
**161 p2 X 2'(profundidad) = 322 p3 = 9.12 m3**

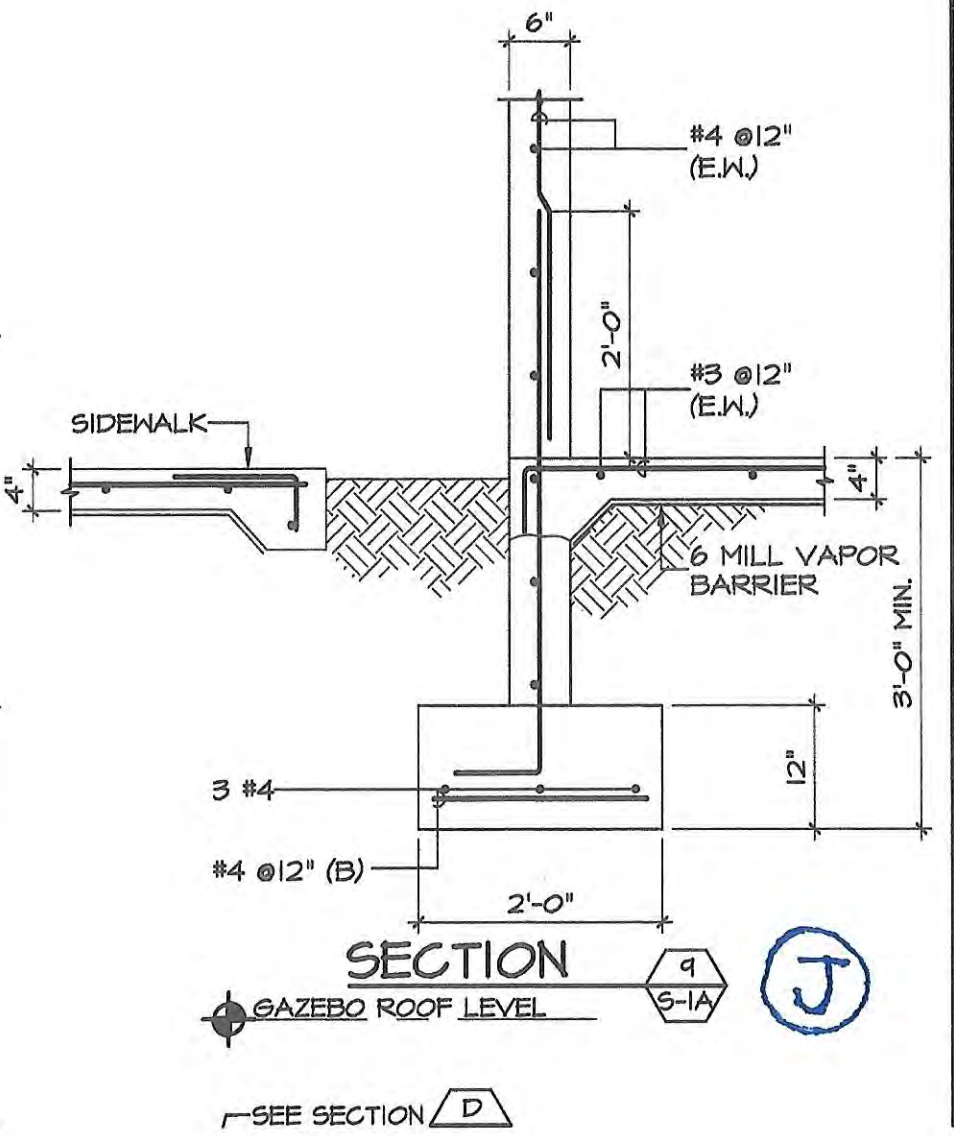
**Cimientos J**

**27 p2 = 2.5 m2**
**27 p2 X 3'(profundidad) = 81 p3 = 2.29 m3**

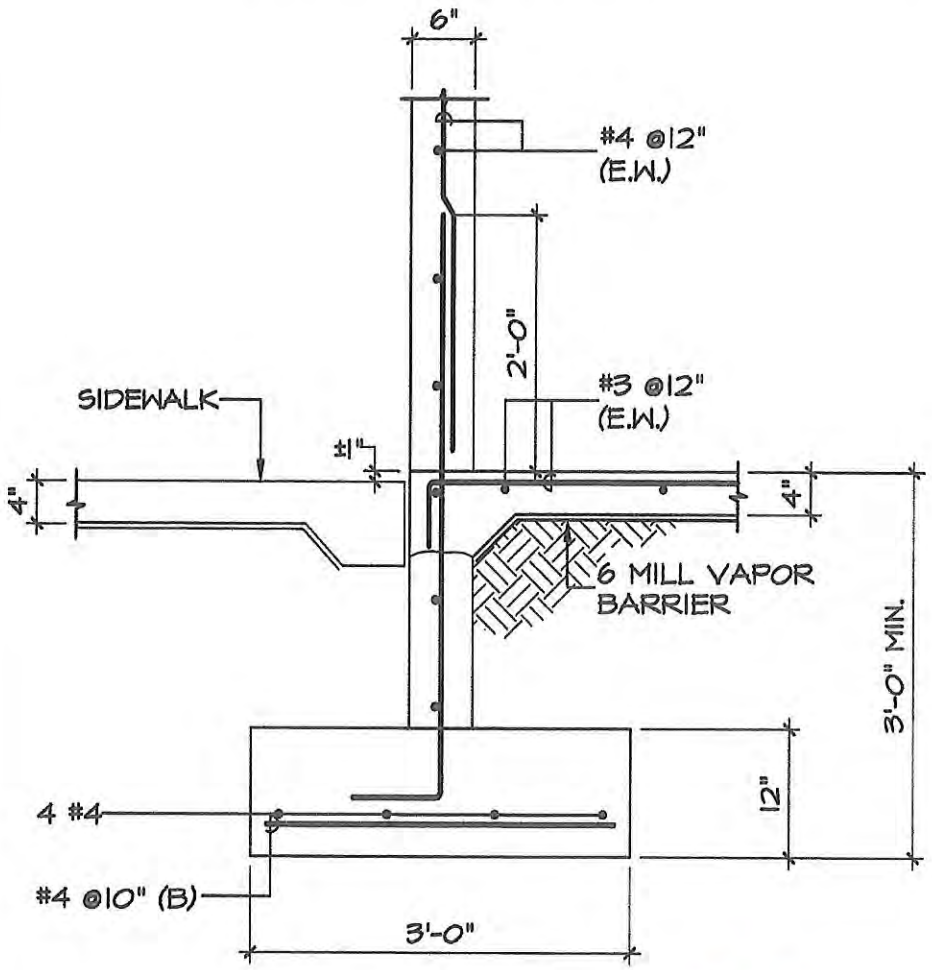
**Cimientos K**

**44 p2 = 4.1 m2**
**44 p2 X 3'(profundidad) = 132 p3 = 3.74 m3**


CONC. COL. "C-1" BEYOND
BLOCK WALL WHERE OCCURS
#3 @12" (E.W.)
4"
#4 @8"
6 MIL VAPOR BARRIER
10 #5
22"
3'-0"
12"
5'-0"
#6 @10" (T&B)
5 #5 (T&B)
SECTION
2
S-1A
A
2 #4
#4 @12"

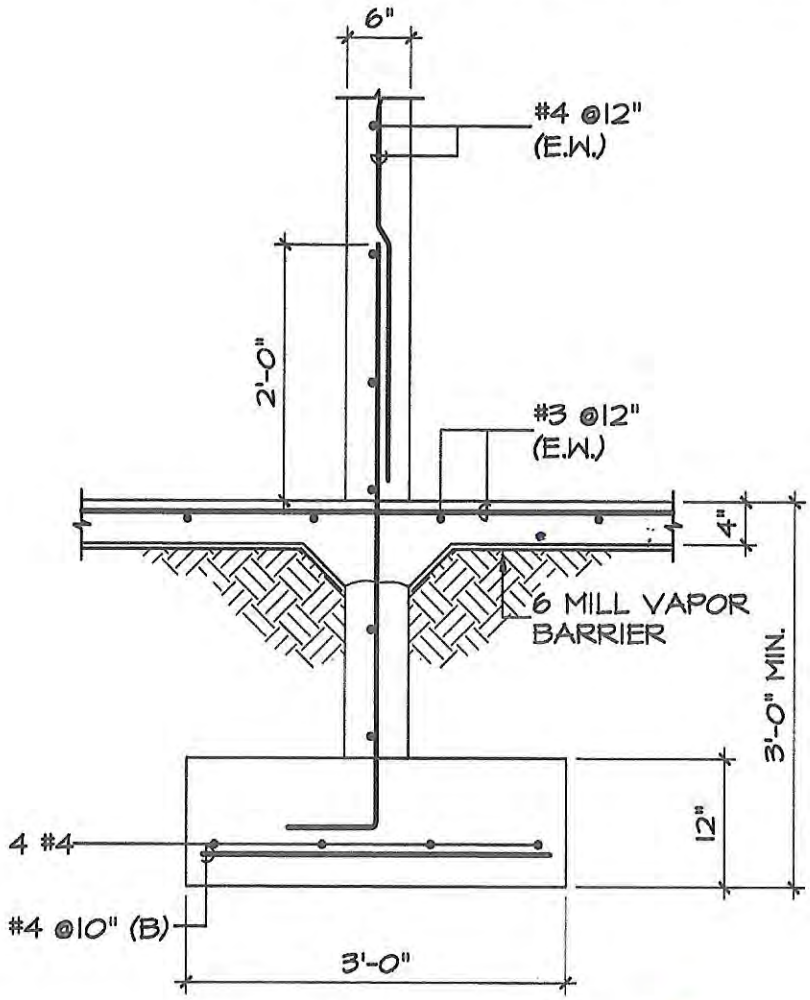

6"
#4 @12"
(E.W.)
2'-0"
#3 @12"
(E.W.)
SIDEWALK
4"
4"
6 MIL VAPOR
BARRIER
3'-0" MIN.
12"
3 #4
#4 @12" (B)
2'-0"
SECTION
9
S-1A
J
GAZEBO ROOF LEVEL
SEE SECTION D

# CONCRETE COLUMNS DETAILS



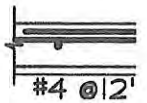

SECTION 3 S-1A (B)

# FOOTING DETAIL MK'D F-1



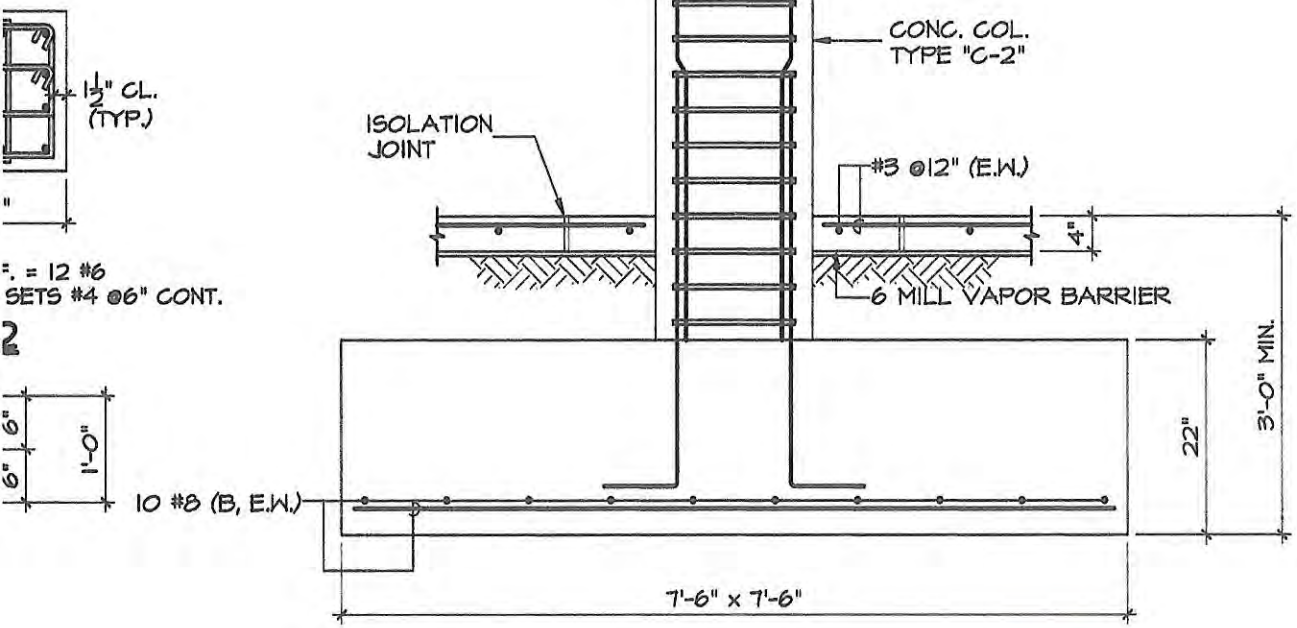

SECTION 4 S-1A (C)

1" KEY-



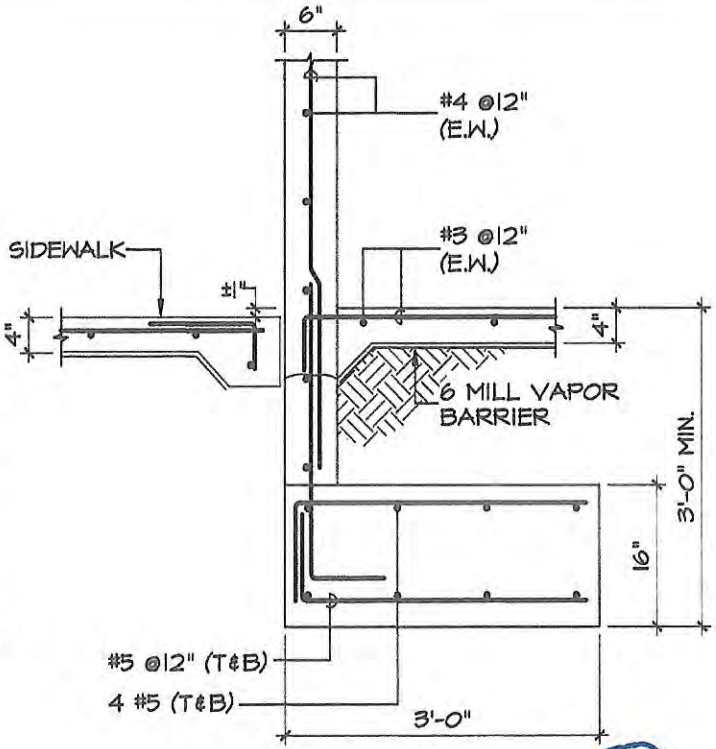

2 #4

#4 @
(E.W



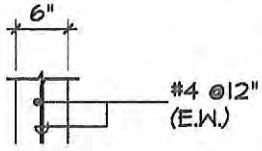

TYPICAL SQUARE
FOOTING DETAIL MK'D "F-1"

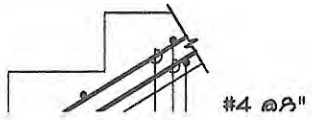
D

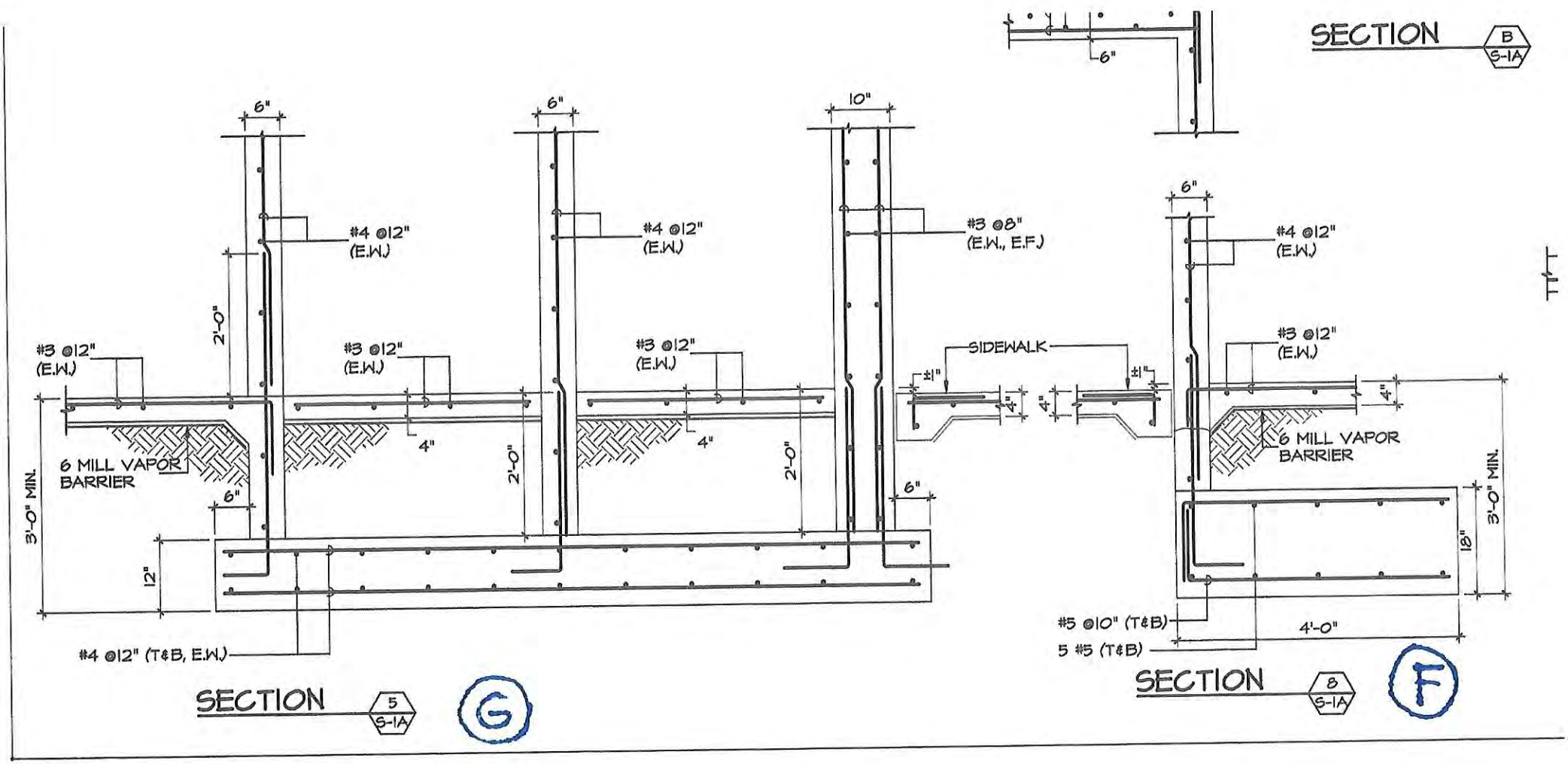


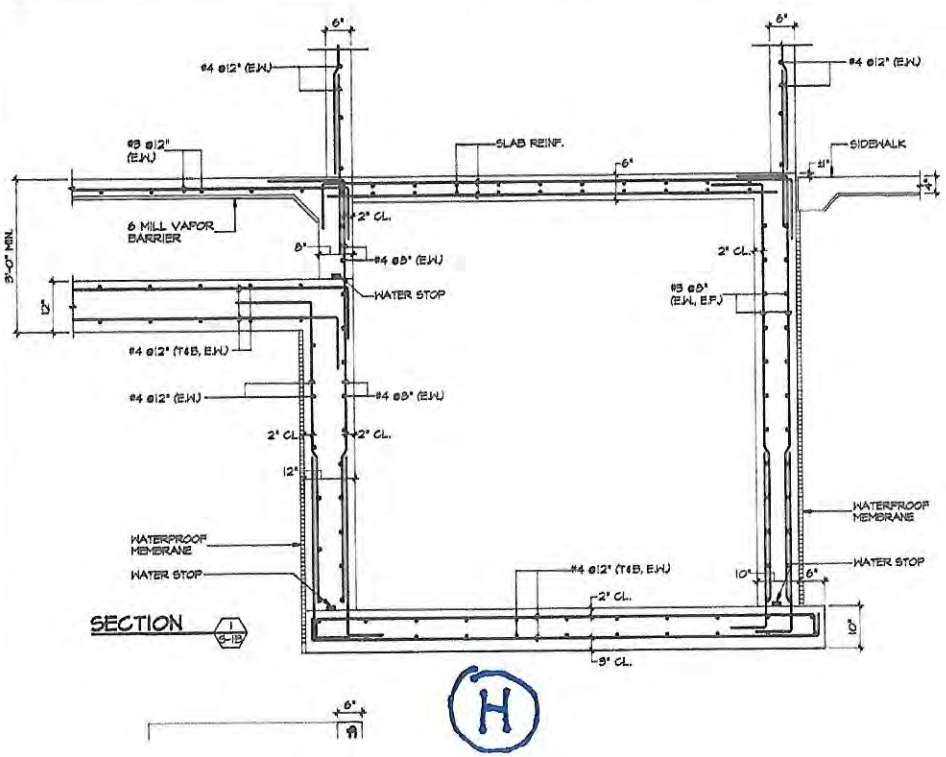

SECTION 1 S-1A

E

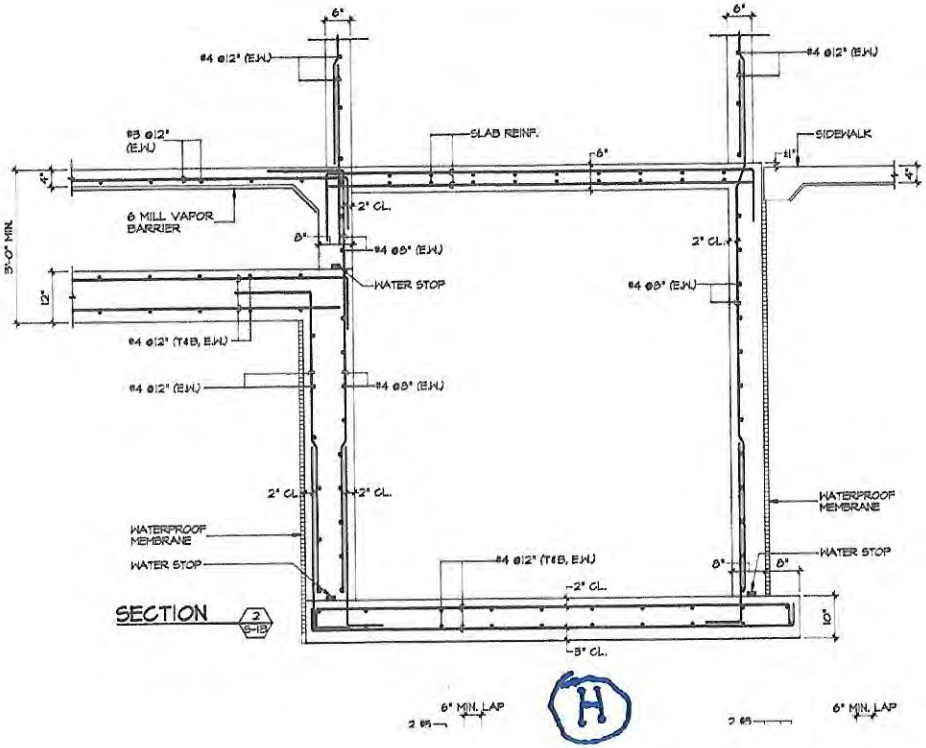




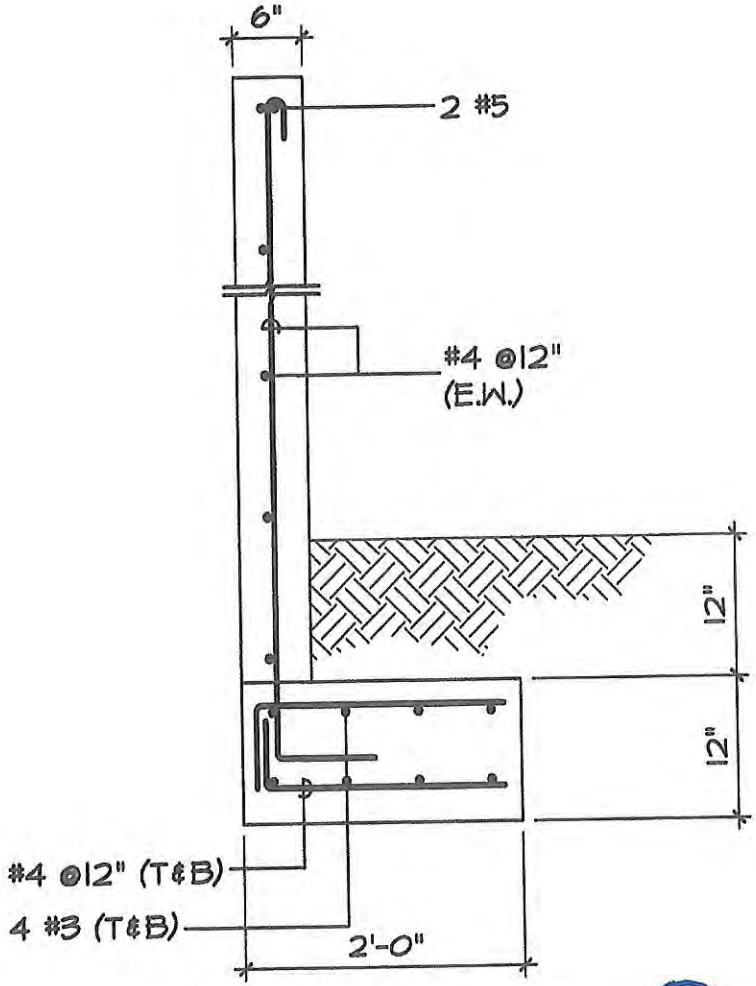

6"
#4 @12" (E.W.)
2'-0"
#3 @12" (E.W.)
6 MIL VAPOR BARRIER
3'-0" MIN.
12"
#4 @12" (T&B, E.W.)
SECTION 5 S-1A
G
6"
#4 @12" (E.W.)
#3 @12" (E.W.)
4"
2'-0"
10"
#3 @8" (E.W., E.F.)
6"
SIDEWALK
±1"
4"
SECTION B S-1A
#5 @10" (T&B)
5 #5 (T&B)
4'-0"
18"
SECTION 8 S-1A
F


#4 @12" (E.W.)
#3 @12" (E.W.)
SLAB REINF.
SIDEWALK
6 MIL VAPOR BARRIER
3'-0" MIN.
#3 @8" (E.W., E.F.)
WATER STOP
#4 @12" (T&B, E.W.)
WATERPROOF MEMBRANE
2" CL.
3" CL.
SECTION
1
S-18

H


#4 @12" (E.W.)
#3 @12" (E.W.)
SLAB REINF.
SIDEWALK
6 MIL VAPOR BARRIER
3'-0" MIN.
#4 @8" (E.W.)
WATER STOP
#4 @12" (T&B, E.W.)
WATERPROOF MEMBRANE
2" CL.
3" CL.
SECTION
2
S-18
6" MIN. LAP

H




SECTION 1/S-1

I

B.
1.
a

C.
1.
2.
3.
4.
5.

# Attachment 12

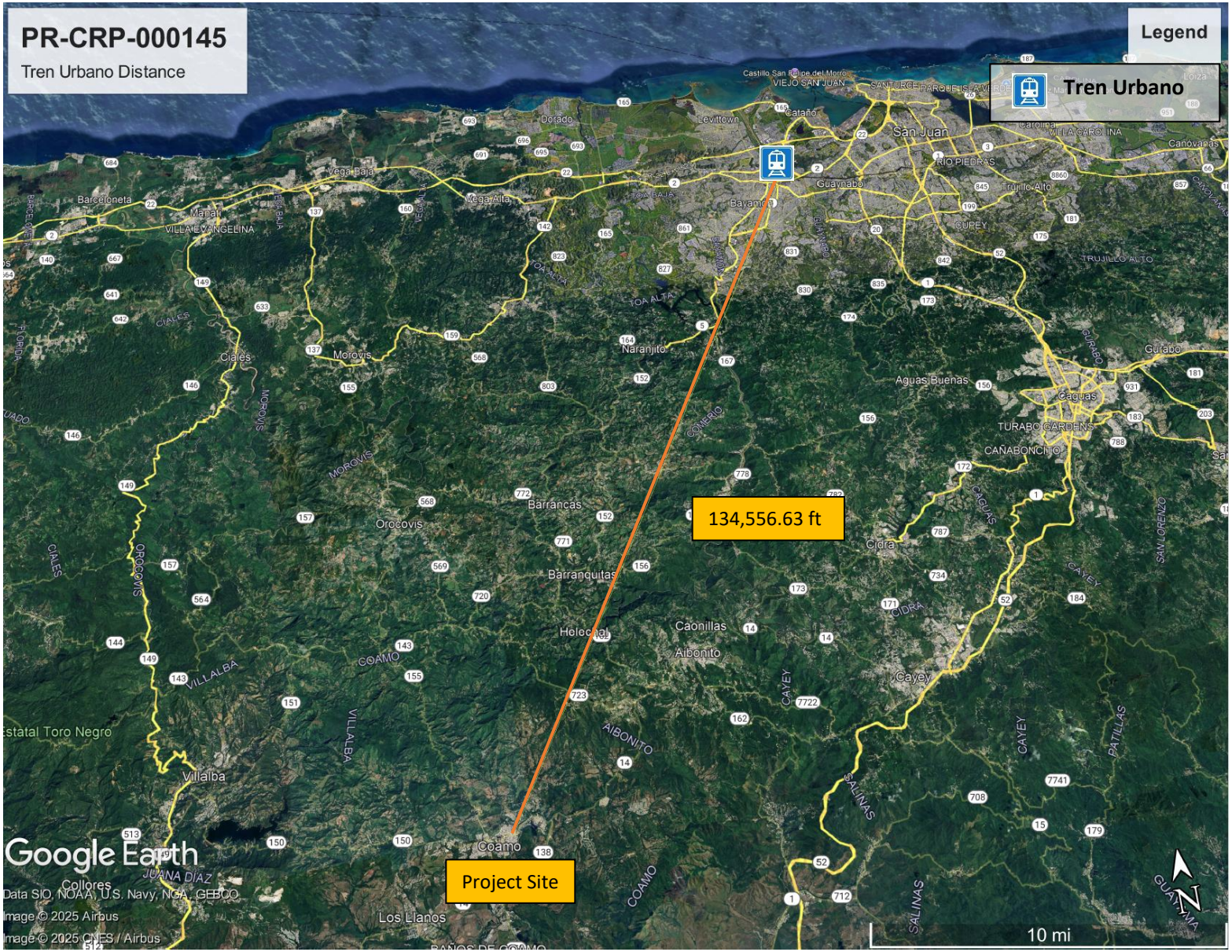
# Noise Abatement and Control

## Noise Map: Railroads

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079504, -66.356714**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: Google Earth Pro with https://gis.pr.gov/descargaGeodatos/Infraestructuras/Pages/Transportaci%C3%B3n.aspx overlay.

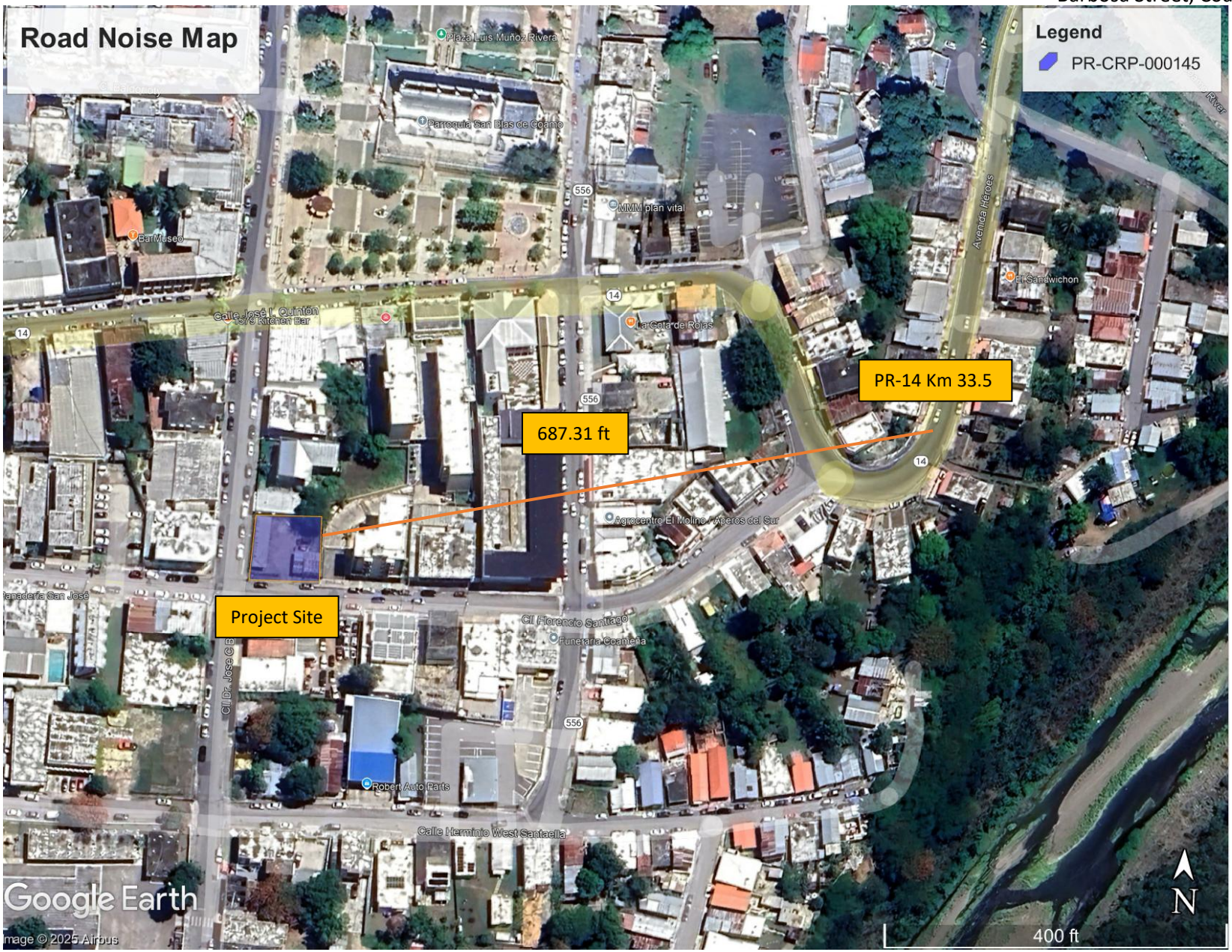
Prepared by ICF

## Noise Map: Roads

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079504, -66.356714**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: Google Earth Pro

Prepared by ICF

**HIGHWAY PERFORMANCE MONITORING SYSTEM**
OFFICE OF HIGHWAY SYSTEMS PRHTA
2023 CLASSIFICATION LOG

| ROUTE NUMBER | COUNTY CODE | KM | FROM DESCRIPTION | KM | TO DESCRIPTION | AADT AADT | AADT YEAR | ADT RAW | FUNCTIONAL CLASSIFICATION | MUNICIPALITY |
|---|---|---|---|---|---|---|---|---|---|---|
| PR 10 | 002 | 63.80 | (FLORIDA WEST URBAN | 66.60 | (PR 6109/ARECIBO EAST | 14,517 | 2022 | 14,517 | PRINCIPAL ARTERIAL | ARECIBO |
| PR 10 | 002 | 66.60 | (PR 6109 / ARECIBO EAST | 67.00 | (PR 652) | 18,300 | 2019 | 18,326 | PRINCIPAL ARTERIAL | ARECIBO |
| PR 10 | 002 | 67.00 | (PR 652) | 68.20 | (PR 22) | 19,500 | 2019 | 20,044 | PRINCIPAL ARTERIAL | ARECIBO |
| PR 10 | 002 | 68.20 | (PR 22) | 70.10 | (PR 2) | 16,500 | 2019 | 16,615 | PRINCIPAL ARTERIAL | ARECIBO |
| PR 12 | 005 | 0.00 | (MUELLE PL. PONCE) | 0.80 | (CALLE COMERCIO) | 3,000 | 2022 | 3,084 | COLLECTOR (INTERMODAL) | PONCE |
| PR 12 | 005 | 0.80 | (CALLE COMERCIO) | 1.40 | (AVE. CARIBE) | 6,100 | 2019 | 6,266 | PRINCIPAL ARTERIAL | PONCE |
| PR 12 | 005 | 1.40 | (AVE. CARIBE) | 2.40 | (PR 52) | 21,600 | 2021 | 22,057 | PRINCIPAL ARTERIAL | PONCE |
| PR 12 | 005 | 2.40 | (PR 52) | 3.60 | (PR 2) | 31,300 | 2021 | 30,958 | FREEWAY & EXPRESSWAY | PONCE |
| PR 12 | 005 | 3.60 | (PR 2) | 4.35 | (PR 163) | 21,600 | 2019 | 21,419 | FREEWAY & EXPRESSWAY | PONCE |
| PR 12 | 005 | 4.35 | (PR 163) | 4.95 | (PR 133) | 25,900 | 2019 | 25,673 | FREEWAY & EXPRESSWAY | PONCE |
| PR 12 | 005 | 4.95 | (PR 133) | 5.45 | (PR 1) | 36,000 | 2009 | 35,600 | FREEWAY & EXPRESSWAY | PONCE |
| PR 12 | 005 | 5.45 | (PR 1) | 5.95 | (CALLE OBISPADO) | 25,900 | 2022 | 25,854 | FREEWAY & EXPRESSWAY | PONCE |
| PR 12 | 005 | 5.95 | (CALLE OBISPADO) | 6.68 | (PR 14) | 19,500 | 2019 | 19,345 | FREEWAY & EXPRESSWAY | PONCE |
| PR 14 | 005 | 0.00 | (CALLE FERROCARRIL) | 0.22 | (CALLE GRAN VÍA) | 2,500 | 2011 | 2,500 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 0.22 | (CALLE GRAN VÍA) | 0.35 | (CALLE JOBOS) | 5,500 | 2002 | 5,500 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 0.35 | (CALLE JOBOS) | 0.85 | (CALLE REINA ISABEL) | 5,500 | 2006 | 5,500 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 0.85 | (CALLE REINA ISABEL) | 1.25 | (CALLE GUADALUPE INT. CALLE SALUD) | 9,500 | 2004 | 9,500 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 1.25 | (CALLE GUADALUPE INT. | 1.85 | (AVE. OBISPADO) | 9,100 | 2009 | 9,100 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 1.85 | (AVE. OBISPADO) | 2.20 | (AVE. BETANCES) | 7,000 | 2022 | 7,086 | MINOR ARTERIAL | PONCE |
| PR 14 | *005* | 2.20 | (AVE. BETANCES) | 2.55 | (CALLE ALCÁZAR) | 13,100 | 2001 | 13,400 | COLLECTOR | PONCE |
| PR 14 | 005 | 2.55 | (CALLE ALCÁZAR) | 2.60 | (PR 12) | 15,800 | | 15,700 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 2.60 | (PR 12) | 2.90 | (CALLE FAGOT) | 17,100 | 2019 | 17,431 | PRINCIPAL ARTERIAL | PONCE |
| PR 14 | 005 | 2.90 | (CALLE FAGOT) | 3.50 | (URB.LA RAMBLA) | 13,400 | 2019 | 13,679 | PRINCIPAL ARTERIAL | PONCE |
| PR 14 | 005 | 3.50 | (URB.LA RAMBLA) | 4.00 | (CENTRO MÉDICO) | 18,900 | 2019 | 19,282 | PRINCIPAL ARTERIAL | PONCE |
| PR 14 | 005 | 4.00 | (CENTRO MÉDICO) | 4.70 | (PR 10/PR 5139) | 26,100 | 2019 | 26,646 | PRINCIPAL ARTERIAL | PONCE |
| PR 14 | 005 | 4.70 | (PR 10/PR 5139) | 5.00 | (URB.TRES MONJITAS) | 21,900 | 2022 | 21,929 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 5.00 | (URB.TRES MONJITAS) | 5.55 | (URB.VALLE ALTO) | 25,700 | 2022 | 25,669 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 5.55 | (URB.VALLE ALTO) | 8.70 | (PR 506) | 31,200 | 2011 | 31,100 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 8.70 | (PR 506) | 9.80 | (MUNICIPAL BOUNDARY PONCE/JUANA DIAZ) | 20,700 | 2021 | 20,624 | MINOR ARTERIAL | PONCE |
| PR 14 | 005 | 9.80 | (MUNICIPAL BOUNDARY | 12.60 | (JUANA DIAZ WEST URBAN | 16,400 | 2021 | 16,391 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 12.60 | (JUANA DIAZ WEST URBAN | 13.00 | (ENT CEMENTERIO) | 12,900 | 2021 | 12,976 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 13.00 | (ENT CEMENTERIO) | 13.60 | (PR 149) | 11,300 | 2021 | 11,254 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 13.60 | (PR 149) | 13.85 | (PR 14P/CALLE COMERCIO | 8,700 | 2022 | 8,805 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 13.85 | (PR 14P/CALLE COMERCIO INT CALLE MATIENZO CINTRON) | 14.10 | (PR 592/CALLE MUÑOZ RIVERA) | 6,300 | 2015 | 6,300 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 14.10 | (PR 592/CALLE MUÑOZ | 14.24 | (PR 14-P/CALLE COMERCIO | 11,000 | | 11,000 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 14.24 | (PR 14-P/CALLE COMERCIO | 15.10 | (CALLE MARGARITA) | 10,051 | 2022 | 9,393 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 15.10 | (CALLE MARGARITA) | 15.42 | (PR 510) | 8,900 | 2007 | 8,900 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 15.42 | (PR 510) | 15.86 | (EUL JUANA DÍAZ) | 11,700 | 2021 | 11,714 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 15.86 | (EUL JUANA DÍAZ) | 18.50 | (PR 535) | 10,200 | 2021 | 10,231 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 18.50 | (PR 535) | 19.60 | (JUANA DÍAZ EAST URBAN | 8,200 | 2019 | 8,252 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 19.60 | (JUANA DÍAZ EAST URBAN | 22.70 | (PR 536) | 5,450 | 2022 | 5,450 | MINOR ARTERIAL | JUANA DIAZ |
| PR 14 | 005 | 22.70 | (PR 536) | 24.30 | (COAMO WEST URBAN | 4,300 | 2021 | 4,269 | MINOR ARTERIAL | JUANA DIAZ/COAMO |
| PR 14 | 005 | 24.30 | (COAMO WEST URBAN BOUNDARY) | 26.40 | (PR 545) | 4,100 | 2019 | 4,047 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 26.40 | (PR 545) | 30.80 | (PR 138) | 9,200 | 2021 | 9,137 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 30.80 | (PR 138) | 31.50 | (S/WUL COAMO/CENTRO | 10,800 | 2019 | 10,769 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 31.50 | (S/WUL COAMO/CENTRO INDUSTRIAL) | 32.00 | (CALLE A/URB. VISTA DEL SOL) | 13,000 | 2021 | 12,946 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 32.00 | (CALLE A/URB. VISTA DEL SOL) | 32.50 | (CALLE TEXAS) | 12,000 | 2021 | 11,988 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 32.50 | (CALLE TEXAS) | 32.65 | (PR 14P KM 0.8/CALLE JOSE I. QUINTON) | 14,300 | 2009 | 14,200 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 32.65 | (PR 14P KM 0.8/CALLE JOSE I. QUINTON) | 32.85 | (CALLE CARRION MADURO) | 5,700 | 2019 | 5,712 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 32.85 | (CALLE CARRION MADURO) | 33.05 | (CALLE FLORENCIO SANTIAGO) | 9,100 | 2011 | 9,100 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 33.05 | (CALLE FLORENCIO SANTIAGO) | 33.50 | (PR 14P KM 0.0/CALLE JOSE I. QUINTON) | 4,513 | 2022 | 4,653 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | 005 | 33.50 | (PR 14P KM 0.0/CALLE JOSE I. QUINTON) | 33.85 | (PR 702) | 10,200 | 2021 | 10,198 | SMALL URBAN MINOR ARTERIAL | COAMO |
| PR 14 | *005* | 33.85 | (PR 702) | 35.70 | (PR 238) | 3,800 | 2021 | 3,797 | SMALL URBAN MINOR ARTERIAL | COAMO |

# Day/Night Noise Level (DNL) Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**

# Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Additional Notes:

- Stop sign is not applicable
- Night fraction estimated at 15%
- Road gradient estimated at 2%

# DNL Calculator

| | |
|---|---|
| **Site ID** | PR-CRP-000145 |
| **Record Date** | 09/23/2025 |
| **User's Name** | Patrick Stokes |

| | |
|---|---|
| **Road # 1 Name:** | **PR-14 from Km 33.5 to Km 33.85** |

**Road #1**

| **Vehicle Type** | **Cars** ☑ | **Medium Trucks** ☑ | **Heavy Trucks** ☑ |
|---|---|---|---|
| Effective Distance | 687 | 687 | 687 |
| Distance to Stop Sign | | | |
| Average Speed | 25 | 25 | 20 |
| Average Daily Trips (ADT) | 9180 | 510 | 510 |
| Night Fraction of ADT | 15 | 15 | 15 |
| Road Gradient (%) | | | 2 |
| Vehicle DNL | 43 | 41 | 54 |
| Calculate Road #1 DNL | 55 | Reset | |

Add Road Source | Add Rail Source

| | |
|---|---|
| Airport Noise Level | |
| Loud Impulse Sounds? | ○**Yes** ○**No** |

| | |
|---|---|
| Combined DNL for all Road and Rail sources | **0** |
| Combined DNL including Airport | |
| Site DNL with Loud Impulse Sound | |

Calculate Reset

# Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
  - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See ***The Noise Guidebook (/resource/313/hud-noise-guidebook/)***
  - Construct noise barrier. See the **Barrier Performance Module (/programs/environmental-review/bpm-calculator/)**

# Tools and Guidance

**Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)**

**Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)**

# Airport Noise Worksheet

**Use this worksheet to identify information needed to evaluate a site's exposure to aircraft noise.**

Name and Location of Project: **PR-CRP-000145**
26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR
Name of Airport: Mercedita International Airport

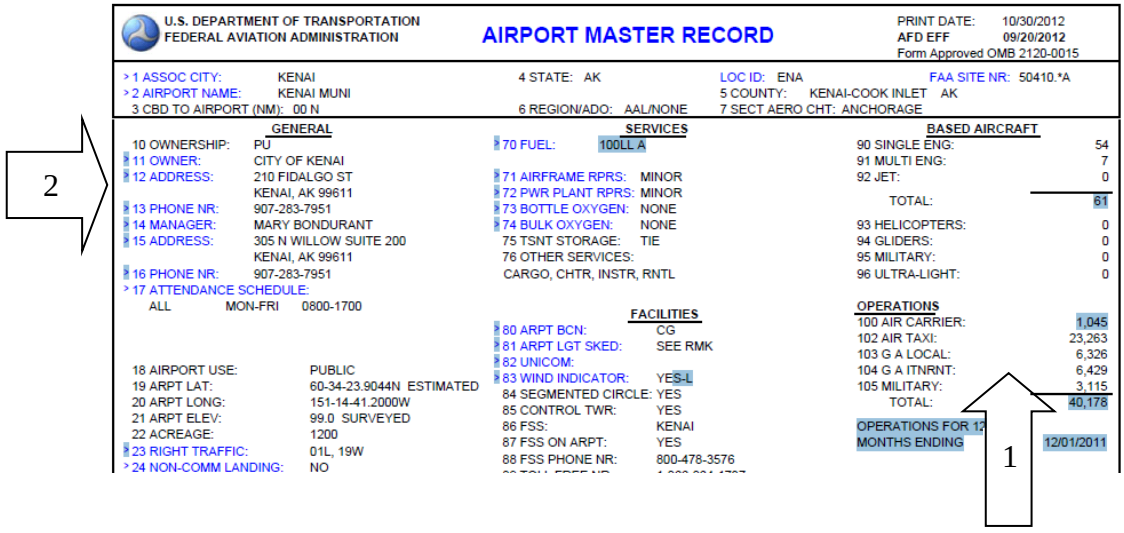
Date: **9/10/2025**
Person completing worksheet:
Patrick Stokes, Environmental Specialist

1. Determine if the proposed site/project is within 15 miles of a civil or military airport.

☐ No. Attach a map identifying the location of the proposed project site and the location of any airports. This worksheet is not required.

☒ Yes. Attach a map identifying the location of the proposed project site and the location of any airports. Continue

2. Determine the number of operations at the airport by:
   - Going to: http://www.gcr1.com/5010web/
   - Type in the name of the city press search
   - Find your airport.
   - Open the report under "Print 5010"
   - Complete section 3 below by using the information found in the report (see arrow #1 in the example below)



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

**AIRPORT MASTER RECORD**

PRINT DATE: 10/30/2012
AFD EFF 09/20/2012
Form Approved OMB 2120-0015

> 1 ASSOC CITY: KENAI
> 2 AIRPORT NAME: KENAI MUNI
3 CBD TO AIRPORT (NM): 00 N
4 STATE: AK
6 REGION/ADO: AAL/NONE
LOC ID: ENA
5 COUNTY: KENAI-COOK INLET AK
7 SECT AERO CHT: ANCHORAGE
FAA SITE NR: 50410.*A

**GENERAL**
10 OWNERSHIP: PU
> 11 OWNER: CITY OF KENAI
> 12 ADDRESS: 210 FIDALGO ST KENAI, AK 99611
> 13 PHONE NR: 907-283-7951
> 14 MANAGER: MARY BONDURANT
> 15 ADDRESS: 305 N WILLOW SUITE 200 KENAI, AK 99611
> 16 PHONE NR: 907-283-7951
> 17 ATTENDANCE SCHEDULE:
ALL MON-FRI 0800-1700

18 AIRPORT USE: PUBLIC
19 ARPT LAT: 60-34-23.9044N ESTIMATED
20 ARPT LONG: 151-14-41.2000W
21 ARPT ELEV: 99.0 SURVEYED
22 ACREAGE: 1200
> 23 RIGHT TRAFFIC: 01L, 19W
> 24 NON-COMM LANDING: NO

**SERVICES**
> 70 FUEL: 100LL A
> 71 AIRFRAME RPRS: MINOR
> 72 PWR PLANT RPRS: MINOR
> 73 BOTTLE OXYGEN: NONE
> 74 BULK OXYGEN: NONE
75 TSNT STORAGE: TIE
76 OTHER SERVICES: CARGO, CHTR, INSTR, RNTL

**FACILITIES**
> 80 ARPT BCN: CG
> 81 ARPT LGT SKED: SEE RMK
> 82 UNICOM:
> 83 WIND INDICATOR: YES-L
84 SEGMENTED CIRCLE: YES
85 CONTROL TWR: YES
86 FSS: KENAI
87 FSS ON ARPT: YES
88 FSS PHONE NR: 800-478-3576

**BASED AIRCRAFT**
90 SINGLE ENG: 54
91 MULTI ENG: 7
92 JET: 0
TOTAL: 61
93 HELICOPTERS: 0
94 GLIDERS: 0
95 MILITARY: 0
96 ULTRA-LIGHT: 0

**OPERATIONS**
100 AIR CARRIER: 1,045
102 AIR TAXI: 23,263
103 G A LOCAL: 6,326
104 G A ITNRNT: 6,429
105 MILITARY: 3,115
TOTAL: 40,178
OPERATIONS FOR 12 MONTHS ENDING 12/01/2011

2

1

3. Determine if the annual number of operations for air carriers #100, air taxis #102, military #105, and general aviation #103 plus #104 exceeds thresholds.

| | | | |
|---|---|---|---|
| Annual air carrier operations | 1,846 . | Is this 9000 or more | Yes ___ No X |
| Annual air taxi operations | 0 . | Is this 18,000 or more | Yes____No_X_ |
| Annual military operations | 110 . | Is this 18,000 or more | Yes____No_X_ |
| Annual general aviation operations | 2,685 . | Is this 72000 or more | Yes____No_X_ |

1. If you answer "No" on each of the questions above, it is assumed that the noise attributed to the airplanes will not extend beyond the boundaries of the airport. Maintain the documentation in your Environmental Review Record. You are finished with the evaluation of airport noise for this airport. If you have marked any question in #3 with "Yes," continue to 5.

2. Contact the airport manager, (see arrow #2 above) and ask them if the airport has noise contour maps. Are contour maps available?

☐ Yes. Locate your project on the noise contour map. If there are no roads or railroads that are being considered for noise, utilize the information from the contour map to determine if the site is acceptable. If roads or railroads are being considered input the information obtained from the airport noise contours, along with the road and railroad information in the HUD Noise Assessment Guidelines (NAG) or the online tool at https://www.hudexchange.info/environmental-review/dnl-calculator.

☐ No. Construct the approximate DNL contours by using the guidance on page 52 and 53 of the NAG. You will need to obtain the following information from the airport: 1). The number of nighttime jet operations (10pm to 7 am) 2). The number of daytime jet operations (7 am to 10 pm) 3). The flight paths of the major runways. 4). Any available information about expected changes in airport traffic (e.g. will the number of operations increase or decrease in the next 10 to 15 years).

**Contact your HUD Representative if you need assistance**

# AIRPORT MASTER RECORD INFORMATION

## ***BASED AIRCRAFT***

| | | |
|---|---|---|
| 90 | SINGLE ENG | **7** |
| 91 | MULTI ENG | **3** |
| 92 | JET | **0** |
| **Total** | | **10** |

| | | |
|---|---|---|
| 93 | HELICOPTERS | **5** |
| 94 | GLIDERS | **0** |
| 95 | MILITARY | **0** |
| 96 | ULTRA-LIGHT | **0** |

## ***OPERATIONS***

| | | |
|---|---|---|
| 100 | *AIR CARRIER* | **1,846** |
| *102* | *AIR TAXI* | **0** |
| *103* | *G A LOCAL* | **2,685** |
| *104* | *G A ITNRNT* | **0** |
| *105* | *MILITARY* | **110** |
| ***Total*** | | **4,641** |

**OPERATIONS FOR 12 MONTHS ENDING .....12/31/2024**

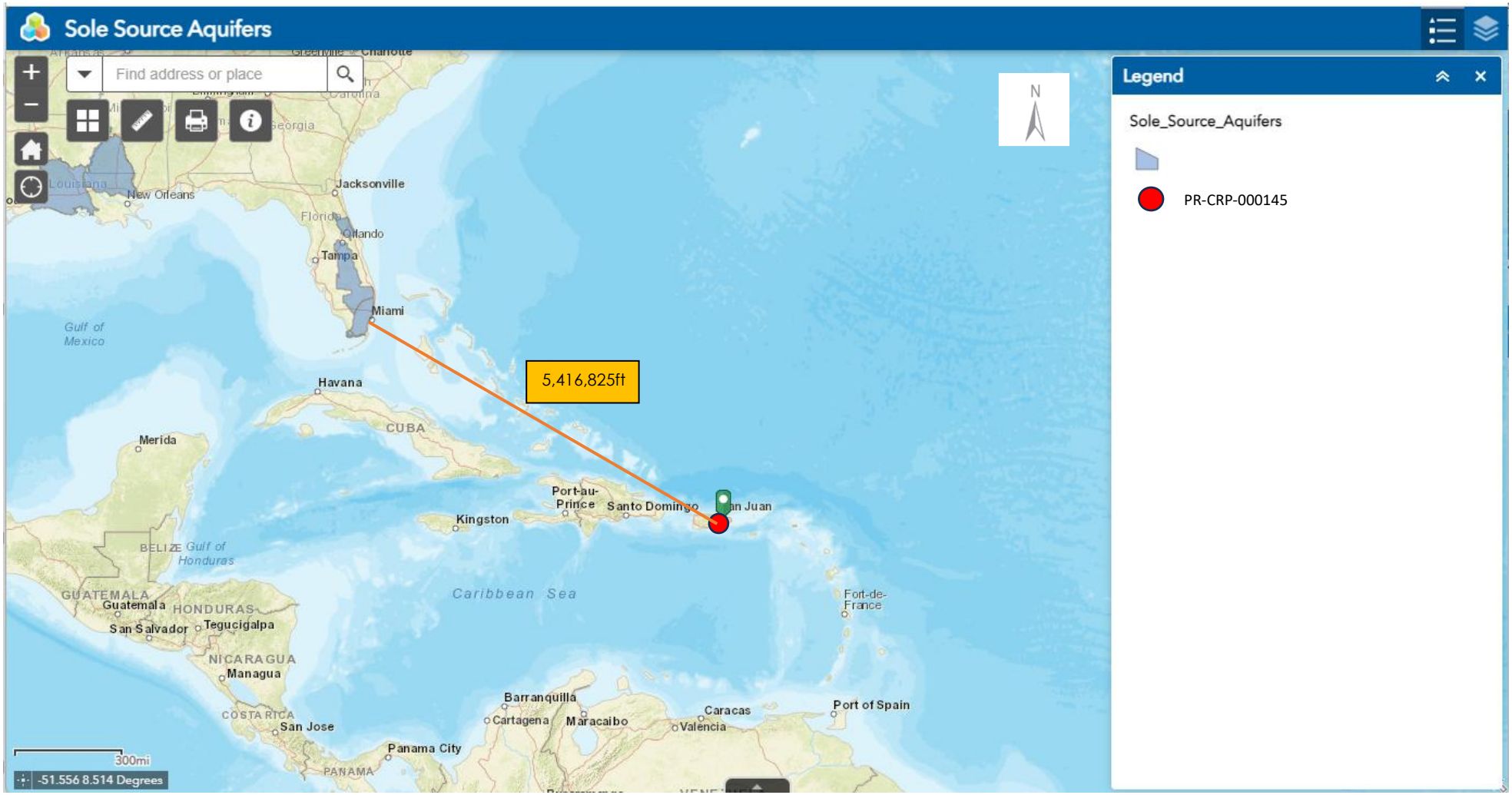
Attachment 13

Sole Source Aquifer Map

## Sole Source Aquifer Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**
**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR




Source: U.S. EPA Map of Sole Source Aquifer Locations (Spatial Reference: WGS84), accessed at URL https://www.epa.gov/dwssa/map-sole-source-aquifer-locations

Prepared by ICF

Attachment 14

Wetlands Map

# Wetlands Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR

Source: USFWS National Wetlands Inventory (NWI) (Spatial Reference: WGS84) URL https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/

Prepared by ICF

Attachment 15

Wild & Scenic Rivers Map

## Wild and Scenic Rivers Map

PR-CRP-000145 – Proyecto Residencial Comercial Pisos de Coamo

**Coord: 18.079420, -66.356738**

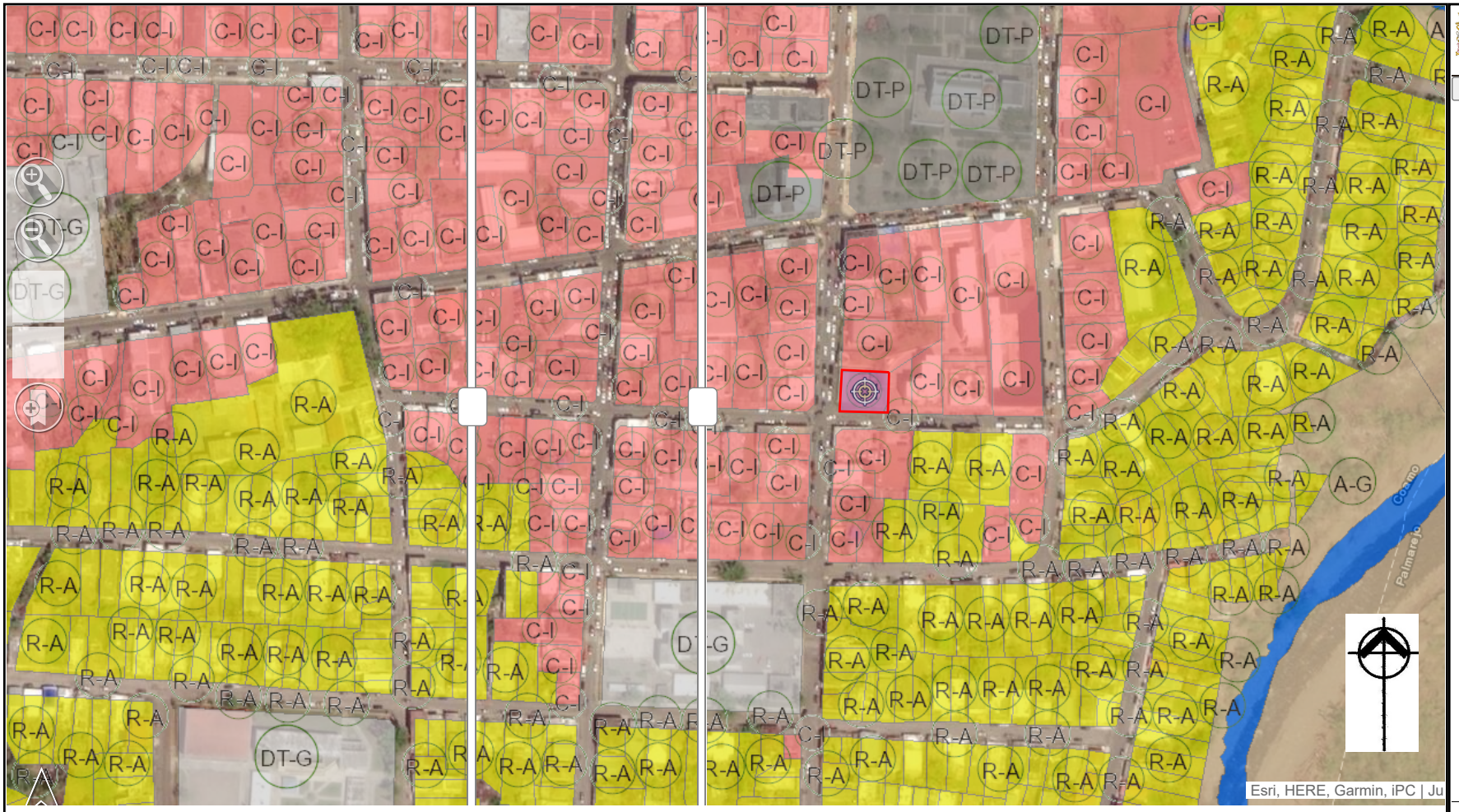
**Address:** 26 Florencio Santiago Street corner with Dr. José Celso Barbosa Street, Coamo, PR

Source: US Forest Service (USFS) (Spatial Reference: WGS84), accessed at URL https://www.arcgis.com/home/webmap/viewer.html?panel=gallery&layers=a37eb56966cc4b11b69909e288414e53

Prepared by ICF

Attachment 16

Planning Board Land Use Map




# ZONING MAP: PISOS DE COAMO

**#26 Florencio Santiago Street, Pueblo Ward, Coamo, Puerto Rico**

**C-I- Intermediate Commercial**

**NOT TO SCALE**

Attachment 17

Geo-technical Evaluation

# GEOTECHNICAL EVALUATION
# 3-STORY HIGH MIXED USE BUILDING
# NO. 26 FLORENCIO SANTIAGO STREET
# PUEBLO WARD, COAMO, PUERTO RICO
# (VERA JOB NO. 19-4458)

VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS
& CONCRETE TESTING LABORATORIES

AASHTO R18
ACCREDITED

Road #2 Km. 221.8 • El Tuque - PO Box 32198 • Ponce PR 00732-2198 • Tel. (787) 259-1410 / 843-6538 • Fax: 787-259-1604 • email: verivera@prtc.net

**GEOTECHNICAL EVALUATION**

3-STORY HIGH MIXED USE BUILDING
NO. 26 FLORENCIO SANTIAGO STREET
PUEBLO WARD, COAMO, PUERTO RICO
(VERA JOB NO. 19-4458)

**Submitted To:**
SANCHEZ ARANA, ARCHITECTS
J-26 VILLA CAPARRA
GUAYNABO, PR 00966

**Attention**
Ma. Ilia Sánchez Arana, AIA
Principal
e-mail: iliasanchezarana@yahoo.com

By:
VIVIAN MÉNDEZ BADÍA, M.C.E. P.E.
VICTOR E. RIVERA ROLDAN, M.B.A., P.E.
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INGENIERO LICENCIADO
LIC.#17493
PUERTO RICO

MAY 14, 2019

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EXHIBIT A: "Site Aerial Photo; Site and Borings Location Plan; and Borings Logs and Classification Tests Results"

EXHIBIT B: "Routine Field and Laboratory Testing Procedures"

## 1. INTRODUCTION

The current report presents the results of the subsoil exploration and geotechnical engineering evaluation performed along the site for the proposed mixed use building to be located at No. 26 Florencio Santiago Street, Pueblo Ward, Coamo, Puerto Rico

This evaluation was performed as requested by yourgoodself and as per our proposal dated April 30, 2019.

## 2. SCOPE AND FIELD WORK

The evaluation was conducted with the aim of deciphering the engineering and geologic characteristics of the subsoil underlain the site, and use the data thus gathered in formulating geotechnical recommendations for the site to receive the contemplated structure. These geotechnical recommendations include:

- Site development;
- Foundation design parameters;
- Anticipate any construction related problem and suggest the most feasible way to deal with it.

To comply with the before discussed scope, two (2) tests borings advanced by means of powered hollow stem augers were drilled at the approximate locations shown on the enclosed plan as per exhibit **A, "Site Aerial Photo; Site and Borings Location Plan; and Borings Logs and Classification Tests Results"**. Borings are identified as no. 1 and 2. The depth of the borings was 15.0ft for a total aggregate footage of 30.0 lineal feet of boring been drilled at the subject site.

Borings were staked-out in the field either using approximate tape measurements from existing reference points, or by the project surveyor. No drilling fluid was used. Borings were drilled using a truck mounted CME-55 drill rig.

All soil sampling was achieved by means of the universally adopted standard penetration test (SPT). All samples secured were visual-manually described and examined for the detection of any weak and/or secondary plane, or foreign/organic matter contain that could undermine it

shearing strength, thus it load carrying capacity and compressibility as well. Routine laboratory tests as moisture content ($w_n$) and unconfined compressive strength ($Q_u$) tests were ran whenever possible.

Please, find on attached exhibit **B**, **"Routine Field and Laboratory Testing Procedures"**, a full description of the methods followed in the routine testing program.

All depths mentioned on this report are referred to the existing ground surface at the time our field exploration was conducted (May 2, 2019). Elevations are referred to the project vertical control.

### 3. PROJECT GENERAL INFORMATION

The site location is shown on attached exhibit **A**. It corresponds to a vacant lot at Coamo downtown are of approximate plan dimensions of 61.5'Wx76'L (18.76mWx23.15mL). Its ground surface is mostly leveled and is covered by an asphaltic carpet. At present the lot harbors two structures to be demolished to accommodate the proposed building. At north and east the lot yields lots with concrete structures each that are very close to property limits.

The project consists on the construction of a 3-story high, mixed use building to be of the steel reinforced, cast in-place concrete type. The structure is to exhibit approximate plan dimensions of 52'Wx76'L hence, almost the entire lot aerial extension.

No information as of the designed grading is available, however, it is anticipated that a shallow fill layer, not exceeding one foot in thickness could be required to provide a leveled surface for the new building ground floor slab. No cut for grading purposes is anticipated. No other detail of the project is known as per today.

Utilities are anticipated to be of the underground type. Excavations for these purposes should not exceed an estimated depth of 3.0ft from existing ground surface.

No other structure or substructure is included in this geotechnical evaluation (retaining walls, foundation walls, etc).

Please, bear in mind the before given general description is aimed as an assistance for a better understanding of the project and of this report content by the user. In no case, it constitutes a precise and complete description of the project, but most of it highlights as forehanded by the designing office. Complete information pertaining earthwork and all other project details for

quantification and cost estimates should be obtained on corresponding construction final drawings once they become available.

## 4. GEOLOGICAL SETTING

According to the US Geological Survey Maps I-335, "*Preliminary Report on the Geology of the Coamo Quadrangle, Puerto Rico [Lynn Glover III, (1961)]*", two (2) main naturally occurring geologic units should surficially prevail along the sites. These are identified as:

***Qat*** – *terraced alluvium, gravel and sand, commonly with cobbles and boulders, and generally with little silt and clay, terraces above present flood level.*

***Kcot*** – *tuff-breccia, tuffaceous conglomerate, and lapilli tuff, mostly dark gray to greenish black, weathering to bright reddish and purplish (volcanic).*

The first corresponds to transported soils of alluvial origins. Terraced alluvium are deposited by river and/or creek streams during receding of the flooding, but later left behind as the streams carved new courses. In any case, main contributor to such deposit at the current explored location is Coamo River found several hundred meters east of the site.

The breccia, conglomerate, and tuff correspond to rock particles that resulted from a volcanic eruption and deposited within a mass of molten rock (lava). Once lava solidifies with the particles in it, it becomes a rock of volcanic origin. As with any type of rock, it can be subjected to physical and chemical weathering. When the soil still shows the parent rock structure and high state of packing is generally called saprolite or "tosca".

The visual manual description, confirms the presence of both units.

## 5. GENERALIZED SUBSOIL CONDITIONS

### 5.1. Generalized Subsoil Profile

The generalized subsoil conditions as uncovered by the test-boring can be divided into the two (2) horizons: a terraced alluvium deposit overlaying saprolite one. Each is briefly described below.

**Terraced alluvium deposit**: It is found at both locations extending from the ground surface down to approximately 9.5 ft deep. Its topmost 1 to 1.5 foot corresponds to a topsoil layer

consisting of clay with some sand exhibiting stiff consistency. It is dark brown and black colored.

Underneath down to 9.5ft deep the sand content increases and the deposit becomes sandy clay with a trace to some gravel size particles. Samples exhibit consistencies ranging from very stiff to third and are brown colored.

**Saprolite deposit**: it is found underneath the terraced alluvium extending down to the drilled depths. It is samples as silt and weathered rock fragments with trace to some sand. According to the reported N values the deposit exhibits state of packing ranging from dense to very dense. It exhibits gray, purple and brown colors.

### 5.2. Ground Water Level

The site ground water level was not established within the depths drilled thus inferring that any water level shall be found deeper.

Please, see enclosed boring logs as per exhibit **A** for a more detailed description of all soil stratigraphic units encountered, field and laboratory results. **These logs represent our best interpretation of the subsurface conditions based on the field data, and the visual-manual examination of the grabbed samples. The stratification lines and depth designations represent approximate boundaries between the subsurface strata. Actual transitions between strata may be gradual, and subsurface conditions between each boring location may vary.**

## 6. CONCLUSIONS AND RECOMMENDATIONS

The result of our investigation shows that the proposed building can be safely constructed, and the site developed, according to our conclusions and recommendations discussed on forthcoming items. Fill placement or construction can proceed directly above the existing asphaltic carpet.

### 6.1. Site Development

Any fill placement aimed at reaching final grade shall be executed in strict accordance to the following guidelines and specifications:

1. Remove any demolition debris. All material resulting from this clearing operation must be disposed of in an orderly manner.

2. Before any placement of fill is made, roll the exposed area (including remaining asphaltic carpet) until a neat and stable platform is attained. If any weak or soft spot is uncovered, it shall be fully excavated.

3. All soil-aggregate mixture for fill purposes shall meet an A-2 or better classification as per AASHTO M145 standard. A deviation from the before fill material(s) classification can be allowed but always directed by the geotechnical engineer and/or his/her representatives. In same fashion the maximum size of the fill aggregate shall not exceed 6 inches to achieve the recommended compaction criterion to be detailed ahead.

4. Place the new fill deposit in layers not exceeding 10 inches, loose measured, and each layer shall be imparted with a minimum percent of compaction of 95% of the new fill material maximum dry density (MDD) as obtained from laboratory compaction curves conducted according to ASTM standard D1557, Modified Proctor Test. Whenever the minimum percent of compaction is not attained, additional rolling shall be performed to obtain said density, or otherwise the contractor must obtain the appropriate equipment and/or adopt any other sound practice to comply with the compaction criteria. Layer thickness can be modified according to the compaction rig used and the supervising geotechnical engineering.

5. The new fill material shall exhibit a moisture content ranging from 2 to 4% **above** the corresponding optimum moisture content (OMC) prior to impart any compaction effort.

6. This fill procedure must be conducted until final grade is reached.

7. No fill material shall be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the field tests made by the geotechnical engineer or his/her representative indicates that the moisture content and density of the fill are as previously specified.

8. Any resulting fill slope shall be made 2:1 (horizontal to vertical) regardless of its height and shall be superficially stabilized by chain rolling but to such a density that vegetation

growing is allowed. It also shall be protected against gully and sheet erosion by providing proper drainage facilities and sodding. Avoid any surface drainage down the slopes.

9. All fill operations shall be supervised by a geotechnical engineer or his representative whom is to certify the quality degree achieved.

It is strongly suggested to visual carefully inspect the neighboring lots structures including taking photos and/or videos recording the conditions of the same before fill placement and construction of the structure is attempted. By doing so, frivolous damage claims against all concerned parties related to damage induced by vibration of construction equipment could be avoided in the future, an if not avoided, the proper documentation, said photos and/or videos, shall serve in proofing against any such claim.

### 6.2 Foundation Design Parameters

After preparation of the site as described before, the building can safely put to rest over conventional individual footings proportioned for an allowable bearing capacity ($q_a$) of 4,000 pounds per square foot (psf) and cast at a minimum foundation depth ($D_f$) of 2.0 ft below **existing** ground surface. This corresponds to an elevation of 125.28m.

To arrest lateral/sliding forces of footings, take a coefficient of friction of 0.32 (equivalent to a concrete-soil friction angle of 18°) between the footings concrete and natural cohesive bearing soils. Passive contribution in front of footings can be considered. An angle of internal friction of 18° for natural cohesive soils can be adopted.

The ground floor slab can rest directly over the asphaltic carpet or fill placed and compacted as detailed in section 6.1. A modulus of subgrade reaction, Ks, of 225 pci for A-2 or better materials anticipated to result below slab.

Foundations excavations backfill shall be conducted under an engineered quality control program as described in section 6.1. Notice that the compaction equipment here should be a small roll or damper, thus the backfill lift thickness is not to exceed 6 inches.

### 6.3 Temporary Loads and Seismic Design Parameters

The allowable bearing pressures can be increased 33% of the corresponding given values to deal with short term loading conditions due to earthquake and/or winds for all structures.

According to the International Building Code (2009) and down to the limited depth drilled (30.0ft.), the designer should consider a soil profile type D (stiff soil profile) in designing the structures for seismic considerations.

### 6.4 Excavations

All excavations can be performed by means of a medium size backhoe down to the anticipated foundation or utilities depths.

**All excavation shall be performed in accordance with Occupational Safety and Health Administration (OSHA) excavation standard, 29 CFR Part 1926 subpart P, published by the U.S. Department of Labor, and/or any other applicable local standard.**

All excavations backfill shall be conducted as per section 6.1. Notice that the compaction equipment here should be a small roll or damper, thus the backfill lift thickness is not to exceed 6 inches. Each lift shall be compacted to not less than 95% of the backfill maximum dry density (MDD) as obtained by means of laboratory compaction curve tests conducted as per ASTM D1557 standard (Modified Proctor).

### 6.5 Dewatering of Excavations

No dewatering of excavations is anticipated except that from run-off and rain. Any such kind of water entering the excavations can be pumped- out directly and the dampened soil be removed from the excavation before any concrete pour is made.

## 7. ADDITIONAL COMMENTS

In the preceding discussions, we have presented our conclusions and recommendations based upon results attained from our field exploration made by means of test borings, visual inspection of the site area, and soil parameter assumptions and other pertinent information advanced to this office. They apply only for the type of construction and scope of work herein detailed. It is our understanding best geotechnical engineering practices were adopted in achieving said goals.

Differing conditions could arise among borings locations as the field work progresses. If any such differing conditions arise, the geotechnical engineer in charge must carry out the pertinent evaluation and produce, at his own risk, the recommendations to deal with such event.

**No grading plan is available as per today but just a preliminary information verbally advanced to the undersigned, hence we strongly request said plans be submitted to this office once they become ready to conduct the pertinent evaluation, and determine, based upon the said evaluation, if any change or modification of the recommendations given is deemed necessary.**

Respectfully submitted,

Vivian Méndez Badía, MCE, PE
Project Engineer

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Victor E. Rivera Roldán, MBA, PE
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INGENIERO LICENCIADO
Lic.5008
PUERTO RICO

701710
CAAPPR
$1.00

**EXHIBIT "A"**

**SITE AERIAL PHOTO; SITE AND BORINGS LOCATION PLAN;**

**AND BORINGS LOGS AND CLASSIFICATION TESTS RESULTS**

3-STORY HIGH MIXED USE BUILDING

NO. 26 FLORENCIO SANTIAGO STREET

PUEBLO WARD, COAMO, PUERTO RICO

(VERA JOB NO. 19-4458)

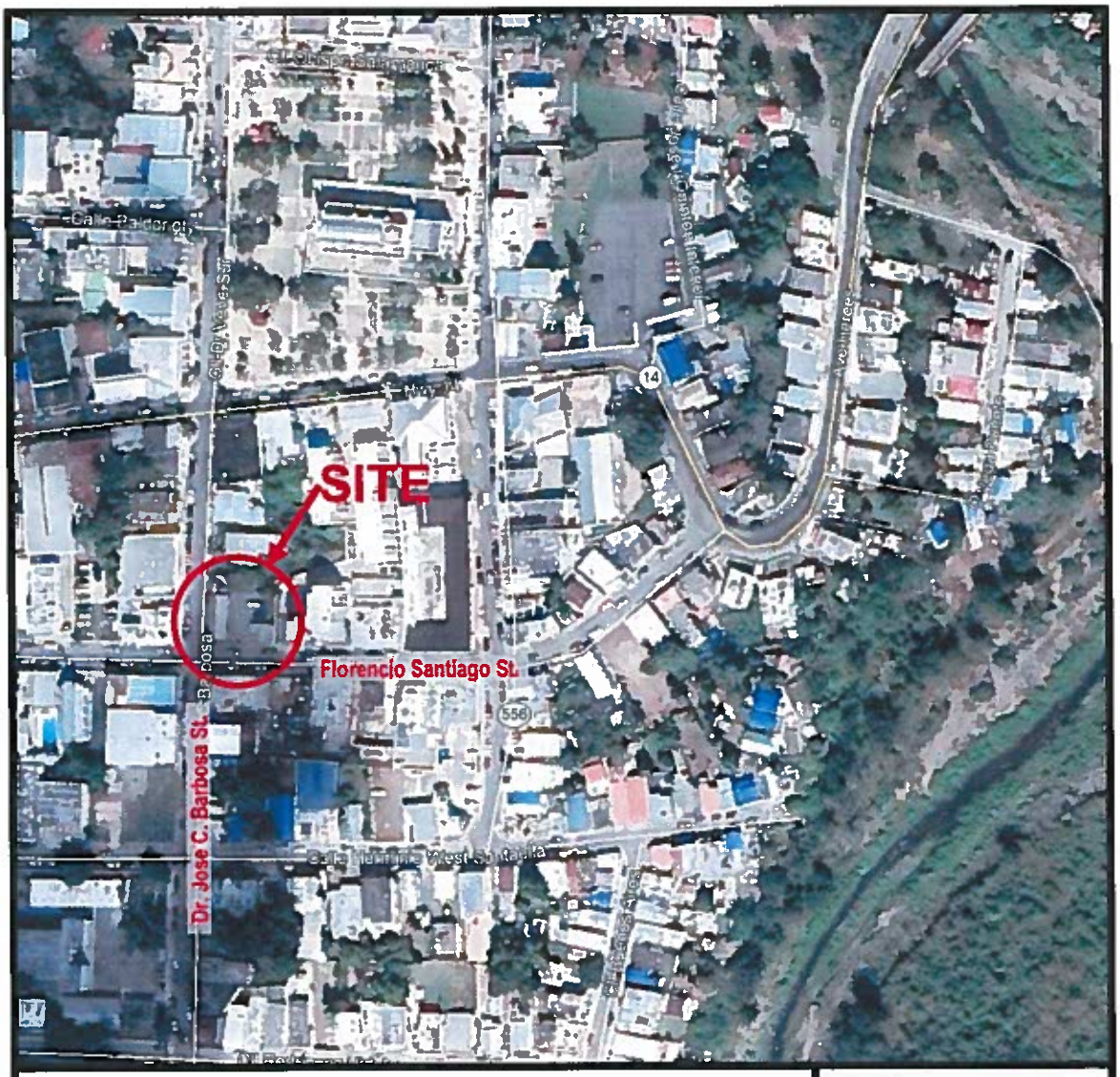
By:

VIVIAN MENDEZ BADIA, M.C.E. P.E.
VICTOR E. RIVERA ROLDAN, M.B.A., P.E.
VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS

MAY 14, 2019

# SITE AERIAL PHOTO

after Google Earth©




**3-STORY HIGH MIXED-USE BUILDING**
NO. 26 FLORENCIO SANTIAGO STREET
PUEBLO WARD, COAMO, P.R

*SANCHEZ ARANA, ARCHITECTS*

DATE: 5/14/2019

JOB NO.: 19-4458

SCALE: NOT TO SCALE

VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS
& CONCRETE TESTING LABORATORIES

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PO Box 32198
Ponce, PR 00732-2198

# VICTOR E. RIVERA ASSOCIATES, LLC

Geotechnical Engineers

Tels.: (787) 259-1410
Email: verivera@prtc.net

PROJECT: 3-Story High Mixed Use Building BORING NO.: 1 SHEET NO.: 1/1

LOCATION: Pueblo Ward, Coamo, Puerto Rico CLIENT: Sanchez Arana - Architects

INSPECTOR: V. Rivera DRILLER: A. Maldonado WORK STARTED: 5-02-19 WORK FINISHED: 5-02-19

POWER DRIVEN HOLLOW STEM AUGER; SAMPLE-TYPES & SIZES 1 3/8" I.D. SPLIT SPOON HAMMER WGT: 140 POUNDS

HAMMER DROP: 30" DRILLING FLUID: NONE CORE DATA-TYPE BARREL: ------ TYPE & SIZE BIT: ------

GROUND WATER: DATE AND DEPTH: NONE DRILL MANUFACTURER TYPE & NO. CME-55

"X" COORDINATE: ----- "Y" COORDINATE: ----- ELEVATION: 125.89m JOB NO.: 19-4458

| DEPTH (FT.) | ELEV. (M) | S.P.T. "N" VALUES (1) | DESCRIPTION OF MATERIALS | N | $W_N$ | Qu | LL | PI | % | Td |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 125.59 | 4 – 2 | Clay / trace to some sand, stiff – dark brown / black (a) -1.0' | 6 | 20.9 | — | 36 | 15 | 49.1 | |
| 2 | | 3 – 4 | | | | | A-6(4) / CL | | | |
| 3 | | 3 – 5 | | 11 | 24.9 | 3.71 | | | | |
| 4 | | 6 – 10 | | | | | | | | |
| 5 | | 3 – 5 | | 11 | 20.6 | 3.21 | | | | |
| 6 | | 6 – 8 | Sandy clay / trace to some gravel, very stiff to hard - | | | | 33 | 13 | 52.8 | |
| 7 | | 8 – 9 | brown (a) | 16 | 19.8 | 3.41 | A-6(4) / CL | | | A |
| 8 | | 7 | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | 122.99 | 6 – 15 | -9.5' | 34 | 14.9 | — | | | | |
| 11 | | 19 | | | | | | | | |
| 12 | | | Silt and weathered rock fragments / trace to some | | | | | | | |
| 13 | | | sand, dense to very dense – brown / gray / purple (b) | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | 121.32 | 48 – 50/4" | -15.0' | 50/4" | 9.7 | --- | | | | |
| 16 | | | END OF BORING | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | (a) Terraced alluvium deposit | | | | | | | |
| 31 | | | (b) Saprolite (weathered volcanic rock) | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| 35 | | | | | | | | | | |

* = INDICATED AS NEEDED
(1) NO. OF BLOWS REQUIRED TO DRIVE SAMPLER 0"-6", 6"-12", 12"-18", 18"-24"
(2) FORCE TO CAUSE THIN WALLED SAMPLER TO PENETRATE AT RATE ½ FT/SEC
$W_N$ = NATURAL MOISTURE CONTENT IN % OF DRY WEIGHT
Qu = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT.
Td = TYPE OF DRILLING
(A) = STANDARD BORING IN SOILS SHOWING "N" VALUES BELOW 50
(B) = ROTARY DRILLING USING ALLOY DRAG BIT AND/OR IN SOILS SHOWING "N" VALUES ABOVE 50

N = SUM OF SAMPLER PENETRATION FROM 6" TO 18"
LL = LIQUID LIMIT
PI = PLASTICITY INDEX
% = PERCENT FINER THAN NO. 200 SIEVE

PO Box 32198
Ponce, PR 00732-2198

# VICTOR E. RIVERA ASSOCIATES, LLC

Geotechnical Engineers

Tels.: (787) 259-1410
Email: verivera@prtc.net

PROJECT: 3-Story High Mixed Use Building BORING NO.: 2 SHEET NO.: 1/1

LOCATION: Pueblo Ward, Coamo, Puerto Rico CLIENT: Sanchez Arana - Architects

INSPECTOR: V. Rivera DRILLER: A. Maldonado WORK STARTED: 5-02-19 WORK FINISHED: 5-02-19

POWER DRIVEN HOLLOW STEM AUGER; SAMPLE-TYPES & SIZES 1 3/8" I.D. SPLIT SPOON HAMMER WGT: 140 POUNDS

HAMMER DROP: 30" DRILLING FLUID: NONE CORE DATA-TYPE BARREL: ------ TYPE & SIZE BIT: ------

GROUND WATER: DATE AND DEPTH: NONE DRILL MANUFACTURER TYPE & NO. CME-55

"X" COORDINATE: ----- "Y" COORDINATE: ----- ELEVATION: 126.02m JOB NO.: 19-4458

| DEPTH (FT.) | ELEV. (M) | S.P.T. "N" VALUES (1) | DESCRIPTION OF MATERIALS | N | $W_N$ | Qu | LL | PI | % | Td |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 6 – 3 | Clay / trace to some sand, stiff – dark brown / black (a) | 6 | 23.8 | --- | 39 | 17 | 80.8 | |
| 2 | 125.41 | 3 – 4 | -1.0' | | | | A-6(14) / CL | | | |
| 3 | | 3 – 4 | | 11 | 24.5 | 4.12 | | | | |
| 4 | | 7 – 9 | | | | | | | | |
| 5 | | 4 – 5 | | 12 | 23.6 | 4.62 | | | | |
| 6 | | 7 – 9 | Sandy clay / trace gravel, very stiff to hard – brown (a) | | | | 41 | 16 | 76.8 | |
| 7 | | 9 – 9 | | 22 | 27.6 | 3.83 | A-7-6(13) / CL | | | A |
| 8 | | 13 | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | 123.12 | 15 – 17 | -9.5' | 35 | 15.2 | --- | | | | |
| 11 | | 18 | Silt and weathered rock fragments / trace to some sand, dense to very dense – brown / gray / purple (b) | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | 121.45 | 55/6" | -15.0' | 55/6" | 10.4 | --- | | | | |
| 16 | | | END OF BORING | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
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| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | (a) Terraced alluvium deposit | | | | | | | |
| 31 | | | (b) Saprolite (weathered volcanic rock) | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| 35 | | | | | | | | | | |

* = INDICATED AS NEEDED
(1) NO. OF BLOWS REQUIRED TO DRIVE SAMPLER 0"-6", 6"-12", 12"-18", 18"-24"
(2) FORCE TO CAUSE THIN WALLED SAMPLER TO PENETRATE AT RATE ½ FT/SEC.
$W_N$ = NATURAL MOISTURE CONTENT IN % OF DRY WEIGHT
Qu = UNCONFINED COMPRESSIVE STRENGTH IN TONS PER SQ. FT.
Td = TYPE OF DRILLING
(A) = STANDARD BORING IN SOILS SHOWING "N" VALUES BELOW 50
(B) = ROTARY DRILLING USING ALLOY DRAG BIT AND/OR IN SOILS SHOWING "N" VALUES ABOVE 50

N = SUM OF SAMPLER PENETRATION FROM 6" TO 18"
LL = LIQUID LIMIT
PI = PLASTICITY INDEX
% = PERCENT FINER THAN NO. 200 SIEVE

**EXHIBIT "B"**

**ROUTINE FIELD AND LABORATORY TESTING PROCEDURES**

3-STORY HIGH MIXED USE BUILDING

NO. 26 FLORENCIO SANTIAGO STREET

PUEBLO WARD, COAMO, PUERTO RICO

(VERA JOB NO. 19-4458)

By:
VIVIAN MENDEZ BADIA, M.C.E. P.E.
VICTOR E. RIVERA ROLDAN, M.B.A., P.E.
VICTOR E. RIVERA ASSOCIATES, LLC
GEOTECHNICAL ENGINEERS

VICTOR E. RIVERA ROLDAN
INGENIERO LICENCIADO
Lic.5008
PUERTO RICO

VIVIAN M. MÉNDEZ BADÍA
INGENIERO LICENCIADO
LIC # 17493
PUERTO RICO

MAY 14, 2019

EXHIBIT "B"

## ROUTINE FIELD AND LABORATORY TESTING PROCEDURES

The borings were made by the Auger Drilling Method or Process. The Auger Drilling Method consist of powered turning a continuous flight hollow stem auger 6" O.D. and 2 ½" I.D. into the soil to the desired depth or level. The auger is used to advance and case the test hole simultaneously. It is used with a center rod and plug assembly at it lower end. The plug assembly is held in-place by the cap inside drill rod and is coupled to the auger and its assembly to the rotating spindle on the drill rig, thus preventing dirt from entering the mouth of the auger.

Once the desire depth of level for sampling is reached, the plug is retracted by withdrawing the center rod to permit lowering of the sampler or core barrel, as the case may be, through the auger. After the sampler is retracted, the plug is reinserted and held in-place by the center rod, another auger section is connected to the first, together with one additional center rod to secure the plug to the cap, and the hole is advanced.

This procedure is repeated until the desire hole depth is reached. The auger can always be stopped at any depth level to allow normal sampling practice.

Soil samples are secured from the bottom of the hole by means of a 1 3/8" I.D. Split Spoon Sampler. While securing the soil samples, the standard penetration test is performed and the "N" values obtained. This is the number of blows required to drive the sampling spoon at a distance of 1 foot into the ground with 140 pounds hammer falling 30 inches. The "N" values give an indication of the consistency of cohesive soils and the state of packing of granular soils as follows:

COHESIVE SOILS

| "N" Value (Blow/Ft.) | Consistency | Unconfined Compressive Strength (TSF) |
|---|---|---|
| Less than 2 | Very Soft | 0.25 |
| 2-4 | Soft | 0.25 - 0.50 |
| 4-8 | Medium | 0.50 - 1.00 |
| 8-10 | Stiff | 1.00 - 2.00 |
| 15-30 | Very Stiff | 2.00 - 4.00 |
| More than 30 | Hard | 4.00 |

GRANULAR SOILS

| "N" Values (Blows/Ft.) | Relative Density |
|---|---|
| 0-5 | Very Loose |
| 5-10 | Loose |
| 10-30 | Medium |
| 30-50 | Dense |
| Over 50 | Very Dense |

## LABORATORY WORK

### IDENTIFICATION OF SOILS

Soil samples are classified according to their constituents, and the following terminology is used to denote the percentage by weight of each component:

| Description Term | Range of Proportion (%) |
|---|---|
| Trace | 1-10 |
| Some | 10-20 |
| Adjective (sandy, silty, clayey) | 20-35 |
| And | 35-50 |

Granular soils are non-cohesive soils consisting of boulders, gravel, sand, silt, either separately or in combination, that is, soil showing no-plasticity.

Boulders are the constituents with an average diameter larger than 3-inches. Gravel ranges from fine (No. 10 Sieve) to coarse (3 inches sieve). Sand particles are those passing No. 10 Sieve and retained on No. 200 mesh. The silt particle ranges from 0.66 to 0.002 mm.

Cohesive soils are those which possess characteristics of cohesiveness and plasticity. They may be granular soils as described above with the addition of clay or organic silt which causes cohesion and plasticity, or may be clay or organic silt with no coarse components.

The clay fraction is composed of clay minerals and in general has an average particle diameter of less than 0.002 mm.

The organic fraction is that portion with average particle diameter less than 0.06 mm. The clay and organic silt may occur separately or in conjunction.

Both materials will exhibit plastic qualities within a certain range of water content, but the range will be greater in the case of clay. The organic silt has a more granular appearance than the clay.

Besides the constituents and colors, each sample is carefully examined for stratifications, presence of secondary structures, shells, fibrous or disseminated peat, plasticity, or any foreign matter that might undermine it shearing resistance, that is, it load carrying capacity.

## NATURAL MOISTURE CONTENT

The natural moisture content is determined by finding the quality of water present in the voids of the soil specimen in the natural condition and dividing it by the dry weight of the sample. The result thus attained is expressed as a percentage (dry weight basis).

The weight of the water is determined by subtracting the weight of a soil specimen in its natural condition from the weight of the specimen after been dried in an oven at 105 C twenty-four (24) hours.

## UNCONFINED COMPRESSION TESTS

The cohesive soil specimens obtained from split spoon samples, cannot be considered as undisturbed samples, nevertheless, their unconfined compressive strength can be easily determined to obtain some information as to the shearing strength. Unconfined compressive strength tests were performed by subjecting cylinders of soil some 2.75" high by 1.375" in diameter to axial deflection at a constant load and measuring the resisting stress developed in the soil.

The load applied on the samples is measured by a scale and the deflection recorded on a strain dial calibrated in thousands of an inch.

## OTHER DRILLING METHOD

A. Semi-Consolidated or Gravel Materials
(B-Type of Drilling) Where Applicable:

Advancement of the hole into semi-consolidated or gravelly deposit generally showing "N" values below 50 by means of the conventional method previously described results on a very low and costly operation, thus, requiring a different system for deepening the hole. On this case, a combined drilling and sampling method is used.

Sampling is made on the standard way already discussed, however, advancement of the hole is achieved by means of rotary drilling using alloy drag bit placed at the lower end of the powered turning rod. This method also combines from the standard wash boring the jet of water to clean-out the soil debris produced by the drilling action.

B. Rock Coring (C-Type of Drilling) Where Applicable:

This method is applied for drilling into hard or consolidated rock and some coarse gravel and boulder deposits, and basically consist of drilling with diamond bits secured to the lower end of a rock sampler (core barrel). This barrel is double tubed to insure a high percentage of core recovery for most adequate evaluation of the rock sample.

Respectfully Submitted,

VICTOR E. RIVERA ASSOCIATES
GEOTECHNICAL ENGINEERS

Attachment 18

PRASA Letter and other permits

GOBIERNO DE PUERTO RICO

Autoridad de Acueductos y Alcantarillados

01 de diciembre de 2020

Ing. Gabriel Hernández Rodríguez
Secretario Auxiliar
Oficina de Gerencia de Permisos (OGPe)
PO BOX 41179
San Juan, Puerto Rico 00940-1179

Ingeniero Hernández Rodríguez:

**AAA-RS-20-22-0006; COAMO – CONSTRUCCION DE EDIFICIO DE TRES NIVELES (RESIDENCIAL Y COMERCIAL)**
**CALLE FLORENCIO SANTIAGO 26 – CALLE BARBOSA**
**12 UNIDADES EQUIVALENTES**
**OGPe; 2019-295028-SRI-037932**
**(RECOMENDACIÓN)**

Nos referimos al proyecto de epígrafe, sometido ante nuestra consideración para que se informe en cuanto a las facilidades de los servicios de agua y alcantarillado sanitario existentes, que puedan servir al mismo. De acuerdo al memorial explicativo el proyecto propuesto consiste de la construcción de un edificio de uso mixto comercial en el primer piso y seis (6) apartamentos distribuidos en el segundo y tercer piso.

**Sistema de Acueductos**

El servicio de agua podrá ser prestado mediante conexión a la tubería existente en la carretera municipal frente al desarrollo.

De acuerdo a la investigación de esta Autoridad actualmente el servicio de agua para este sector puede experimentar bajas presiones por lo que se condiciona el mismo a lo siguiente:

- Deberá construir un sistema interno para el manejo de presiones, el mismo será de carácter privado.
- Deberá instalar una válvula de control tipo combinada igual o similar a Cla-Val 92-01 & 692-01.

Será necesario que el desarrollador del proyecto pague a esta Autoridad, la cantidad de quinientos ($500.00) dólares por cada unidad o su equivalente a conectarse, para hacer uso del sistema de distribución de agua existente.

**Sistema de alcantarillado sanitario**

El servicio de alcantarillado sanitario, para este proyecto, podrá ser prestado mediante conexión a la tubería existente frente al desarrollo.

Será necesario que el desarrollador del proyecto pague a esta Autoridad, la cantidad de quinientos ($500.00) dólares por cada unidad de vivienda o su equivalente a conectarse, para hacer uso del sistema de alcantarillado sanitario existente.

Autoridad de Acueductos y Alcantarillados

Antes de iniciar el proceso de construcción, deberán radicar a través de la Oficina de Gerencia de Permisos (OGPe) los planos de las obras de acueducto y alcantarillado sanitario para la aprobación de la AAA, los cuales deberán estar sellados y firmados por el profesional responsable de los mismos.

Estos incluyen, según aplique al caso, planos que contemplen:

- Sistemas de distribución de agua y su conexión a los sistemas de la AAA
- Relocalización o extensión de obras de acueducto
- Obras Extramuros e Instalaciones para ser transferidas a la AAA para su operación

Deberá cumplirse con los requisitos establecidos en el *Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos.*

Los planos deberán ser sometidos y aprobados por esta Autoridad, de acuerdo al Reglamento para la Certificación de Planos de Construcción, antes de proceder con la construcción de las obras.

Al someter el plano final para aprobación, se deberá cumplir también con los siguientes requisitos:

1. Someter los documentos de certificación del ingeniero o arquitecto debidamente cumplimentados

    a. AAA-972 (Solicitud de Aprobación de Planos de Construcción)
    b. AAA-1294 (Certificación de Ingeniero o Arquitecto)

2. Someter un estimado desglosado y por partida de las obras de acueducto y alcantarillado sanitario a instalarse en el proyecto.

*El cómputo final de las unidades equivalentes estará basado en lo que, al presentar los planos hidráulicos, resulte ser la demanda requerida para el proyecto propuesto. Si las unidades equivalentes, resultan ser diferente a lo contemplado para fines de esta evaluación, esta Autoridad se reserva el derecho de modificar los términos de esta recomendación.*

Estas recomendaciones estarán vigentes por el término de dos (2) años, a partir de la fecha de esta comunicación, al cabo del cual, de no haberse sometido planos de construcción de las obras de acueducto y alcantarillado sanitario , el proyecto deberá someterse nuevamente ante la consideración de esta Autoridad.

Cordialmente,

Ing. Ausberto Santisteban Rodríguez, PE
Gerente Técnico

ASR/JBS/gtb

c: expediente, Archivo de Lectura, Director de Área, Agencia Comercial, Desarrollador

ESTADO LIBRE ASOCIADO DE PUERTO RICO
***AUTORIDAD DE ENERGÍA ELÉCTRICA DE PUERTO RICO***
***INGENIERÍA DE DISTRIBUCIÓN***
REGIÓN DE PONCE

PO BOX 7355
Ponce, PR 00732

Teléfono: 787- 812-8545
Fax: 787-812-8613

9 de diciembre de 2020

Sra. Iliana Garay Oh
Gerente Interina de Infraestructura, OGPe
PO Box 41179
Santurce, PR 00940-1179
*garay_i@ogpe.pr.gov*

Estimada señora Garay:

**Proyecto: Pisos de Coamo**
**Localización: 26 Florencio Santiago Esq. Barbosa, Coamo**
**AEE Núm.: 20-3-098 WR 5730831 Carga: 100 kVA**
**Caso: 2020-335946-SRI-037916**

Nos referimos a su solicitud de información con la cual nos incluía el plano de situación y localización del proyecto de referencia. Para punto de conexión y condiciones para los planos de diseño requeridos, refiérase al croquis y a las notas incluidas.

Se requiere presentar cómputos de carga, tensión y flecha para los sistemas aéreos. Se requiere presentar cómputos de caída de voltaje para diseños de sistemas soterrados. Será responsabilidad del dueño, indicar la localización exacta y coordinar la reubicación de líneas eléctricas, de ser necesario. Todas las coordenadas indicadas en esta evaluación son en el sistema *North American Datum 83, unidades en metros.*

Incluimos información gráfica sobre las facilidades eléctricas y la siguiente información:

1. Existen líneas de distribución primaria a un voltaje de 4.16 kV, 4 conductores, calibre 4 Cu HD y de distribución secundaria a un voltaje de 120/240V.

2. El voltaje de alimentación será de 2.4/4.16 kV (A4602-03) desde el punto de conexión (208101.5246, 227216.2074) indicado en el croquis adjunto. Para servir el proyecto la AEE interceptará, con cargos al dueño, la línea primaria trifásica con un poste de hormigón 45 pies en el punto de conexión. Coordinar detalles y costos de conexión con el Ingeniero de Distrito de Santa Isabel.

3. El punto de conexión indicado se denomina *Punto de Entrega*. No se transferirá a la AEE la infraestructura eléctrica desde este punto. El servicio que se deriva del mismo es considerado como exclusivo y privado, por lo que el mantenimiento y remplazo del sistema es responsabilidad del dueño o administrador del proyecto.

*"Somos un patrono con igualdad de oportunidades en el empleo y no discriminamos por razón de raza, color, sexo, edad, origen social o nacional, condición social, afiliación política, ideas políticas o religiosas; por ser víctima o ser percibida víctima de violencia doméstica, agresión sexual o acecho; por impedimento físico, mental o ambos o condición de veterano."*

4. El dueño será responsable de extender la toma primaria desde la acometida soterrada requerida en el punto de conexión hasta el proyecto. Deberá tramitar los permisos y servidumbres correspondientes de parte de los propietarios o agencias afectadas. Incluya nota al efecto en los planos de diseño.

5. Deberá tomar las debidas precauciones, utilizar equipo protector y seguir las reglas de seguridad necesarias al trabajar cerca de líneas eléctricas energizadas. Deberá coordinar con el Ingeniero de Distrito de Santa Isabel la desconexión de energía en las líneas vivas cuando la proximidad de los trabajos a éstas sea de alto riesgo y exposición. Deberá coordinar con la AEE la instalación de cubierta aislante en conductores energizados cuando sea necesario.

6. Se requerirá instalar desconectivos con protección de fusibles a la entrada del proyecto en el punto de conexión. Incluya detalles al respecto en los planos de diseño.

7. **En conformidad con el Comunicado 09-06, la AEE permitirá que el servicio a múltiples clientes por medio de un transformador tipo plataforma con frente muerto sea alimentado de forma radial.** Esta excepción se permite solo bajo las siguientes condiciones:
    a. El transformador no se transferirá a la AEE. El servicio que se deriva del mismo es considerado como exclusivo y privado, por lo que el mantenimiento y remplazo del transformador es responsabilidad del dueño o administrador de la estructura.
    b. La instalación del transformador será en una plataforma de hormigón accesible a vehículos utilizados para su operación y mantenimiento. Los planos de diseño deberán ilustrar la ruta de acceso vehicular al transformador.

    Otros detalles y condiciones aplicables se detallan en el referido comunicado. Incluir detalles y notas al efecto en los planos de diseño.

8. Todo transformador a conectarse al sistema eléctrico de la AEE deberá ser diseñado y construido con características de pérdidas mejoradas. El dueño del proyecto deberá coordinar con el Ingeniero de Distrito de Santa Isabel el voltaje primario a ser utilizado previo a la compra de los transformadores. Incluya nota al efecto en los planos de diseño.

9. **Este proyecto contempla el uso de una planta eléctrica de emergencia común para los servicios independientes propuestos para el edificio. Incluya detalle de la instalación y servicio desde el generador de emergencia a los clientes. <u>Cumplir cabalmente con el comunicado AEE 05-02, 05-03 y 06-03 (edificios) según apliquen.</u>**

10. **Previo a energizar el proyecto, el dueño o su representante deberá someter certificación de cumplimiento del Artículo B, Inciso 1 de la Sección IV del**

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**Reglamento Complementario del Código Eléctrico referente al concepto de <u>EDIFICIO</u>.**

*"El Código Eléctrico Nacional define el término edificio como una estructura que se sostiene por sí sola o que está separada o aislada de otras estructuras por paredes a prueba de fuego. La Autoridad aceptará tomas de servicio individuales para alimentar bancos de contadores o subestaciones en estructuras unidas que se consideren edificios siempre y cuando se cumplan cada una de las siguientes condiciones:*

a. *Cada módulo deberá tener una <u>pared (o paredes) a prueba de fuego que lo separe de los demás</u>. El proponente deberá someter evidencia de que dicha pared es a prueba de fuego.*
b. *Una toma servirá cada módulo mediante un banco de metros o subestación según sea el caso. La toma de un módulo no podrá cruzar a través de otro módulo.*
c. *No podrá existir interconexión entre el servicio eléctrico de un módulo y otro, a excepción de áreas comunes según descrito en el inciso e.*
d. *<u>Los módulos no podrán tener escaleras comunes ni pasillos que comuniquen uno con otro.</u>*
e. *De la subestación o banco de metros de un módulo se podrán servirlas áreas comunes de otros módulos tales como escaleras, pasillos, etc., mediante la instalación de un metro para medir su consumo."*

11. **Toda construcción de líneas de distribución en el desarrollo de nuevas urbanizaciones, centros y áreas comerciales, industriales y toda lotificación deberá realizarse de forma <u>SOTERRADA</u> de acuerdo con el COMUNICADO TECNICO 12-01. Incluya detalles en los planos de diseño. <u>Cualquier excepción a esta regla deberá ser solicitada por escrito.</u>**

12. **El dueño del proyecto es responsable de cumplir con los requisitos establecidos en el Reglamento de Servidumbre de la AEE con relación a las nuevas servidumbres a establecerse o constituirse como parte del proyecto y a las servidumbres asociadas a instalaciones eléctricas existentes en el área del proyecto.**

13. **Mostrar las líneas eléctricas a tránsito y respetar las servidumbres de paso de aquellas que pasen por el proyecto.** Deberá ilustrarse claramente en los planos el límite de las áreas públicas como carreteras, caminos y accesos. Las líneas eléctricas y aditamentos que afectan el proyecto deberán ilustrarse con su respectiva servidumbre. Debe observarse un ancho de servidumbre de 10 pies, 5 pies a cada lado del eje central de las líneas primarias y secundarias así como10 pies de ancho por un mínimo de largo igual a la distancia entre la estructura y el ancla del tensor. Para líneas soterradas el ancho de servidumbre es de 5 pies, 2.5 pies a cada lado del eje central. Toda porción de la servidumbre de las facilidades eléctricas que ubique fuera de los espacios públicos afectando a lotes

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existentes y propuestos deberá marcarse como servidumbre a inscribir. Deberá indicar los propietarios afectados. Los planos para la constitución de servidumbres de paso deben ser firmados y sellados por un Agrimensor Licenciado o un Ingeniero Licenciado RPA, autorizado a ejercer la profesión de la agrimensura en Puerto Rico (Secc. IV, Art. C – 1j).

14. El dueño del proyecto aportará a la AEE **$1,100.^{00}** para realizar mejoras al sistema eléctrico. **El cómputo de la aportación está basado en 100 kVA solicitados al cargo base correspondiente. Cualquier cambio en la carga solicitada requerirá una nueva evaluación y cómputo de la aportación.** Incluya nota especial al efecto en los planos de diseño.

15. La aportación económica aplicable y el costo estimado por concepto de trabajos a realizarse por la AEE especificados en esta evaluación, se acreditarán a las cuentas ***CIG-419.06 y CIS-419.05*** respectivamente. El pago deberá realizarse en la Oficina Comercial más cercana con dos meses de anticipación al comienzo del proyecto y podrá ser en efectivo, giro o cheque certificado. Incluya nota al efecto en los planos de diseño.

16. La radicación de los planos finales del proyecto deberá incluir cómputos de carga y las coordenadas Lambert correspondientes a la ubicación del proyecto. Las coordenadas deberán aparecer impresas en el plano a ser radicado, bajo el esquema de localización (1:20,000) y la copia de este en formato dwg deberá estar georeferenciado según estas coordenadas. **Deberá cumplir cabalmente con el Comunicado Técnico 08-05**.

17. El dueño del proyecto o su representante deberá notificarle a la Sección de Inspecciones de AEE Ponce el comienzo de la obra previo a los trabajos eléctricos del proyecto para la requerida inspección, aprobación y coordinación necesaria. Incluya nota al efecto en los planos de diseño.

18. Al someter los planos para endoso, incluya la resolución vigente de la Oficina de Gerencia de Permisos. Se requerirá una nota que estipule que el plano coincide con el sometido ante la OGPe, haciendo referencia al número de caso de dicha oficina.

19. La AEE no suplirá servicio de energía eléctrica a ningún proyecto con bases para múltiples contadores o medidores, hasta que el dueño del proyecto presente el permiso expedido para este tipo de uso por la Oficina de Gerencia de Permisos. Refiérase al COMUNICADO 04-01 para más detalles sobre este particular. Se requerirá incluya nota especial al respecto, en los planos de diseño para los casos que apliquen.

20. Todo plano a presentarse para endoso de la AEE deberá cumplir con **todos** los documentos requeridos por la Autoridad según se especifica en el COMUNICADO 15-01. Además, deberá incluir las *Notas Generales* según se estipula en el COMUNICADO 09-03. Todo proyecto que no cumpla con estas disposiciones no

*"Somos un patrono con igualdad de oportunidades en el empleo y no discriminamos por razón de raza, color, sexo, edad, origen social o nacional, condición social, afiliación política, ideas políticas o religiosas; por ser víctima o ser percibida víctima de violencia doméstica, agresión sexual o acecho; por impedimento físico, mental o ambos o condición de veterano."*

será evaluado para endoso y será devuelto al solicitante hasta tanto cumpla con estos requisitos.

21. Esta evaluación del punto de conexión no constituye una revisión al plano del proyecto. El diseñador es responsable de cumplir con los códigos, reglamentos, manuales, estándares y normas aplicables vigentes para los sistemas eléctricos en Puerto Rico. Además, deberá cumplir con los Reglamentos de Ordenación de la Infraestructura en el Espacio Público, según exigido por la Oficina de Gerencia de Permisos (OGPe). El diseñador de la fase eléctrica tiene que ser un ingeniero o arquitecto licenciado y colegiado, autorizado en ley para ejercer su profesión en Puerto Rico.

22. Esta evaluación tiene vigencia de un año a partir de la fecha de expedición.

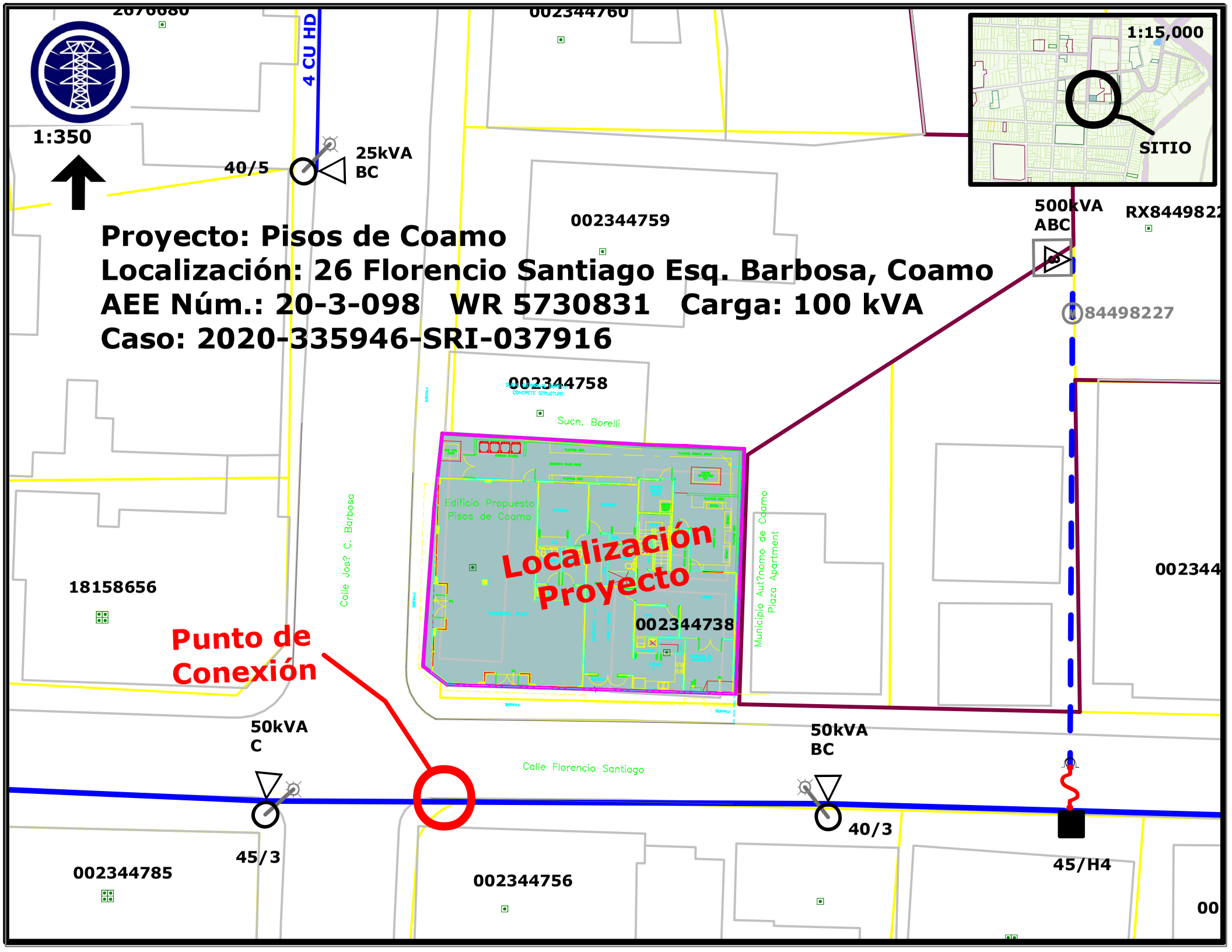
Atentamente,

Eduardo Rodríguez
Ingeniero Supervisor

Anejos

c Ing. José L. Pérez Berenguer
*pbasoc@msn.com*

*"Somos un patrono con igualdad de oportunidades en el empleo y no discriminamos por razón de raza, color, sexo, edad, origen social o nacional, condición social, afiliación política, ideas políticas o religiosas; por ser víctima o ser percibida víctima de violencia doméstica, agresión sexual o acecho; por impedimento físico, mental o ambos o condición de veterano."*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4 CU HD
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25kVA
BC
002344760
002344759
1:15,000
SITIO
500kVA
ABC
RX8449822
84498227
Proyecto: Pisos de Coamo
Localización: 26 Florencio Santiago Esq. Barbosa, Coamo
AEE Núm.: 20-3-098 WR 5730831 Carga: 100 kVA
Caso: 2020-335946-SRI-037916
002344758
Sucn. Borelli
Edificio Propuesto
Pisos de Coamo
Localización
Proyecto
002344738
Calle Jos? C. Barbosa
Municipio Aut?nomo de Coamo
Plaza Apartment
18158656
Punto de
Conexión
50kVA
C
50kVA
BC
Calle Florencio Santiago
45/3
40/3
45/H4
002344785
002344756
002344

GOBIERNO DE PUERTO RICO
Departamento de Desarrollo Económico y Comercio
Oficina de Gerencia de Permisos

**Número de Caso:**
**2019-295028-PCOC-014958**

# Notificación de Requisitos para Aprobación de Permiso de Construcción

Pisos de Coamo

## Datos de Localización

### Dirección Física

26 CALLE FLORENCIO SANTIAGO
, Coamo, Puerto Rico

### Número(s) de Catastro

345-033-046-09

### Materiales de Construcción

Hormigón Armado y Bloques

### Área

Cabida de los desarrollos: 445.54 m²

Área Bruta de Construcción: 11790.23 p²

### Dueño

Municipio de Coamo

### Proyectista

Ingeniero  José Luis Pérez Berenguer Lic. No. 12673

### Tipo de Solicitud

Nueva

### Estimado de Costo de la Obra ($USD)

Costo Estimado (Original) $756,202.26

## Asunto

Proyecto mixto comercial y residencial

## Requerimientos

Estimado(a) :Ingeniero  José Luis Pérez Berenguer Lic. No. 12673

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.

## Condiciones Especiales

NINGUNA

## Aviso

# Notificación de Requisitos para Aprobación de Permiso de Construcción

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 dos años, a partir de la fecha de expedición.

## Firma / Sellos

### Fecha de Expedición:
13/10/2021

Ing. Gabriel Hernández
Secretario Auxiliar
Departamento de Desarrollo Económico y Comercio de Puerto Rico
Oficina de Gerencia de Permisos

SBP SINGLE BUSINESS PORTAL